





VRV, Purpose-built to support the decarbonisation of commercial buildings



What's new?





BLUEVOLUTION



VRV 5 heat recovery

REYA-A

p. 34 **NEW** Our sutainable hero



- > Top sustainability over the entire lifecycle thanks to
- lower GWP R-32 refrigerant
- market-leading real life seasonal efficiency
- high efficient 3-pipe heat recovery
- > Maximum design flexibility, thanks to Shîrudo Technology
- > Market-leading portfolio:
- Widest range of dedicated R-32 indoor units with no less than 8 different models
- integration of ventilation units to improve indoor air quality

Extension of VRV 5 indoor units

FXMA-A, FXHA-A, FXUA-A

p. 46 NEW Most complete range of specially designed indoor units for R-32 refrigerant



- > Extension with
- FXMA-A, high ESP and large capacity concealed ceiling unit up to 31.5 kW in heating
- FXHA-A, ceiling suspended unit, including new 50 class (5.6kW) model
- FXUA-A, unique 4-way blow ceiling suspended unit, including new 50 class model and intelligent sensors
- EKVDX-A, DX coil for post treatment of fresh air
- > Widest range of dedicated R-32 indoor units on the market







FXSA-A











Indoor unit control via Onecta app









NEW 50 class + ntelligent sensor

FXHA-A

FXMA-A

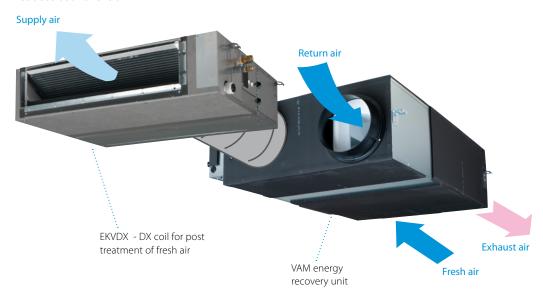
Fresh Air Treatment Unit

EKVDX-A

p. 172 **NEW** Post heating or cooling of fresh air to lower the load on the air conditioning system



- > Creates a high quality indoor environment by pre conditioning of incoming fresh air
- > Maximum installation flexibility thanks to separate DX coil
- > Fresh air flows from 500 up to 2,000 m³/h
- > High ESP up to 150 Pa
- > Can be integrated in both R-32/R-410A VRV systems
- > Replaces VKM-GB range, delivering increased capacity range and



CO₂ concentration visualisation

p. 170 NEW Real time CO₂ visualisation on Madoka controller



> For VAM-J8 units with optional BRYMA sensor connected



Astropure 2000 - Air Purifier for Commercial Applications

BR00000554, BR00000676, BR00000678

p. 182 NEW Plug & play, mobile recirculation unit with high efficiency filtration – for better indoor air quality in commercial spaces

- > For areas where additional, extra high, filtration
 - performance is needed. > Airflow rate up to 2,000 m³/h

 - > HEPA H14 filter in accordance with EN1822
 - > Optional UV germicidal irradiation (UVGI)
 - > Insulated double-wall construction provides whisper-quiet operation down to 35 dB(A)
 - > Easy installation, operation, and maintenance in a totally self-contained system
 - > For commercial areas up to 200m²







Now, more than ever, we all have a part to play in reducing our environmental impact. That's why Daikin is introducing the VRV 5 heat recovery unit with innovative new superpowers that make it a future-proof climate solution. Smarter and more responsive than ever – it offers you and your customers complete peace of mind.

The VRV 5 heat recovery unit is specifically designed for R-32 refrigerant. This reduces its $\mathrm{CO_2}$ equivalent impact thanks to a lower GWP, lower refrigerant charge and higher efficiency compared to R-410A systems. It also has completely redesigned Branch Selector boxes that require less ceiling height and have Shîrudo Technology built in.

Pioneering technology meets seamless sustainability

The good news for you as a Daikin partner? This all-in-one hero solution is as simple and flexible to install as any other VRV system, with all measures factory integrated. It's also easy to design and select, thanks to new software that ensures compliance with the latest product standards. What's more, you'll have access to an extensive network of expert support.

Help your customers reduce their CO₂ footprint now. Visit **www.daikin.eu/VRV5HR** to learn more about the VRV 5 heat recovery unit.











Maximum flexibility, minimum concern; As it should be.

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Building a sustainable legacy together

Air surrounds us all the time, and in fact our very existence depends on it. At Daikin, the future of the world's indoor air is our greatest concern.

Daikin envisions a world with healthier indoor air while reducing our environmental impact. Driven by a dedication to achieve net zero CO_2 emissions by 2050, we provide **safe**, **healthy and comfortable spaces** throughout the building life cycle using **world-leading technology**.

Building on our **long-term partnerships**, let's build together now to achieve our goals, protecting the health and wellbeing of every individual.

Supporting in decarbonization

We must act now to ensure we create a long-lasting legacy. As a company that values sustainability, we want to help to **decarbonize** buildings and create a **healthy** environment for generations to come.

Taking on the sustainable transformation, our solutions reduce the CO₂ footprint of buildings, whether they are new builds or renovations:

- Reducing CO₂ equivalents through lower GWP refrigerants such as R-32
- Maximizing sustainability over the entire life cycle, thanks to market-leading real life seasonal efficiencies
- Ensuring systems run efficiently 24/7 through smart controls
- Safeguarding natural resources

 by reusing existing refrigerant
 through L∞P by Daikin, turning
 waste into an asset

Building for the future

As market leaders in total solutions, we are constantly innovating to offer you a **comfortable**, **healthy and safe** environment, meeting your needs. Reliability, support and precision are characteristics of our future-proof products and services. We offer:

- A wide range of next-generation heat pumps to meet complex demands, including easy upgrading
- Expert indoor air quality solutions through our ventilation and filtration systems to eliminate pollutants and balance humidity levels

A journey we take together

Together we take on the sustainability journey. We provide expert **support** throughout the building life cycle and give **peace of mind** by ensuring what we do is **future-proof** and is helping to build a better future.

- Our team of experts, go beyond product support. Together we reach your green objectives.
- We are there for you, all the time: via our local customer support teams and e-commerce solutions.
- We're in it for the long term.
 We deliver what we commit to providing clear and trustworthy data.



reasons why VRV is unique in the market



Leader in sustainability

- NEW > VRV 5: Completely new and dedicated R-32 VRV design
 - Less refrigerant charge
 - Higher efficiency
 - Lower CO, equivalent
 - > L∞P by Daikin: the creation of a circular economy of refrigerants
 - Saves over 400,000 kgs of virgin refrigerant being produced every year
 - For all VRV units produced and sold in Europe*
 - * EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland







Efficiency

- > Variable Refrigerant Temperature for high seasonal efficiency
- > Round flow cassette and concealed ceiling units with auto cleaning filter
- > The best partner for your BREEAM, LEED or Well project







Comfort

- > Provide high Indoor Air Quality though seamless integration of AHU's (For VRV IV models)
- > Variable Refrigerant Temperature preventing cold draughts in cooling thanks to high outblow temperatures
- > True continuous heating during defrost
- > Presence and floor sensors direct the air flow away from persons, while ensuring an even temperature distribution
- > Auto cleaning filters to ensure optimum air quality



Reliability

- > Refrigerant cooled PCB
- > Most extensive testing before new units leave the factory
- > Widest sales network with all spare parts available in Europe
- > Preventive maintenance via Daikin Cloud Service
- > Auto cleaning filters to further enhance reliability thanks to clean air-filters
- > True technical cooling





Design

- > Widest ever range of cassette panels
- Available in white and black
- Sleek designer panel range
- > Daikin Emura, unique iconic design
- > Fully flat cassette, fully integrated in the ceiling



Controls

- NEW > Voice control via Amazon Alexa and Google Assistant through BRP069C51 Onecta app (For VRV 5 models)
 - > Madoka: a sleek wired remote controller with intuitive touch button control
 - > Intelligent Touch manager: A cost-effective mini BMS integrating all Daikin products
 - > Easy integration in third party BMS via BACnet, LonWorks, Modbus, KNX
 - > Dedicated control solutions for applications such as technical cooling, shops, hotels, ...
 - > Daikin Cloud Service for online control, energy monitoring, comparison of multiple sites and predictive maintenance



Installation

- > Automatic refrigerant charge and refrigerant containment check
- > Unique 4-way blow ceiling suspended cassette (FXUQ)
- > Plug & play Daikin Air Handling Unit
- > VRV configurator software for the fastest commissioning, configuration and customisation
- > Outdoor unit display for quick on-site settings and detailed error readouts for improved customer support





7-segment display

Inventor of VRV with nearly 40 years of history

- > Market leader of VRV systems since 1982
- > Over 90 years of expertise in heat pump technology
- > Designed for and produced in Europe
- > Innovator setting the market standard with technologies such as Variable Refrigerant Temperature, continuous heating, Shîrudo technology, ...





For every application a solution

- > Heat recovery for simultaneous cooling and heating
- > Maximum flexibility for geothermal applications with water-cooled systems
- > Hot and cold climate solutions offering efficient cooling up to 52°C and heating down to -25°C
- > Space saving mini VRV solutions, offering the most compact VRV
- > The invisible VRV, a unique solution when the outdoor unit must be compact and completely invisible
- > Replacement solutions to replace existing systems in the most cost-effective way



Which VRV

system offers me the best solution?

Heat recovery or heat pump? VRV Heat recovery

Additional credits for green building certificate



Extracted heat is used to deliver "free" heating and hot water (1)









- > Simultaneous heating **AND** cooling from one
- > "Free" heating and hot water production (1) by transferring heat from areas requiring cooling
- > Maximum individual comfort in all areas
- > Technical cooling down to -20°C
- > Running costs of VRV heat recovery system can be 30 to 40% lower compared to water fan coil system (2)

Components:



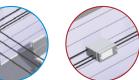
Outdoor unit



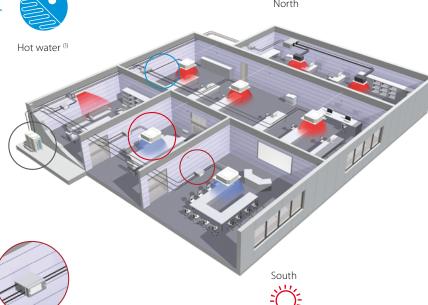
Indoor unit



3-pipe refrigerant piping



BS boxes: allows the individual switching of indoor units between heating and cooling



VRV Heat pump

> For either heating **OR** cooling operation from one system

Components:



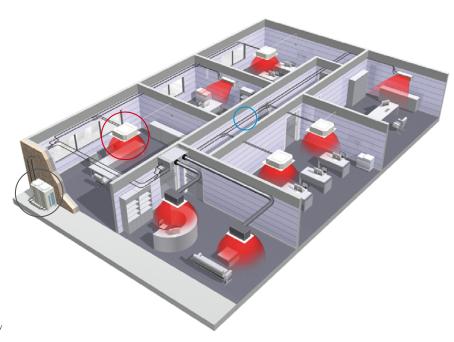
Outdoor unit



Indoor unit



2-pipe refrigerant piping



⁽¹⁾ Hot water hydrobox connection only in combination with VRV IV+ heat recovery (2) According to the Franklin + Andrews construction economics

Air cooled or water cooled? Air Cooled

- > Fast and easy to install; no need for additional components
- > Low maintenance costs
- > Operation range from 25°C~52°C
- > Can be installed both outdoors and indoors
- > Up to 54HP capacity for one system

Components:



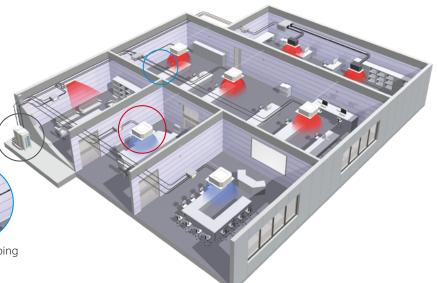
Outdoor unit



Indoor unit



Refrigerant piping



Water Cooled

- Suitable for high rise and large buildings because of the nearly unlimited possibilities of water piping
- > Not affected by outdoor temperature/climate conditions
- > Reduce CO₂ emmisions thanks to the use of geothermal energy as a renewable energy source
- > Allows heat recovery in the entire building thanks to the storage of energy in the water circuit
- > Lower refrigerant levels thanks to the limited distance between outdoor and indoor units

Components:



Indoor unit



Refrigerant piping



Outdoor unit



(Geothermal) water loop



VRV total solution

Typically, many buildings today rely on several separate systems for heating, cooling, air curtain heating and hot water. As a result energy is wasted. To provide a much more efficient alternative, VRV technology has been developed into

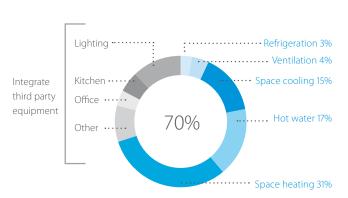
a total solution

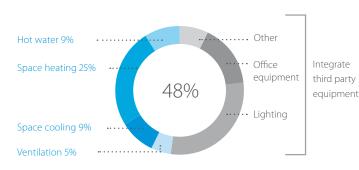
managing up to 70% of a buildings energy consumption giving large potential to cost saving

- Heating and cooling for year round comfort
- Domestic Hot Water produced in a efficient and environmental friendly way
- → Underfloor heating /cooling for efficient space heating/cooling
- Fresh air ventilation for high quality environments
- Air curtains for optimum air separation
- Controls for maximum operating efficiency
- Cooling for server rooms, telecom shelters, ... via VRV heat recovery or Sky Air units
- Refrigeration via our VRV based refrigeration units

Average hotel energy consumption

Average office energy consumption





Offices Efficiency in the workplace

"Modern design in harmony with the interior."

Architect



Hotel

Meet every guest's comfort expectations

"With Daikin we could perfectly combine the authenticity of the hotel with the latest technology and comfort."

Owner of a 5-star hotel



Shops Reducing retail costs

"Together with Daikin's technical team we have optimised the design of our HVAC system, reducing investment resources and operational costs. Daikin has offered us access to the most up to date technology."

Retail shop representative



Residential

There is no place like home

"Unparalleled comfort, with minimal energy consumption from the best heat pump technology."





VRV

benefits & technologies

VRV benefits	15
Drastically reducing your running costs	16
Top reliability	20
Comfort guaranteed at all times	22
Great design flexibility	24
Fast installation and commissioning,	
easy servicing	26

Drastically reducing running costs

- (+) Innovative technologies to offer market-leading efficiencies
- (+) Flexibility to meet the building load at the highest efficiency

BLUEVOLUTION

Introducing R-32 refrigerant on VRV5

- > Lower Global Warming Potential (GWP): only 1/3rd of R-410A
- Lower refrigerant charge: 15% less compared to R-410A
- > Higher energy efficiency
- Single component refrigerant, easy to handle and recycle



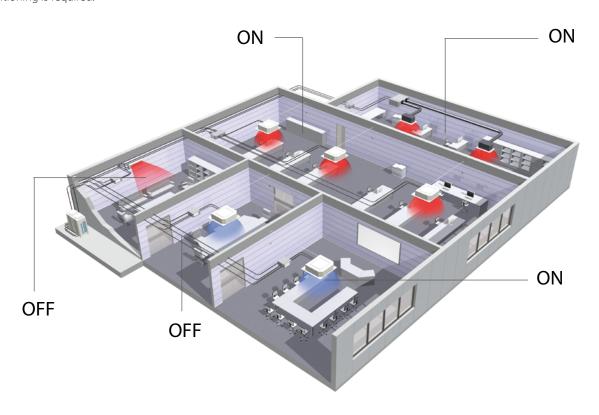
Potential global warming impact

potential global warming impact

Precise zone control

VRV systems have low running costs because it permits each zone to be controlled individually.

That is, only those rooms that require air conditioning will be heated or cooled, while the system can be shut down completely in rooms where no air conditioning is required.





Variable refrigerant temperature

The biggest leap since the inverter compressor

Thanks to its revolutionary variable refrigerant temperature technology (VRT), VRV continuously adjusts both the inverter compressor speed and the refrigerant temperature in cooling AND heating, providing the necessary capacity to meet the building load with the highest efficiency at all times!

- > Seasonal efficiency increased by 28%
- > The first weather accommodating control on the market
- Customer comfort is assured thanks to higher outblow temperatures (preventing cold draughts)

How does it work?

VRF standard

Capacity is controlled only with the variation of the inverter compressor.

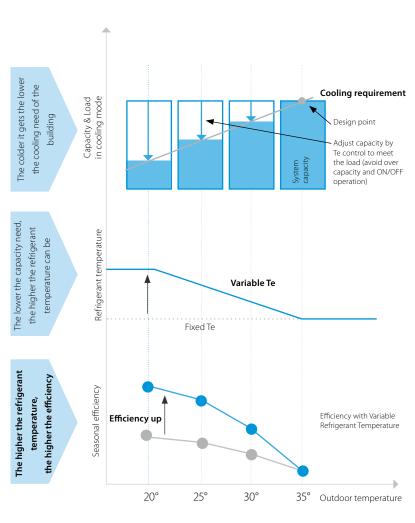
Daikin VRV

Variable Refrigerant Temperature control for energy saving in partial load condition.

The capacity is controlled by the inverter compressor and variation of the evaporating (Te) and condensing (Tc) temperature of the refrigerant in order to achieve the highest seasonal efficiency.

Evaporating temperature can vary between 3 and 16° which is the widest on the market.

Variable Refrigerant Temperature



Success story Real test: up to 46% less energy consumed

A field trial was carried out in a shop of a fashion chain in Germany and showed that the innovative Daikin VRV IV delivers dramatically better energy efficiency compared with previous models.

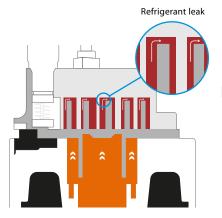
The trial results showed that the new VRV IV system consumed up to 60% less energy than the VRV III system, particularly during cooling. Overall energy savings during heating averaged 20%.

37 patents

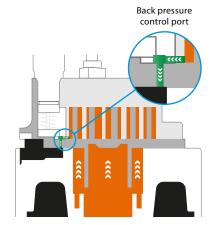
Inverter scroll compressor with back pressure control

- > Pressure port increases pressure below the scroll in low load operation, preventing refrigerant leak from the high to low pressure side
- > Increased partial load efficiency





During low load, weak pressure is applied resulting in refrigerant leakage.

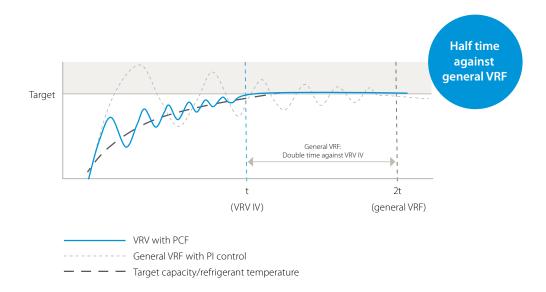


The back pressure control port sends high pressure refrigerant to the back of the scroll ensuring optimum pressure on the scroll.

Predictive Control Function (PCF)

- > Reaching targets faster
- > Reaching targets without overshooting, so there is no waste, resulting in improved efficiency

The large number of Daikin systems already in operation and which are monitored by our Daikin Cloud Service put us in the unique position of being able to analyse this data and develop the predictive control function.



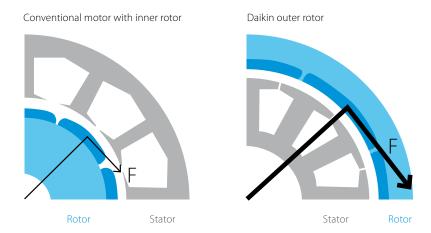
DC fan motor

Outer rotor DC motor for higher efficiency

- > Larger rotor diameter results in greater force for the same magnetic field, leading to better efficiency
- > Better control, resulting in more fan steps to match the actual capacity

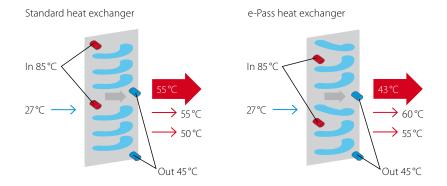
Sine wave DC inverter

Optimizing the sine wave curve results in smoother motor rotation and improved motor efficiency.



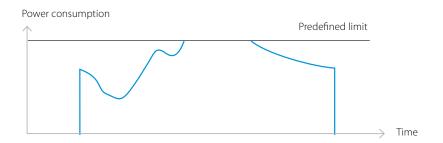
E-Pass heat exchanger

Optimising the heat exchanger's path layout prevents heat being transferred from the overheated gas section to the sub-cooled liquid section which is a more efficient way to use the heat exchanger.



I-demand function

Limit maximum power consumption. The newly introduced current sensor minimizes the difference between the actual power consumption and the predefined power consumption.



Top reliability

- + Most extensive testing before new units leave the factory
- + Designed to perform

Duty Cycling extends operation life

The cyclical start-up sequence of multiple outdoor units systems equalises compressor duty and extends operating life.



Back-up function

In the event of a compressor malfunction another compressor or outdoor unit will take over in order to maintain 8 hour interim capacity, allowing time for maintenance or repair while comfort remains guaranteed.



Auto-cleaning filters

Auto cleaning filters enhance reliability thanks to clean air filters all the time.

Additionally clean filters reduce running costs and improve indoor air quality.



Refrigerant-cooled PCB

- Reliable cooling because it is not influenced by ambient air temperature
- Smaller switchbox for smoother air flow through the heat exchanger increasing heat exchange efficiency with 5%



Sequential Start

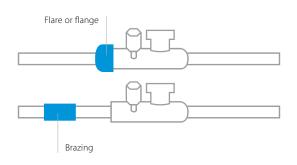
Up to 3 outdoor units can be connected to 1 power supply and can be turned on sequentially. This allows the number of breakers and their capacities to remain small and simplifies wiring (for models of 10HP or less).



Only brazed connections

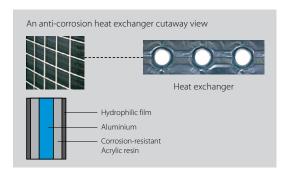
All flange and flare connections inside the unit have been replaced by brazing connections to ensure improved refrigerant containment.

Also the connection of the outdoor in the main pipe is brazed.



Anti Corrosion Treatment

Special anti corrosion treatment of the heat exchanger provides 5 to 6 times greater resistance against acid rain and salt corrosion. The provision of rust proof steel sheet on the underside of the unit gives additional protection.

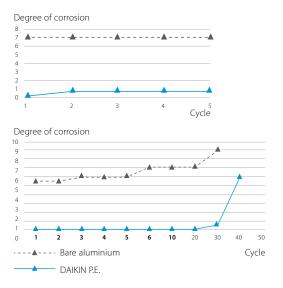


Performed tests:

- > VDA Wechseltest
- > Contents of 1 cycle (7 days):
- > 24 hours salt spray test SS DIN 50021
- > 96 hours humidity cycle test KFW DIN 50017
- > 48 hours room temperature & room humidity testing period: 5 cycles

Kesternich test (SO2)

- > contents of 1 cycle (48 hours) according to DIN50018 (0.21)
- > testing period: 40 cycles



Comfort guaranteed

at all times

Continuous heating during defrost mode

VRV continues to provide heating even when in defrost mode, providing an answer to any perceived disadvantages of specifying a heat pump as a monovalent heating system.

- > Continuous indoor comfort ensured by the heat accumulating element and alternate defrost
- > An innovative alternative to traditional heating systems

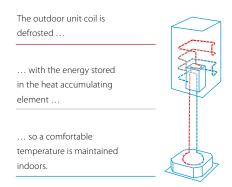


How does it work? UNIQUE Heat accumulating element

For the VRV IV+ heat pump single unit systems a unique heat-accumulating element is used. This element, based upon phase change material, provides the energy to defrost the outdoor unit.

Alternate defrost

On all our multi unit systems only 1 outdoor coil is defrosted at a time, ensuring continuous comfort during the whole process.



Available on: RYYQ8-20U Water cooled VRV has no defrost cycles







the outdoor unit coil is defrosted ...

- ... one at the time ..
- ... so a comfortable temperature is maintained indoors

Available on: REYA10-28A, REYQ10-54U, RYYQ16-54U, RXYQQ16-42U and RQCEQ280-848P3

Smart Control brings comfort

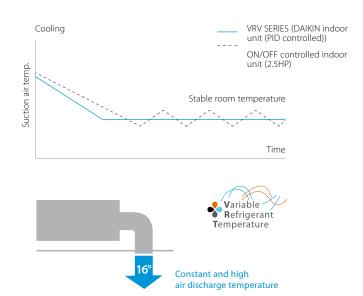
Stable room temperature

An electronic expansion valve continuously adjusts the refrigerant volume in respond to load variations of the indoor units. The VRV system thus maintains comfortable room temperatures at a virtually constant level, without the temperature variations typical of conventional ON/OFF control systems.

Note: the graph shows the data, measured in a test room assuming actual heating load. The thermostat can control stable room temperature at $\pm~0.5^{\circ}\text{C}$ from set point.

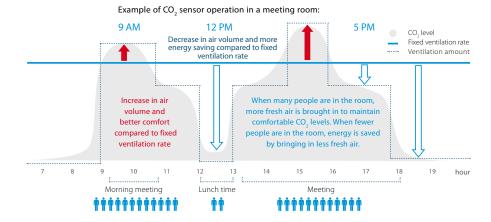
No more cold draught

Automatic or manual adjustment of refrigerant temperature leads to higher outblow temperatures which avoid the cold draught coming from the indoor unit.



Ensure optimal IAQ using CO₂ sensors

Enough fresh air is needed to create an enjoyable environment, but ventilating constantly is leading to energy waste. Therefore an optional CO₂ sensor regulates the ventilation system to provide the needed fresh air to the room, avoiding over-ventilation and saving energy.



Low operation sound level



Whisper quiet indoor units

Daikin indoor units have very low sound operation levels, **down to 19dB(A)**, making them ideal for sound sensitive area's as hotel bedrooms, etc.



Connectable to RYYQ-U, RXYQ-U, RXYSCQ-TV1, RXYSQ-TV9/TY9, RXYLQ-T, RWEYQ-T9

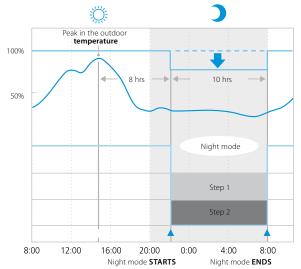
Connectable to all VRV heat pumps

Outdoor unit sound reduction

For areas where there are stringent limitations to sound levels, the outdoor unit sound level can be automatically reduced to meet the requirement.

To manually set set the time for low noise operation you can use the external control adaptor DTA104A61/62/53.





Example for VRV IV heat pump, factory setting.

Sound enclosure for VRV5

EKLN140A

- > Sound reduction up to -10 dB(A) on Sound Power values
- > Dedicated Daikin option for VRV 5 RXYSA
- > Fully optimized and tested in Daikin Factory for guaranteed performance
- Very low capacity and pressure drop thanks to separated air intake and discharge
- > Fast and easy installation & servicing

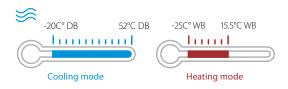


Great design flexibility

Wide operation range

Air cooled

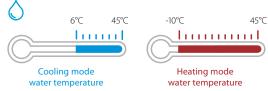
The VRV system can be installed practically anywhere. VRV air cooled outdoor units can cool between -20°C BD and +52°C DB outdoor ambient and can be used as monovalent heating system between -25°C WB and +15.5°C WB.



With the technical cooling function, the operation range in cooling of the VRV IV+ heat recovery system is extended from -5°C to -20°C, making it perfect for integrating server rooms.

Water cooled

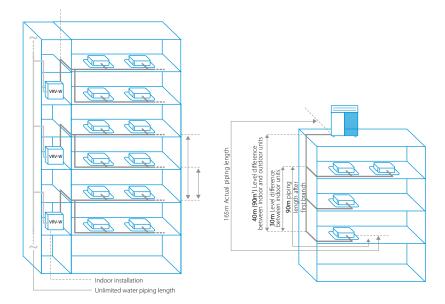
Standard water cooled outdoor units operation between 10°C and 45°C for both heating and cooling. In geothermal mode, the operation range is extended to -10°C* during heating and 6°C during cooling. These units are not influenced by external conditions and function well in extreme climates.



* Ethylene glycol should be added to the water when the water inlet temperature is below 5°C.

Flexible piping design

The long piping lengths, high level differences and small refrigerant piping allows for a design with little limitations and leaving maximum space for lettable space.



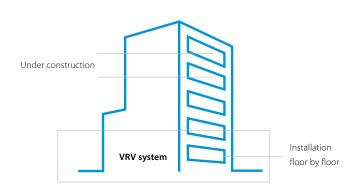
Example

	Air cooled	Water cooled
Total piping length	1000 m	500 m
Longest length actual (Equivalent)	165 m (190 m)	165 m (190 m)
Longest length after first branch	90 m¹	40 m (90 m ¹)
Level difference between indoor and outdoor units	90 m¹	50 m (40 m²)
Level difference between indoor units	30 m	30 m

¹Contact your local dealer or consult technical literature for more information and restrictions

Phased installation

Installation of the VRV system can be implemented floor by floor, so that sections of the building can be put into use very quickly, or enabling the air conditioning system to be commissioned and operated in stages, rather than on final completion of the project.



² In case outdoor unit is located below indoor units

Indoor installation

Air cooled

Standard outdoor unit installed indoors

The VRV optimised fan blade shape increases output and reduces pressure loss. Together with the **high ESP setting (up to 78.4 Pa)**, it makes VRV outdoor units ideal for indoor installation using ducts.

VRV IV i-series heat pump for indoor installation

The ultimate and unique solution from Daikin is to use the VRV IV i-series. This unit is optimised for indoor installation and is the most flexible solution, without the need for a large technical room to put the outdoor unit and it is complete invisible!



More details on page 90

Water cooled

- Seamless integration in the surrounding architecture as you cannot see the unit
- Highly suited for sound sensitive areas as there is no external operation sound
- Superior efficiency, even in the most extreme outside conditions, especially in geothermal operation







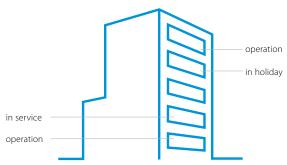
Multiple tenants, one outdoor unit

The multi tenant function ensures that the entire VRV system does not shut down when the main power supply of an indoor is switched off.

This means that the indoor unit's main power supply can be turned off when a part of the building is closed or is being serviced without affecting the rest of the building.

2 solutions according to the needs:

- Service setting, without additional hardware: for service execution within 24 hours
- > PCB option: when tenants leave for a longer period (holiday) and the main power supply is shut down



Compact and light

No structural reinforcement necessary

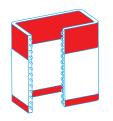
Thanks to the vibration-free and sufficient light construction of the outdoor units, floors do not need to be reinforced, reducing the overall cost of the building.



maximum 378 kg for a 20HP unit

4-sided, 3-row heat exchanger

Thanks to the large surface of the heat exchanger (up to 235 m²) VRV units are compact, light and highly efficient.



surface up to 235 m²

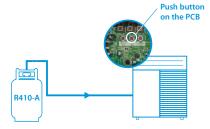
Fast installation and commissioning

Easy servicing

Automatic charging & testing



After charging, pushing the test operation button initiates a check on the wiring, shut off valves, sensors and refrigerant volume.



If the temperature drops below 20°C* manual charging is necessary.

- * 10°C for heat pump for cold regions
- * Available on REYQ-U, RYYQ-U, RXYQ-U, RQYQ-P, RXYQQ-U, RQCEQ-P3



Easy compliance to F-gas regulation

No leak check requirement

For the majority of VRV 5 S-series no leak check is needed as the total CO₂ eq. of the system is below 5 tonnes (total charge up to 7.4 kgs).

Remote refrigerant containment check

For systems with a total CO₂ eq. above 5 tonnes the refrigerant containment check can be done remotely via the intelligent Touch Manager.



Remotely set the time and start the refrigerant containment check when it is most convenient for you.



Connect to customer site via internet or 3G increasing customer satisfaction as there is no disruption to the air conditioning during business hours.



Check the report once the check has been done.

Available on REYQ-U, RYYQ-U, RXYQ-U. Next to remote checking, the function can also be activated on-site via a push button on the PCB.

When activating the refrigerant containment check, the unit switches into cooling mode and duplicates certain reference conditions based on memory data. The result indicates whether or not refrigerant leakage has occurred.

The refrigerant volume of the complete system is calculated based on the following data:

- > Outdoor temperature
- Reference system temperatures
- > Reference system pressures
- > Refrigerant density
- > Types and number of indoor units

7-segment display

for quick and accurate error diagnosis

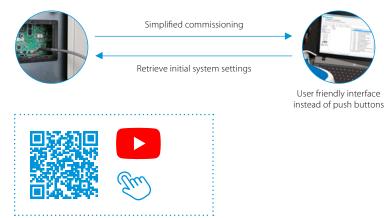
Outdoor unit display for quick on-site settings and easy read out of errors together with the indication of service parameters for checking basic functions.



VRV Configurator

Software for simplified commissioning, configuration and customisation

- > Graphical interface
- Manage systems over multiple sites in exactly the same way
- > Retrieve initial settings



7 segment display and configurator available on: REYA-A, REYQ-U, RYYQ-U, RXYQ-U, RXYQQ-U. Only configurator available on: RXYSA-AV1/AY1, RXYSCQ-TV1, RXYSQ-TV9/TY9/TY1, SB.RKXYQ-T(8).

Compact design

The compact design of the outdoor units is sufficient to allow them to be taken up to the top of a building in a commercial elevator, overcoming site transportation problem, particularly when outdoor units need to be installed on each floor.

Daikin unified REFNET piping

The unified Daikin REFNET piping system is designed for simple installation.

Daikin Europe N.V. advises only to use Daikin REFNET piping system.













REFNET header

Easy wiring - "Super Wiring" System

Simplified wiring

Shared use of wiring between indoor units, outdoor units and centralised remote control

- > Easy retrofit of centralised remote control
- > Impossible to make incorrect connections thanks to non polarity wiring
- > Sheated wire can be used
- > Unique total wiring length up to 2,000 m

Cross wiring check

The cross wiring check function warns operatives of connection errors in inter unit wiring and piping.

Auto Address Setting Function

Allows wiring between indoor and outdoor units, as well as group control wiring of multiple indoor units, to be performed without the bothersome task of manually setting each address.

* auto adress setting fuction is not available for centralized operation





Continuing our path to lower CO₂ equivalent solutions



BLUEVOLUTION

R-32

Advantages of R-32

- R-32 refrigerant has a lower Global Warming Potential and higher efficiency compared to R-410A, making it the most effective sustainable solution for VRF systems today, greatly reducing the indirect CO₂ eq. impact and your ecological footprint.
- > R-32 also has a 15% lower refrigerant charge than R-410A and being a single component refrigerant it is easy to recover and reuse.

Support the decarbonisation of commercial buildings



Market-leading seasonal efficiency makes VRV5 more sustainable over it's entire lifecycle, reducing the indirect CO₂ eq. impact



Specifically built for lower GWP R-32 refrigerant, greatly reducing the reducing the potential direct CO₂ impact with 71% compared to R-410A systems



The perfect partner for BREEAM, LEED and other green building schemes

Ultra-flexible climate control



Known R-410A piping flexibility to tackle any building



Widest range of dedicated R-32 indoor units on the market



Integrates HRV ventilation units



Connectable to all known Daikin smart controls, including Onecta app



5 low sound steps



High ESP fans allowing concealed installation



Shîrudo Technology truly sets VRV 5 apart

- > Complete peace of mind as Daikin ensures compliance to the IEC product standard for indoor units
- > Factory-integrated refrigerant control measures make the VRV 5 quick and flexible to design without the need for complex and time consuming calculations
- > For stress free design of any commercial building, validate your project in our Xpress software, featuring floor plan integration



VRV 5 outdoor unit overview

Capacity class (kW)

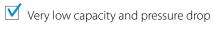
Model	Product name		4	5	6	8	10	12	14	16	18	20	22	24	26	28	VRV indoor units	Residential indoor units	Hydrobox	HRV units VAM	HRV units EKVDX	AHU connection	Remarks
> Reduced CO, equivals thanks to the use of Is GWP refrigerant R-32 > Top sustainability over the entire lifecycle NEW & UNIQUE VRV 5 heat VRV 5 heat Value VRV 5 heat VRV 5 heat Value VRV 5 heat VRV 5 heat	REYA-A					•	•	•	•	•	•	•	•	•	•	•	0				0		
> Reduced CO, equivale thanks to the use of logWP refrigerant R-32 Top sustainability over the entire lifecycle VRV5 Unique low -height si fan range Tackle small room	wer RXYSA-	1~	•	•	•												0			0	0		> Standard total system connection ratio limit: 50 ~ 130%
Shîrudo technology		3~	•	•	•	22.4	20.0	22.5	400	45.0	50.4	560	<i>c</i> 15	- C1	72.5	70.5	0			0	0		total system connection ratio limit: 50 ~ 130%
Cooling Capacity Heating Capacity								33.5 37.5															

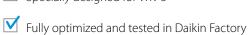
• Single unit, • Multi combination

Sound enclosure for VRV5 S-series

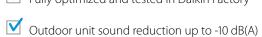








Fast & easy installation & servicing





Branch selector (BS box) overview

				C	apa	city	/ cla	ss (kW)
	Model		Product name		4	6	8	10	12
Multi port BS box		Unique range of Branch Selector boxes integrating Shîrudo Technology	BS- A14AV1B	77777	•	•	•	•	•



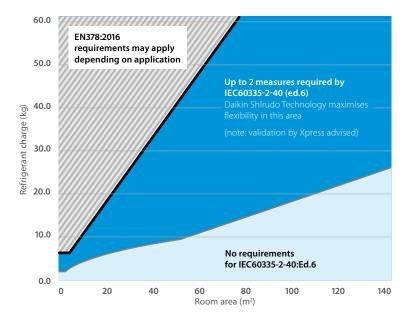
Did you know ...

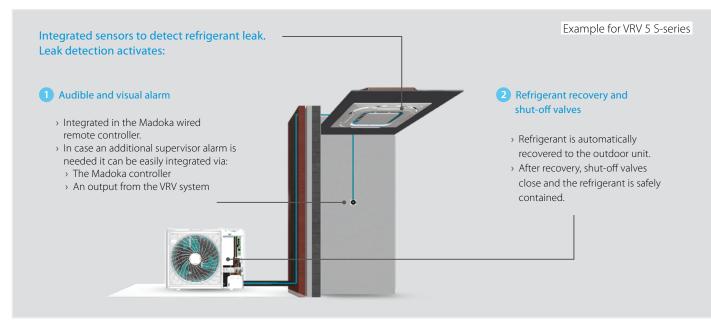
different standards regarding safety exist?

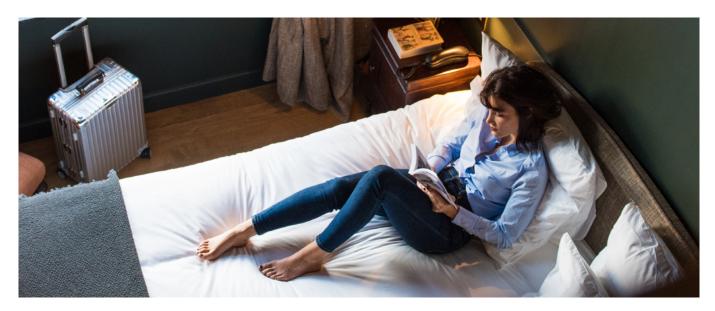
Refrigerants can be classified according to 2 safety groups:

- > Flammability (1, 2L, 2, 3): covered by the specific heat pump standard **IEC60335-2-40 (Ed. 6)** as it prevails over EN378:2016
- > Toxicity (A or B): covered by the generic standard on refrigerants **EN378:2016.**

Shîrudo Technology focuses on offering maximum flexibility within the IEC60335-2-40 (Ed.6) requirements as limitations for flammability of A2L refrigerants are stricter than the ones for toxicity.







Peace of mind



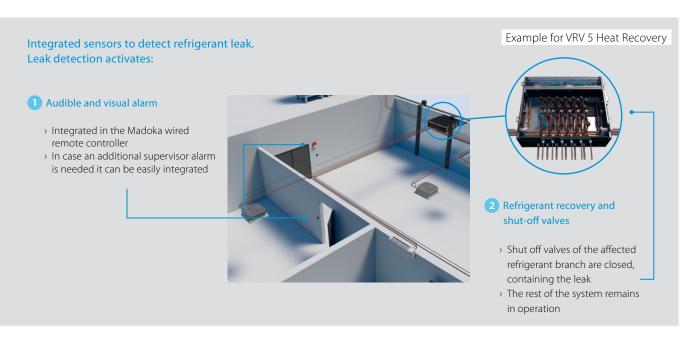
With Shîrudo Technology, Daikin ensures compliance to the product standard IEC60335-2-40 (Ed. 6) for indoor units. With factory-integrated refrigerant control measures, these systems are also the quickest and most flexible to design.

There is **no need for complex and time consuming calculations**, even for small room applications. And BSSV boxes come with a ventilated enclosure for quick and simple integration of any potential additional measures – making installation in demanding spaces easier than ever.

For stress free design of any commercial building, validate your project in our Xpress software, featuring floor plan integration.

Refrigerant control measures factory-integrated

Shîrudo Technology includes 2 factory measures and sensors built into a VRV 5 system.



Compliance taken care of

- > No study or calculations needed on where and how to install outdoor or indoor units.
- > No need for studies to decide if and what safety measures are required.
- > Third party CB certified by a notified body (SGS CEBEC).

Automatic, real time leak detection and refrigerant containment controls

- \rightarrow Fully compliant to product standard (IEC60335-2-40 (Ed.6)), reducing the risk of direct CO $_2$ eq. impact from a refrigerant leak.
- > Real time leak detection sensors, triggering refrigerant containment measures in the unlikely event of a leak
- > No leak check requirement for majority of VRV 5 S-series installations (up to 7,4 kg of refrigerant charge) and reduced intervals of leak check for bigger installations.

Check out the Shîrudo Technology video!



VRV 5 Heat Recovery

Greatly reducing the CO₂ footprint of buildings

- > Lower GWP R-32 refrigerant
- > Market-leading, real life seasonal efficiency
- > Highly efficient 3-pipe heat recovery

Maximum design flexibility

- > Installation in rooms down to 10 m² without any additional measures thanks to **Shîrudo technology**
- > Easy to select thanks to VRV Xpress floorplan support
- Completely redesigned BSSV boxes for faster installation and easier servicing

Market-leading portfolio

- > Widest range of dedicated R-32 VRV outdoor and indoor units in the market!
- > Control IAQ with integration of ventilation units

Advantages

of 3-pipe technology

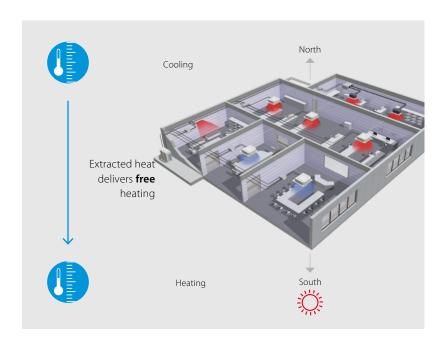
"Free" heat available

An integrated heat recovery system reuses heat from offices and server rooms to warm other areas, minimizing heat waste

Maximum comfort

A VRV heat recovery system allows simultaneous cooling and heating.

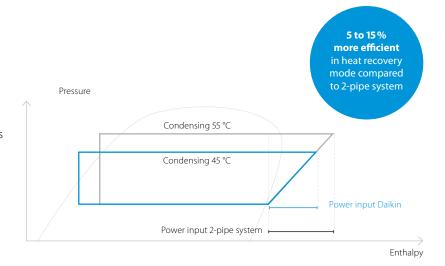
- > For hotel guests, this means they can freely choose between cooling or heating to create the perfect environment.
- > For offices, it means a perfect working indoor climate for both north and south-facing offices.



More "free" heat

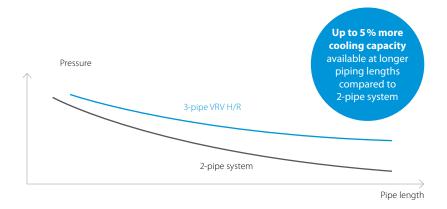
Daikin 3-pipe technology needs less energy to recover heat, meaning significantly higher efficiency during heat recovery mode. Our system can recover heat at a low condensing temperature because it has dedicated gas, liquid and discharge pipes.

In a 2-pipe system, gas and liquid travel as a mixture so the condensing temperature needs to be higher in order to separate the mixed gas and liquid refrigerant. The higher condensing temperature means more energy is used to recover heat resulting in lower efficiency.



Lower pressure drop means more efficiency

- Smooth refrigerant flow in 3-pipe system thanks to 2 smaller gas pipes results in higher energy efficiency
- Disturbed refrigerant flow in large gas pipe on
 2-pipe system results in larger pressure drop



VRV 5 Heat Recovery

Purpose-built to support the decarbonisation of commercial buildings

- Reduced CO₂ equivalent thanks to the use of lower GWP R-32 refrigerant and lower refrigerant charge
- > Single component refrigerant, easy to re-use and recycle
- > Greatest sustainability over the entire lifecycle, thanks to market leading real-life seasonal efficiency up to η_{sc} cooling: 324,5%
- > "Free" heating through efficient 3-pipe heat recovery, transferring heat from areas requiring cooling to areas requiring heating
- Tackle small room applications without any additional measures, thanks to Shîrudo Technology
- > Specially designed indoor units for R-32, ensuring low sound and maximum efficiency
- Simultaneous cooling and heating for the perfect personal comfort of guests/tenants
- > Like for like R-410A installation flexibility with piping lengths up to 165 meters and a total length of 1,000 meters
- > Smaller piping diameters reducing raw material use and cost
- > Sound pressure down to 40 dB(A) thanks to 5 low sound steps
- > ESP up to 78 Pa to allow ducting
- > Wide operation range of up to +46°C in cooling and down to -20°C in heating



Lower CO₂ equivalents



5 low sound steps

More details and final information can be found by scanning or clicking the QR codes.

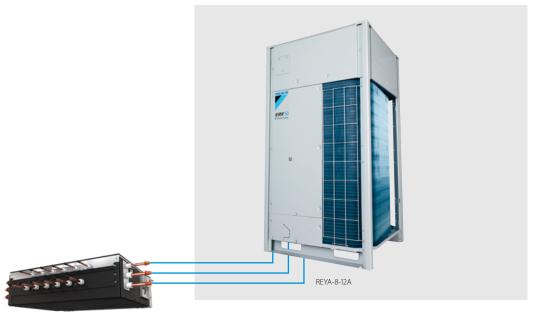




Outdoor unit			REYA	8A	10A	12A	14A	16A	18A	20A			
Capacity range			HP	8	10	12	14	16	18	20			
Recommended combination				4 x FXSA50A2VEB	4 x FXSA63A2VEB	6 x FXSA50A2VEB	1 x FXSA50A2VEB + 5 x FXSA63A2VEB	4 x FXSA63A2VEB + 2 x FXSA80A2VEB	3 x FXSA50A2VEB + 5 x FXSA63A2VEB	2 x FXSA50A2VEB + 6 x FXSA63A2VEB			
Cooling capacity	Prated,c		kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0			
Heating capacity	Prated,h		kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0			
	Max.	6°CWB	kW	25.0	31.5	37.5	45.0	50.0	56.5	63.0			
ηs,c			%	279.6%	271.7%	273.2%	298.3%	277.4%	274.8%	259.6%			
ηs,h			%	161.1%	170.4%	170.9%	162.2%	162.1%	170.0%	161.4%			
SEER				7.1	6	.9	7.5	7.0	6.9	6.6			
SCOP				4.1	4	.3	4	.1	4.3	4.1			
Maximum number	of connect	able indoor units					64						
Indoor index	Min.			100.0	125.0	150.0	175.0	200.0	225.0	250.0			
connection	Max.			260.0	325.0	390.0	455.0 520.0		585.0	650.0			
Dimensions	Unit	HeightxWidthxDepth	mm		1,685x930x765		1,685x1,240x765						
Weight					230		3	17					
Sound power level	Cooling	Nom.	dBA	78.3	78.8	82.5	78.7	83.7	83.4	87.9			
	Heating	Prated h	dBA	79.4	80.7	83.3 82.9		86.3	85.1	89.6			
Sound pressure level	Cooling	Nom.	dBA	56.3	58.0	60.8	58.1	64.4	62.9	66.6			
Operation range	Cooling	Min.~Max.	°CDB	-5.0~+46.0									
	Heating	Min.~Max.	°CWB	-20.0~+15.5									
Refrigerant	Type/GWI)		R32 / 675									
	Charge		kg/TCO2Eq		9.0 / 6.08			10.6 / 7.16					
Piping connections	Liquid	OD	mm	9.	52			12.7					
	Gas	OD	mm	19	9.1	22.2 28							
	OD	mm	15	15.9 19.1 22.2									
	Total piping length	g System Actual	m	1,000									
Power supply	Phase/Fre	quency/Voltage	Hz/V	3N~/50/380-415									
Current – 50Hz	Maximum	fuse amps (MFA)	Α				-						







Completely redesigned BSSV boxes for faster installation and easier servicing (see page 466)



Outdoor unit Syst	em		REYA	10A	13A	16A	18A	20A	22A	24A	26A	28A
System	Outdoor	unit module 1		REM	A5A		REYA8A		REYA10A	REYA8A	REY	A12A
	Outdoor	unit module 2		REMA5A	REY	/A8A	REYA10A	REY	′A12A	REYA16A	REYA14A	REYA16A
Capacity range			HP	10	13	16	18	20	22	24	26	28
Recommended cor	mbination							-				
Cooling capacity	Prated,c		kW	28	36.4	44.8	50.4	55.9	61.5	67.4	73.5	78.5
Heating capacity	Prated,h		kW	28	36.4	44.8	50.4	55.9	61.5	67.4	73.5	78.5
	Max.	6°CWB	kW	32.0	41.0	50.0	56.5	62.5	69.0	75.0	82.5	87.5
ηs,c			%					-				
ηs,h			%									
SEER												
SCOP												
Maximum number	of connect	table indoor units						64				
Indoor index	Min.			125.0	163.0	200.0	225.0	250.0	275.0	300.0	325.0	350.0
connection	Max.			325.0	423.0	520.0	585.0	650.0	715.0	780.0	845.0	910.0
Piping connections	Liquid	OD	mm	9.52				1	2.7			
	Gas	OD	mm	19.1		22.2				28.6		
	HP/LP gas	s OD	mm	15.9		19.1				22.2		
	Total piping length	g System Actual	m					1,000				
Power supply	Phase/Fre	equency/Voltage	Hz/V				3N	l~/50/380-	415			
Current – 50Hz	Maximum	n fuse amps (MFA)	Α					-				
Outdoor unit mod	lule		REMA					5A				
Dimensions	Unit	HeightxWidthxDepth	mm				1,	685x930x7	65			
Weight	Unit		kg					230				
Sound power level	Cooling	Nom.	dBA					78.3				
	Heating	Prated h	dBA					79.4				
Sound pressure level	Cooling	Nom.	dBA					56.3				
Operation range	Cooling	Min.~Max.	°CDB					-5.0~46.0				
	Heating	Min.~Max.	°CWB					-20.0~15.5				
Refrigerant	Type/GW	P						R32 / 675				
	Charge		kg/TCO2Eq					9.0 / 6.08				
Power supply	Phase/Fre	equency/Voltage	Hz/V				3N	l~/50/380-	415			
Current – 50Hz	Maximum	n fuse amps (MFA)	Α					-				

Actual number of connectable indoor units depends on the indoor unit type and the connection ratio restriction for the system (50% \leq CR \leq 120%) | Contains fluorinated greenhouse gases| * EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland

Multi branch selector (BSSV) for VRV 5 Heat Recovery

Specifically developed for lower GWP R-32

- Reduced CO₂ equivalent thanks to the use of lower GWP R-32 refrigerant and lower refrigerant charge
- Unique range of multi BS boxes allowing efficient 3-pipe heat recovery
- No limitation on room size, thanks to **Shîrudo Technology** (1)
 The integrated shut-off valves in the BSSV box ensure that in case of a refrigerant leak only the specific branch is closed off.





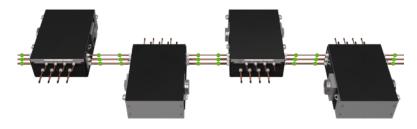
Reduced CO₂ equivalent

Flexibility to take care of every room

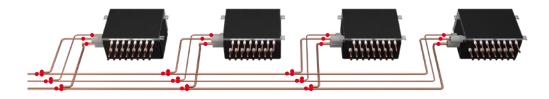
Completely redesigned for faster installation and easier servicing

> Faster installation thanks to **Refrigerant Flow Through** reducing the number of brazing points and joint kits

VRV 5: only 24 brazings point and no joint kits



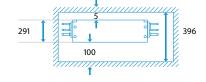
VRV 5: 39 brazing points and 3 joint kits



> Easy servicing in false ceillings thanks to **sliding down PCB**



 Limited ceiling void required as the box can be installed at just 5mm from the ceiling







- Unique range of multi BS boxes allowing efficient 3-pipe heat recovery
- > NEW No limitation on room size, thanks to Shîrudo Technology (1)
- > NEW Faster installation thanks to Refrigerant Flow Through reducing the number of brazing points and joint kits
- > NEW Easy servicing in false ceilings thanks to sliding down PCB
- NEW Limited ceiling void required as the box can be installed at just 5mm from the ceiling
- NEW Quick on-site settings, indication of service parameters and easy read out of errors thanks to 7 segment display
- > Up to 16kW capacity available per port
- > Connect up to 250 class unit (28kW) by combining 2 ports
- > No limit on unused ports allowing phased installation
- > Faster installation thanks to open port connection
- > Allows multi tenant applications
- > Connectable to REYA-A heat recovery units



More details and final information can be found by scanning or clicking the QR codes.





Branch selector				BS	4A14AV1B	6A14AV1B	8A14AV1B	10A14AV1B	12A14AV1B
Maximum number o	of connectable inc	door units			20	30	40	50	60
Maximum number o	of connectable inc	door units pe	er branch				5		
Number of branches	S				4	6	8	10	12
Maximum capacity i	ndex of connecta	ble indoor u	ınits		400	600		750	
Maximum capacity i	ndex of connecta	ble indoor u	ınits per branch			140 (250 if 2 ports are comb	ined)	
Dimensions	Unit	Heightx\	WidthxDepth	mm	275x600x843	275x1,0	000x843	275x1,4	00x843
Weight	Unit			kg	40	60	65	85	90
Casing	Material						Galvanised steel plate		
Piping connections	Outdoor unit	Liquid	OD	mm			15.9 (2)		
		Gas	OD	mm			22.2 (2)		
		Discharge o	gas OD	mm			22.2 (2)		
	Indoor unit	Liquid	OD	mm			6.4 / 9.52 (3)		
		Gas	OD	mm			9.52 / 12.7 (3) / 15.9 (3)		
	Drain						VP20 (I.D. 20/O.D. 26)		
Sound absorbing th	ermal insulation					Ureth	ane foam, polyethylen	e foam	
Power supply	Phase						1~		
	Frequency			Hz			50		
	Voltage			٧			220-440		
	Maximum fuse a	amps (MFA)		Α			15		

Contains fluorinated greenhouse gases | (1) Refer to Xpress selection software to ensure compliance to specific product standard. Field supplied duct and fan might be required to install the BS box in very small spaces | (2) Accessory pipes will be added to allow connection of all possible piping diameters according to piping rules | (3) Can be used by cutting pipes



VRV 5 S-series Aheat pump



Lower CO₂ equivalent and market-leading flexibility







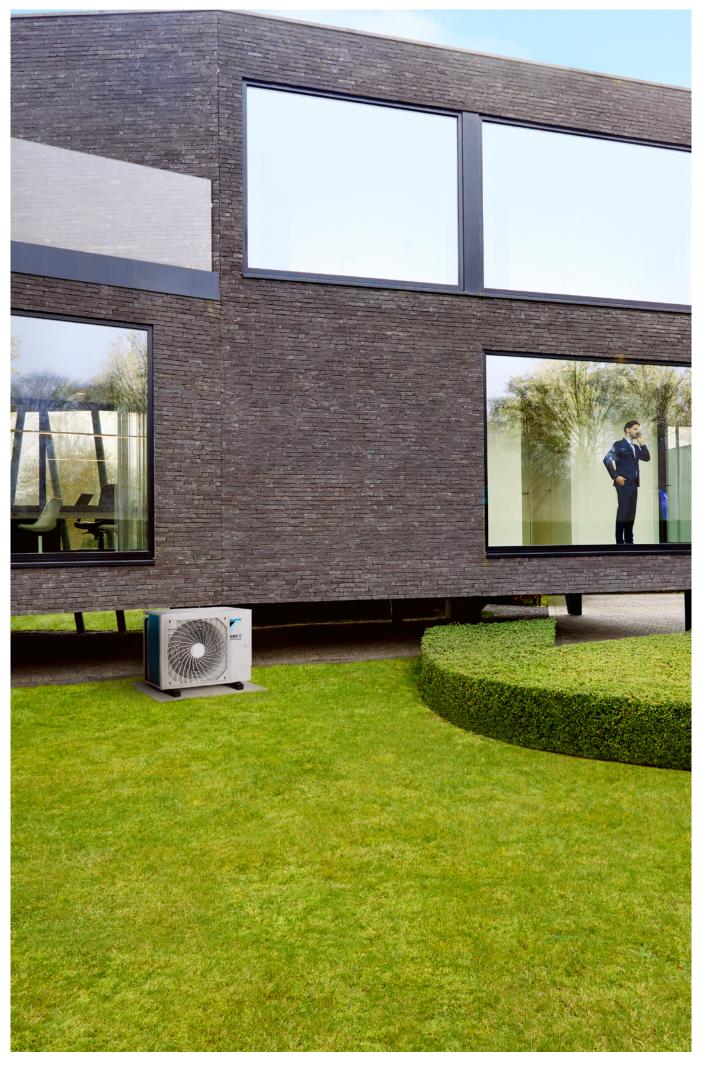


RXYSA-AV1_AY1

Life is more rewarding with the new VRV 5.

Our new all-round performer covers all of your mini VRV applications in Daikin's most sustainable solution.

- > Maximum flexibility allowing installation in rooms down to 10 m² thanks to Shîrudo technology
- > **Top sustainability** over the entire lifecycle thanks to low GWP R-32 refrigerant and market-leading real life seasonal efficiency
- > **Ergonomic serviceability** and handling, thanks to wide access area to easily reach components within low-profile single fan casing
- Best-in-class design versatility with five sound pressure levels down to 39
 dB(A) and automatic ESP setting up to 45 Pa allowing ductwork
- > Geared for comfort with intuitive online and voice controls plus a new 10 class indoor unit for small rooms



Next generation **JRJ**

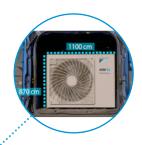


New asymmetric fan design

- > Two high ESP settings
- > Low sound levels

Compact dimensions

Easy to transport thanks to compact size and single-fan design

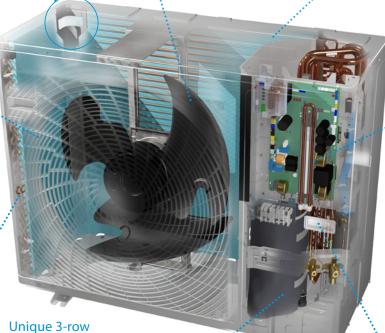


New casing design

New casing design with 4 handles for easy carrying

Specially designed grille

- > Low pressure drop
- > No risk for accidental reach of the fan



Unique 3-row heat exchanger Contributes to top seasonal efficiency

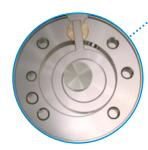
Refrigerant cooled PCB

With integrated:

- > cool/heat selector input
- 7-segment display for quicker and more precise error and setting reading

New stop valves

- Repositioned to allow front or side connection
- > Brazed for increased reliability



Unique Daikin swing compressor

- > No abrasion possible
- > No refrigerant leak possible
- > High seasonal efficiencies





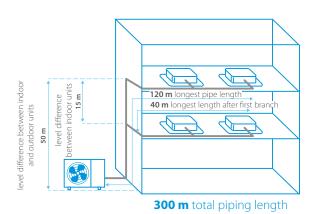




VRV 5 S-series

Lower CO₂ equivalent and market-leading flexibility

- > Reduced CO₂ equivalent thanks to the use of lower GWP R-32 refrigerant and lower refrigerant charge
- > Top sustainability over the entire lifecycle, thanks to market leading real-life seasonal efficiency
- > Low-height single fan range
- > Easy to transport thanks to lightweight and compact design
- > Wide access area to easily reach all key components
- > Tackle small room applications without any additional measures, thanks to Shîrudo technology
- > Specially designed indoor units for R-32, ensuring low sound and maximum efficiency











Reduced CO₂ equivalent

Flexibility to take care of every room

Published data with real-life indoor units

More details and final information can be found by scanning or clicking the QR codes.



RXYSA-AV1



Outdoor unit			RXYS	A/RXYSA	4AV1	5AV1	6AV1	4AY1	5AY1	6AY1
Capacity range				HP	4	5	6	4	5	6
Cooling capacity	Prated,c			kW	12.1	14.0	15.5	12.1	14.0	15.5
Heating capacity	Prated,h			kW	12.1	14.0	15.5	12.1	14.0	15.5
	Max.	6°CWB		kW	14.2	16.0	18.0	14.2	16.0	18.0
Recommended con	nbination				3 x FXSA25A2VEB + 1 x FXSA32A2VEB	4 x FXSA32A2VEB	2 x FXSA32A2VEB + 2 x FXSA40A2VEB	3 x FXSA25A2VEB + 1 x FXSA32A2VEB	4 x FXSA32A2VEB	2 x FXSA32A2VEB + 2 x FXSA40A2VEB
ηs,c				%	324.5	306.1	301.0	312.5	294.8	289.9
ηs,h				%	200.5	185.7	183.6	193.1	178.8	176.8
SEER					8.2	7.7	7.6	7.9	7.4	7.3
SCOP					5.1	4	.7	4.9	4	.5
Maximum number	of connect	table indoc	r units		13 (1)	16 (1)	18 (1)	13 (1)	16 (1)	18 (1)
Indoor index	Min.				50.0	62.5	70.0	50.0	62.5	70.0
connection	Nom.				100	125	140	100	125	140
	Max.				130.0	162.5	182.0	130.0	162.5	182.0
Dimensions	Unit	HeightxW	idthxDepth	mm			869x1,1	00x460		
Weight	Unit			kg			10	02		
Sound power level	Cooling	Nom.		dBA	67.0	68.1	69.0	67.0	68.1	69.0
	Heating	Prated,h		dBA	69.0	70.0	71.0	69.0	70.0	71.0
Sound pressure level	Cooling	Nom.		dBA	49.0	5	1.0	49.0	5	.0
Operation range	Cooling	Min.~Max	.	°CDB			-5~	~46		
	Heating	Min.~Max		°CWB			-20	~16		
Refrigerant	Type/GW	P					R-32/	/675.0		
	Charge			kg/TCO2Eq			3.40	/2.30		
Piping connections	Liquid	OD		mm			9.	.52		
	Gas	OD		mm			15	5.9		
	Total piping length	System	Actual	m			30	00		
	Height Difference	OU-IU	Outdoor unit in highest position	m			5	50		
			Indoor unit in highest position	m			4	10		
Power supply	Phase/Fre	equency/Vo	oltage	Hz/V		1~/50 /220-240			3N~/50 /380-415	
Current - 50Hz	Maximun	n fuse amp	s (MFA)	Α		32			16	



BLUEVOLUTION

VRV 5

indoor units

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VRV 5 indoor unit overview

Capacity class (kW)

Туре	Model	Prod	uct name	10	15	20	25	32	40	50	63 7	1 80	100	125	140 20	0 250	
Ceiling mounted cassette	UNIQUE Round flow cassette	360° air discharge for optimum efficiency and comfort > Auto cleaning function ensures high efficiency Intelligent sensors save energy and maximize comfort > Flexibility to suit every room layout > Lowest installation height in the market! > Widest choice ever in decoration panel designs and colors	FXFA-A			•	•	•	•	•	•	•	•	•			
Ceiling mou	UNIQUE Fully flat cassette	Unique design that integrates fully flat into the ceiling > Perfect integration in standard architectural ceiling tiles > Blend of iconic design and engineering excellence Intelligent sensors save energy and maximize comfort > Small capacity unit developed for small or well-insulated rooms > Flexibility to suit every room layout	FXZA-A		•	•	•	•	•	•							Black and designer panels
<u> 6</u>	Slim concealed ceiling unit	Slim design for flexible installation Compact dimensions enable installation in narrow ceiling voids Medium external static pressure up to 44Pa Only grilles are visible Small capacity unit developted for small of well-insulated rooms Reduced energy consumption thanks to DC fan motor	FXDA-A	•	•	•	•	•	•	•	•						
Concealed ceiling	Concealed ceiling unit with medium ESP	Slimmest yet most powerfull medium static pressure unit on the market! > Slimmest unit in class, only 245mm > Low operating sound level > Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths > Automatic air flow adjustment function measures the air volume and static pressure and adjusts it towards the nominal air flow, guaranteeing comfort	FXSA-A	QUE R-32	•	•	•	•	•	•	•	•	•	•	•		uto cleaning ilter option
	NEW Concealed ceiling unit with high ESP	ESP up to 270 Pa, ideal for extra large sized spaces > Optimum comfort guaranteed no matter the length of ductwork or type of grilles, thanks to automatic air flow adjustment > Large capacity unit: up to 31.5 kW heating capacity	FXMA-A	I						•	•	•	•	•	•		
Wall mounted	Wall mounted unit	For rooms with no false ceilings nor free floor space > Flat, stylish front panel is more easy to clean > Small capacity unit developted for small of well-insulated rooms > Reduced energy consumption thanks to DC fan motor The air is comfortably spread up- and downwards thanks to 5 different discharge angles	FXAA-A		•	•	•	•	•	•	•						
pepuded	NEW Ceiling suspended unit	For wide rooms with no false ceilings nor free floor space > Ideal for comfortable air flow in wide rooms thanks to Coanda effect > Rooms with ceilings up to 3.8m can be heated or cooled very easily! > Can easily be installed in both new and refurbishment projects > Can even be mounted in corners or narrow spaces without any problem	FXHA-A					•		•	•		•				
Ceiling suspended	NEW & UNIQUE 4-way blow ceiling suspended unit	Unique Daikin unit for high rooms with no false ceilings nor free floor space > Rooms with ceilings up to 3.5m can be heated up or cooled down very easily! > Can easily be installed in both new and refurbishment projects > Intelligent sensors save energy and maximise comfort > Flexibility to suit every room layout	FXUA-A							•			•				
Coolin	g capacity (kW	()1		1.1	1.7	2.2	2.8	3.6	4.5	5.6	7.1 8.	0 9.0	11.2	14.0	16.0 22	.4 28.0	
Heatin	g capacity (kV	/) ²		1.3	1.9	2.5	3.2	4.0	5.0	5.3	3.0 9.	0 10.	0 12.5	16.0	18.0 25	.0 31.5	

⁽¹⁾ Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m

⁽²⁾ Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m



VRV 5 indoo		_	mounted te units	Conce	ealed ceiling	j units	Wall mounted unit	Ceiling su	
benefit ove	rview	FXFA-A	FXZA-A	FXDA-A	FXSA-A	NEW FXMA	FXAA-A	NEW FXHA-A	NEW FXUA-A
Home leave operation	Maintains the indoor temperature at your specified comfort level during absence, thus saving energy.	•	•	•	•	•	•	•	•
Fan only	The unit can be used as fan, blowing air without heating or cooling.	•	•	•	•	•	•	•	•
Auto cleaning filter	The filter automatically cleans itself. Simplicity of upkeep means optimum energy efficiency and maximum comfort without the need for expensive or time-consuming maintenance.	0		0					o NEW
Floor and presence sensor	The presence sensor directs the air away from any person detected in the room, when the air flow control is on. The floor sensor detects the average floor temperature and ensures an even temperature distribution between ceiling and floor.	0	0						
Draught prevention	When starting to warm up or when the thermostat is off, the air discharge direction is set horizontally and the fan to low speed, to prevent draught. After warming up, air discharge and fan speed are set as desired.	•	•						•
Whisper quiet	Daikin indoor units are whisper quiet. Also the outdoor units are guaranteed not to disturb the quiet of the neightbourhood.	•	•	•	•		•		
Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature.	•	•	•	•	•	•	•	•
Air filter	Removes airborne dust particles to ensure a steady supply of clean air.	• (2)	• (2)	• (2)	• (2)	• (2)	• (2)	• (2)	• (2)
Dry programme	Allows humidity levels to be reduced without variations in room temperature.	•	•	•	•	•	•	•	•
Ceiling soiling prevention	Prevents air from blowing out too long in horizontal position, to prevent ceiling stains.	•	•						
Vertical auto swing	Possibility to select automatic vertical moving of the air discharge flaps for efficient air and temperature distribution throughout the room.	•	•				•	•	•
Fan speed steps	Allows to select up to the given number of fan speed.	5 + auto	3 + auto	3	3 + auto	3 (50-125) 3 + auto (200-250)	3 + auto	3	3 + auto
Individual flap control	Individual flap control via the wired remote controller enables you to easily fix the position of each flap individually, to suit any new room configuration. Optional closure kits are available as well.	•	•						•
Onecta controller (BRP069C51)	Control your indoor climate from any location via smartphone or tablet.	0	0	0	0	0	0	0	0
₩ Weekly timer	Can be set to start heating or cooling anytime on a daily or weekly basis.	0	0	0	0	0	0	0	0
(BRP069C51) Weekly timer Infrared remote control Wired remote control	Starts, stops and regulates the air conditioner from a distance.	o (1)	o (1)	o (1)	o (1)	o (1)	o (1)	o (1)	o (1)
Wired remote control	Starts, stops and regulates the air conditioner.	• (3)	• (3)	• (3)	• (3)	• (3)	• (3)	• (3)	• (3)
Centralised control	Starts, stops and regulates several air conditioners from one central point.	0	0	0	0	0	0	0	0
Auto-restart	The unit restarts automatically at the original settings after power failure.	•	•	•	•	•	•	•	•
Self-diagnosis	Simplifies maintenance by indicating system faults or operating anomalies.	•	•	•	•	•	•	•	•
Self-diagnosis Train pump kit	Facilitates condensation draining from the indoor unit.	•	•	•	•	•	0	0	•
Multi tenant	The indoor unit's main power supply can be turned off when leaving the hotel or office building.	•	•	•	•		•		

⁽¹⁾ Must be combined with Madoka wired remote controller. (2) Pre filter (3) BRCIH52W/S/K is a required option



New round flow cassette



- > Bigger louvers and new sensor logic further improves equal air distribution in the room
- > Widest ever choice in panels for cassette units, with up to 8 different panels



Black auto cleaning panel



Black designer panel



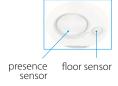
Full white standard panel



White designer panel

> Comes with the known benefits: 360° air flow discharge and intelligent sensors









Auto cleaning filter

Dust can simply be removed using a vacuum cleaner without opening the unit.

* Available as an option

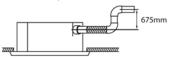




Round flow cassette

360° air discharge for optimum efficiency and comfort

- > Optimised design for R-32 refrigerant
- > Optional automatic filter cleaning panel results in higher efficiency & comfort and lower maintenance costs.
- > Two optional intelligent sensors improve energy efficiency and comfort
- > Widest choice ever in decoration panels: designer panels in white (RAL9010) and black (RAL9005) and standard panels in white (RAL9010) with grey louvers or full white
- > Bigger flaps and unique swing pattern improve equal air distribution
- > Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- > Lowest installation height in the market: 214mm for class 20-63
- > Optional fresh air intake
- > Standard drain pump with 675mm lift increases flexibility and installation speed













White panel

White auto cleaning panel

Black panel

Black design panel

More details and final information can be found by scanning or clicking the QR codes.





Indoor Unit				FXFA	20A	25A	32A	40A	50A	63A	80A	100A	125A	
Cooling capacity	Total capacity	/ At high fa	an speed	kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00	
Heating capacity	Total capacity	/ At high fa	an speed	kW	2.50	3.20	4.00	5.00	6.30	8.00	10.00	12.50	16.00	
Power input – 50Hz	Cooling	At high fa	an speed	kW		0.017		0.018	0.023	0.028	0.045	0.078	0.103	
	Heating	At high fa	an speed	kW		0.017		0.018	0.023	0.028	0.045	0.078	0.103	
Dimensions	Unit	HeightxV	VidthxDepth	mm			204x8	40x840			246x84	40x840	288x840x840	
Weight	Unit			kg		18		19	2	21	2	.4	26	
Casing	Material							Galva	anised steel	plate				
Decoration panel	Model				Standard	. Aut	o cleaning	hite with gre panels: BYCC anels: BYCQ1)140EGF – w	hite / BYCQ	140EGFB – k	olack	EB – black	
	Dimensions	HeightxV	VidthxDepth	mm	Standard	d panels: 65	x950x950/	Auto cleanir	ng panels: 1	48x950x950	/ Designer	panels: 106x	k950x950	
	Weight			kg		Stanc	dard panels:	5.5 / Auto cl	eaning pan	els: 10.3 / De	signer pan	els: 6.5		
Fan	Air flow	Cooling	H/MH/M/ML/L	m³/min	12.8	/11.8/10.7/9.	8/8.9	14.8/13.7/12.6/		16.6/15.0/13.3/				
	rate –							11.5/10.4	11.8/10.7	12.0/10.7	16.5/13.8	17.5/13.8	24.0/20.6	
	50Hz	Heating	H/MH/M/ML/L	m³/min	12.8	/11.8/10.7/9.	8/8.9	14.8/13.7/12.6/ 11.5/10.4	15.1/14.0/12.8/ 11.8/10.7	16.6/15.0/13.3/ 12.0/10.7	23.3/21.7/19.3/ 16.5/13.8	29.0/25.1/21.2/ 17.5/13.8	33.0/30.2/27.4/ 24.0/20.6	
Air filter	Type								Resin net					
Sound power level	Cooling	At high fa	an speed	dBA		49.0 (4)		51.0	(4)	53.0 (4)	55.0 (4)	60.0 (4)	61.0 (4)	
Sound pressure level	Cooling	H/MH/M	/ML/L	dBA	31.0/30	.0/29.0/29.5	/28.0 (4)		2.0/31.0/ 29.0 (4)	35.0/34.0/33.0/ 32.0/30.0 (4)	38.0/36.0/34.0/ 32.0/30.0 (4)	43.0/41.0/37.0/ 34.0/30.0 (4)	45.0/43.0/41.0/ 39.0/36.0 (4)	
	Heating	H/MH/M	/ML/L	dBA	31.0/30	.0/29.0/29.5	/28.0 (4)		2.0/31.0/ 29.0 (4)	35.0/34.0/33.0/ 32.0/30.0 (4)	38.0/36.0/34.0/ 32.0/30.0 (4)	43.0/41.0/37.0/ 34.0/30.0 (4)	45.0/43.0/41.0/ 39.0/36.0 (4)	
Refrigerant	Type/GWI	P							R-32/675.0					
Piping connections	Liquid	OD		mm				6.35				9.	52	
	Gas	OD		mm		9.52			12	.70		15.	.90	
	Drain VP25 (O.D. 32 / I.D. 25)													
Power supply	Phase/Fre	equency/V	'oltage	Hz/V 1~/50/60/220-240/220										
Current – 50Hz	Maximum	n fuse amp	os (MFA)	Α					6					
Control systems	Infrared r	emote cor	ntrol		BRC7FA532F / BRC7FB532F / BRC7FA532FB / BRC7FB532FB (2)									
	Wired ren	note contr	ol					В	RC1H52W/S	/K				

⁽¹⁾ MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing | (2) Must be combined with Madoka wired remote controller. | (3) L/ML/M/MH/H are the different fan speeds availble. L= low; ML= medium low; M= medium; MH= medium high; H= high | (4) Sound of designer panel: +3dB | Contains fluorinated greenhouse gases



Why choose fully flat cassette

- Unique design in the market that integratesfully flat into the ceiling
- > Advanced technology and top efficiency combined
- > Most quiet cassette available on the market

FXZQ-A



Choice between grey or white panel

Benefits for the installer

- > Unique product in the market!
- > Most quiet unit (25dBA)
- The user-friendly remote control, available in several languages, enables the easy set-up of sensor option and control of the individual flap position
- > Meeting Furopean design taste

Benefits for the consultant

- > Unique product in the market!
- Blends seamlessly in any modern office interior design
- Ideal product to improve BREEAM score/EPBD in combination with Sky Air (FFA*) or VRV IV heat pump units (FXZQ*).

Benefits for the end user

- > Engineering excellence and unique design in one
- Most quiet unit (25dBA)
- > Perfect working conditions: no more cold draughts
- > Save up to 27% on your energy bill thanks to the optional sensors
- Flexible usage of space and suits any room configuration thanks to individual flap contro
- > User-friendly remote control, available in several languages.

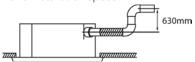
Fully flat cassette

Unique design in the market that integrates fully flat into the ceiling

- > Optimised design for R-32 refrigerant
- > Fully flat integration in standard architectural ceiling tiles, leaving only 8mm
- Remarkable blend of iconic design and engineering excellence with an elegant finish in white or a combination of silver and white
- Two optional intelligent sensors improve energy efficiency and comfort
- > 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- > Individual flap control: flexibility to suit every room layout without changing the location of the unit!



- > Optional fresh air intake
- > Standard drain pump with 630mm lift increases flexibility and installation speed



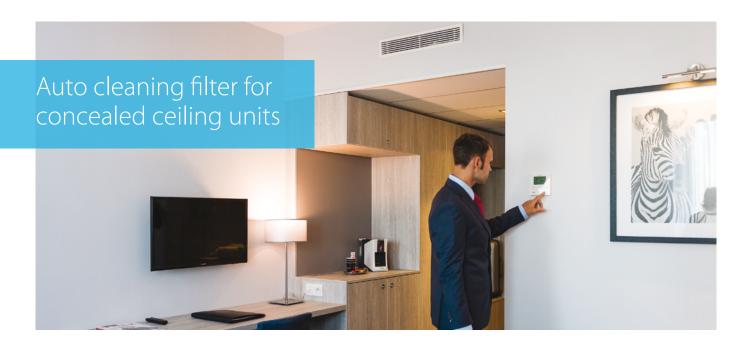


More details and final information can be found by scanning or clicking the QR codes.





Indoor Unit				FXZA	15A	20A	25A	32A	40A	50A
Cooling capacity	Total capacity	At high fa	an speed	kW	1.70	2.20	2.80	3.60	4.50	5.60
Heating capacity	Total capacity	At high fa	an speed	kW	1.90	2.50	3.20	4.00	5.00	6.30
Power input – 50Hz	z Cooling	At high fa	an speed	kW	0.0	018	0.020	0.019	0.029	0.048
	Heating	At high fa	an speed	kW	0.0	018	0.020	0.019	0.029	0.048
Dimensions	Unit	HeightxV	VidthxDepth	mm			260 x5	75 x575		
Weight	Unit			kg		15.5		16	5.5	18.5
Casing	Material						Galvanised	steel plate		
Decoration panel	Model						BYFQ60	C4W1W		
	Colour						White	(N9.5)		
	Dimensions	HeightxV	VidthxDepth	mm			46 x62	0 x620		
	Weight			kg			2	.8		
Decoration panel 2	Model						BYFQ6	C4W1S		
	Colour						SIL	VER .		
	Dimensions	HeightxV	VidthxDepth	mm			46 x62	0 x620		
	Weight			kg			2	.8		
Decoration panel 3	Model					1	BYFQ60B3W1+wi	re harness EKRS2	3	
	Colour						WHITE (I	RAL9010)		
	Dimensions	HeightxV	VidthxDepth	mm			55 x70	0 x700		
	Weight			kg			2	.7		
Fan	Air flow rate –	Cooling	At high/medium/ low fan speed	m³/min	8.5/7.0/6.5	8.7/7.5/6.5	9.0/8.0/6.5	10.0/8.5/7.0	11.5/9.5/8.0	14.0/12.5/10.0
	50Hz	Heating	At high/medium/ low fan speed	m³/min	8.5/7.0/6.5	8.7/7.5/6.5	9.0/8.0/6.5	10.0/8.5/7.0	11.5/9.5/8.0	14.0/12.5/10.0
Air filter	Type						Resi	n net		
Sound power level	Cooling	At high fa	an speed	dBA	4	19	50	51	54	60
Sound pressure	Cooling	At high/m	edium/low fan speed	dBA	31.5/28.0/25.5	32.0/29.5/25.5	33.0/30.0/25.5	33.5/30.0/26.0	37.0/32.0/28.0	43.0/40.0/33.0
level	Heating	At high/m	edium/low fan speed	dBA	31.5/28.0/25.5	32.0/29.5/25.5	33.0/30.0/25.5	33.5/30.0/26.0	37.0/32.0/28.0	43.0/40.0/33.0
Refrigerant	Type/GW	Р					R-32/	675.0		
Piping connections	s Liquid	OD		mm			6.	35		
	Gas	OD		mm		9.	52		12	.70
	Drain						VP20 (I.D.	20/O.D. 26)		
Power supply	Phase/Fre	quency/V	oltage	Hz/V			1~/50/60/2	20-240/220		
Current – 50Hz	Maximum	n fuse amp	os (MFA)	Α				5		
Control systems	Infrared r	emote cor	ntrol		BRC7F5	30W (white panel)) / BRC7F530S (gre	y panel) / BRC7EB	3530W (standard)	oanel) (1)
Control systems	Wired ren	note contr	rol				BRC1H5	2W/S/K		

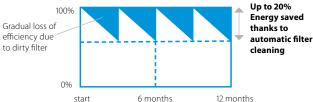


The unique automatic cleaning filter achieves higher efficiency and comfort with lower maintenance costs

Reduce running costs

> Automatic filter cleaning ensures low maintenance costs because the filter is always clean

Efficiency profile change for duct indoor unit during operation



Minimal time required for filter cleaning

- > The dust box can be emptied with a vacuum cleaner for fast and easy cleaning
- > No more dirty ceilings

Improved indoor air quality

Optimum airflow eliminates draft and insulates sound

Superb reliability

> Prevents clogged filters for seamless operation

Unique technology

 Unique and innovative filter technology inspired by the Daikin auto cleaning cassette



Combination table

	S	plit/	Sky A	ir				VRV			
		FDX	M-F9			F	XDA-	A/FX	DQ-A	3	
	25	35	50	60	15	20	25	32	40	50	63
BAE20A62	•	•			•	•	•	•			
BAE20A82									•	•	
BAE20A102			•	•							•

How does it work?

- 1 Scheduled automatic filter cleaning
- 2 Dust collects in a dust box that's integrated into the unit
- 3 The dust can easily be removed with a vacuum cleaner



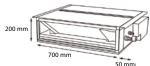
Specifications	BAE20A62	BAE20A82	BAE20A102
Height (mm)		210	
Width (mm)	830	1,030	1,230
Depth (mm)		188	

Slim concealed ceiling unit

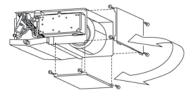
Slim design for flexible installation

- > Optimised design for R-32 refrigerant
- > 10 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- > Compact dimensions, can easily be mounted in a ceiling void of only 240mm

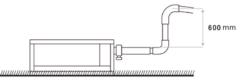




- Medium external static pressure up to 44Pa facilitates unit use with flexible ducts of varying lengths
- > Discretely concealed in the wall: only the suction and discharge grilles are visible
- > Optional auto cleaning filter option ensures maximum efficiency, comfort and reliability by regular filter cleaning
- > Flexible installation, as the air suction direction can be altered from rear to bottom suction



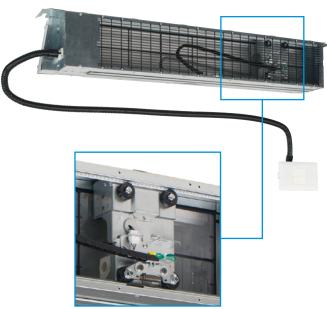
> Standard drain pump with 600mm lift increases flexibility and installation speed



More details and final information can be found by scanning or clicking the QR codes.







Auto cleaning filter option

			FXDA	10A	15A	20A	25A	32A	40A	50A	63A
Total capacity	At high fa	an speed	kW	1.10	1.70	2.20	2.80	3.60	4.50	5.60	7.10
Total capacity	At high fa	an speed	kW	1.30	1.90	2.50	3.20	4.00	5.00	6.30	8.00
Cooling	At high fa	an speed	kW	0.026	0.035	0.	.030	0.035	0.038	0.049	0.058
Heating	At high fa	an speed	kW	0.026	0.035	0.	.030	0.035	0.038	0.049	0.058
id >			mm				24	40			
Unit	HeightxV	VidthxDepth	mm			200x750x620	0		200x9	50x620	200x1,150x620
Unit			kg	22	2.0		23.0		26	5.5	30.5
Material							Galvani	sed steel			
Air flow rate –	Cooling	At high/medium/ low fan speed	m³/min	5.2/4.9/4.7	6.5/6.2/5.8		8.0/7.2/6.4		10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0
50Hz	Heating	At high/medium/ low fan speed	m³/min	5.2/4.9/4.7	6.5/6.2/5.8		8.0/7.2/6.4		10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0
		et / High	Pa			10/30				15/44	
Туре							Removable	/ washable			
Cooling	At high fa	an speed	dBA	48	50		51		52	53	54
Cooling	At high/m	edium/low fan speed	dBA	29.0/28.0/26.0	32.0/31.0/27.0		33.0/31.0/27.0		34.0/32.0/28.0	35.0/33.0/29.0	36.0/34.0/30.0
Heating	At high/m	edium/low fan speed	dBA	29.0/28.0/26.0	32.0/31.0/27.0		33.0/31.0/27.0		34.0/32.0/28.0	35.0/33.0/29.0	36.0/34.0/30.0
Type/GWF)						R-32/	675.0			
Liquid	OD		mm				6.	35			
Gas	OD		mm			9.52				12.70	
Drain							VP20 (I.D.	20/O.D. 26)			
Phase/Fre	quency/V	oltage	Hz/V				1~/50/60/2	20-240/220			
Maximum	fuse amp	s (MFA)	Α					5			
Infrared re	emote cor	itrol					BRC4C65/	BRC4C66 (1)			
Wirod ron	note contr	ما					DDC1U	2///C/V			
	Total capacity Cooling Heating id > Unit Unit Material Air flow rate - 50Hz External static pressure - 50Hz Type Cooling Heating Type/GWf Liquid Gas Drain Phase/Fre Maximum Infrared re	Total capacity At high factoring At high factori	Heating At high fan speed id > Unit HeightxWidthxDepth Unit Material Air flow rate - 50Hz FoHz Air flow Heating At high/medium/ low fan speed External static pressure - 50Hz Type Cooling At high fan speed Cooling At high fan speed Heating At high/medium/low fan speed Heating At high/medium/low fan speed Type/GWP Liquid OD Gas OD	Total capacity At high fan speed kW Total capacity At high fan speed kW Cooling At high fan speed kW Heating At high fan speed kW Id >	Total capacity	Total capacity At high fan speed kW 1.10 1.70 Total capacity At high fan speed kW 1.30 1.90 Cooling At high fan speed kW 0.026 0.035 Heating At high fan speed kW 0.026 0.035 id > mm Unit HeightxWidthxDepth mm Unit kg 22.0 Material At flow Air flow Cooling At high/medium/ m³/min low fan speed 5.2/4.9/4.7 6.5/6.2/5.8 External static Factory set / High pressure-50Hz Pa External static Factory set / High pressure-50Hz Pa 6.5/6.2/5.8 External static Factory set / High Pa 6.5/6.2/5.8 External static Factory set / High Pa	Total capacity	Total capacity	Total capacity	Total capacity At high fan speed kW 1.10 1.70 2.20 2.80 3.60 4.50 Total capacity At high fan speed kW 1.30 1.90 2.50 3.20 4.00 5.00 Cooling At high fan speed kW 0.026 0.035 0.035 0.038 0.038 Heating At high fan speed kW 0.026 0.035 0.035 0.038 0.038 Id> Total capacity At high fan speed kW 0.026 0.035 0.035 0.038 <t< td=""><td> Total capacity At high fan speed KW 1.10 1.70 2.20 2.80 3.60 4.50 5.60 Total capacity At high fan speed KW 1.30 1.90 2.50 3.20 4.00 5.00 6.30 Cooling At high fan speed KW 0.026 0.035 0.030 0.035 0.038 0.049 Heating At high fan speed KW 0.026 0.035 0.030 0.035 0.038 0.049 Heating At high fan speed KW 0.026 0.035 0.030 0.035 0.038 0.049 Heating At high fan speed KW 0.026 0.035 0.030 0.035 0.038 0.049 Unit HeightxWithxDepth mm 200x750x620 23.0 26.5 Material Air flow rate - 50Hz 10.5/9.5/8.5 12.5/11.0/10.0 Extenal static Factory set High medium m³/min low fan speed 50Hz 7.52/4.9/4.7 6.5/6.2/5.8 8.0/7.2/6.4 10.5/9.5/8.5 12.5/11.0/10.0 Extenal static Factory set High medium m³/min low fan speed 48A 48 50 51 52 53 Cooling At high/medium/low fan speed dBA 29.0/28.0/26.0 32.0/31.0/27.0 33.0/31.0/27.0 34.0/32.0/28.0 35.0/33.0/29.0 Type/GWP</td></t<>	Total capacity At high fan speed KW 1.10 1.70 2.20 2.80 3.60 4.50 5.60 Total capacity At high fan speed KW 1.30 1.90 2.50 3.20 4.00 5.00 6.30 Cooling At high fan speed KW 0.026 0.035 0.030 0.035 0.038 0.049 Heating At high fan speed KW 0.026 0.035 0.030 0.035 0.038 0.049 Heating At high fan speed KW 0.026 0.035 0.030 0.035 0.038 0.049 Heating At high fan speed KW 0.026 0.035 0.030 0.035 0.038 0.049 Unit HeightxWithxDepth mm 200x750x620 23.0 26.5 Material Air flow rate - 50Hz 10.5/9.5/8.5 12.5/11.0/10.0 Extenal static Factory set High medium m³/min low fan speed 50Hz 7.52/4.9/4.7 6.5/6.2/5.8 8.0/7.2/6.4 10.5/9.5/8.5 12.5/11.0/10.0 Extenal static Factory set High medium m³/min low fan speed 48A 48 50 51 52 53 Cooling At high/medium/low fan speed dBA 29.0/28.0/26.0 32.0/31.0/27.0 33.0/31.0/27.0 34.0/32.0/28.0 35.0/33.0/29.0 Type/GWP

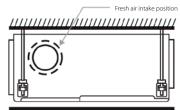
Concealed ceiling unit with medium ESP

Slimmest yet most powerful medium static pressure unit on the market

- > Optimised design for R-32 refrigerant
- Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge



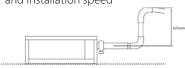
- > Quiet operation: down to 25dBA sound pressure level
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discretely concealed in the wall: only the suction and discharge grilles are visible
- > 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- > Optional fresh air intake
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required Fresh air intake opening in casing



* Brings in up to 10% of fresh air into the room



 Standard built-in drain pump with 625mm lift increases flexibility and installation speed



Automatic Airflow Adjustment function

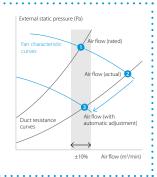
Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within $\pm 10\%$

Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance

* the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature

Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model), making installation much faster



More details and final information can be found by scanning or clicking the QR codes.





Indoor Unit				FXSA	15A	20A	25A	32A	40A	50A	63A	80A	100A	125A	140A
Cooling capacity	Total capacity	At high fa	an speed	kW	1.70	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00	16.00
Heating capacity	Total capacity	At high fa	an speed	kW	1.90	2.50	3.20	4.00	5.00	6.30	8.00	10.00	12.50	16.00	18.00
Power input – 50Hz	Cooling	At high fa	an speed	kW		0.046		0.049	0.094	0.096	0.106	0.143	0.176	0.216	0.272
	Heating	At high fa	an speed	kW		0.046		0.049	0.094	0.096	0.106	0.143	0.176	0.216	0.272
Dimensions	Unit	HeightxV	VidthxDepth	mm		245x55	008x00		245x70	008x00	245x1,0	008x00	245x1,4	00x800	245x1,550x800
Weight	Unit			kg		23.5		24.0	28.5	29.0	35.5	36.5	46.0	47.0	51.0
Casing	Material								Galva	nised stee	el plate				
Fan	Air flow rate –	Cooling	At high/medium/ low fan speed	m³/min	8.7/7.5/6.5	9.0/7	.5/6.5	9.5/8.0/7.0	15.0/12.5/11.0	15.2/12.5/11.0	21.0/18.0/15.0	23.0/19.5/16.0	32.0/27.0/23.0	36.0/31.5/26.0	39.0/34.0/28.0
	50Hz	Heating	At high/medium/ low fan speed	m³/min	8.7/7.5/6.5	9.0/7	.5/6.5	9.5/8.0/7.0	15.0/12.5/11.0	15.2/12.5/11.0	21.0/18.0/15.0	23.0/19.5/16.0	32.0/27.0/23.0	36.0/31.5/26.0	42.5/34.0/28.0
	External static pressure - 50Hz	Factory s	et / High	Pa				30/150				40/	150	50/	/150
Air filter	Type									Resin net					
Sound power level	Cooling	At high fa	an speed	dBA		54		55	6	0	59	6	51	6	54
Sound pressure	Cooling	At high/m	edium/low fan speed	dBA	29.5/28.0/25.0	30.0/28	3.0/25.0	31.0/29.0/26.0	35.0/32	2.0/29.0	33.0/30.0/27.0	35.0/32.0/29.0	36.0/34.0/31.0	39.0/36.0/33.0	41.5/38.0/34.0
level	Heating	At high/m	edium/low fan speed	dBA	31.5/29.0/26.0	32.0/29	0.0/26.0	33.0/30.0/27.0	37.0/34	1.0/29.0	35.0/32.0/28.0	37.0/34.0/30.0	37.0/34.0/31.0	40.0/37.0/33.0	42.0/38.5/34.0
Refrigerant	Type/GW	P								R-32/675.0)				
Piping connections	Liquid	OD		mm				6.	35					9.52	
	Gas	OD		mm		9.	52			12	.70			15.90	
	Drain							VP20 (I	.D. 20/O.D). 26), drai	n height (525 mm			
Power supply	Phase/Fre	quency/V	'oltage	Hz/V					1~/50/	60/220-24	40/220				
Current – 50Hz	Maximum	n fuse amp	s (MFA)	Α						6					
Control systems	Infrared r	emote con	ntrol						BRC4C	65 / BRC4	IC66 (1)				
	Wired ren	note contr	ol		BRC1H52W/S/K										

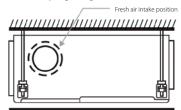


Concealed ceiling unit with high ESP

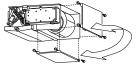
Ideal for large sized spaces ESP up to 270 Pa

- > Optimised for R-32 refrigerant
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- > High external static pressure up to 270Pa facilitates extensive duct and grille network
- > Discretely concealed in the wall: only the suction and discharge grilles are visible
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required (50-125 class)

Fresh air intake opening in casing

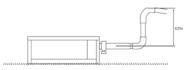


- * Brings in up to 10% of fresh air into the room
- Flexible installation, as the air suction direction can be altered from rear to bottom suction (50-125 class)





 Standard built-in drain pump with 625mm lift increases flexibility and installation speed (optional for 200-250)



- > High external static pressure up to 270Pa facilitates extensive duct and grille network
- > Large capacity unit: up to 31.5 kW heating capacity

Automatic Airflow Adjustment function

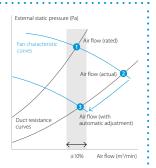
Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within $\pm 10\%$

Whv

** the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically

After installation the real ducting will frequently differ from the initially calculated air flow resistance

Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model), making installation much faster



More details and final information can be found by scanning or clicking the QR codes.





Indoor Unit				FXMA	50A	63A	80A	100A	125A	200A	250A
Cooling capacity	Total capacity	At high fa	an speed	kW	5.6	7.1	9.0	11.2	14.0	22.4	28.0
Heating capacity	Total capacity	At high fa	an speed	kW	6.3	8.0	10.0	12.5	16.0	25.0	31.5
Power input – 50Hz	Cooling	At high fa	an speed	kW	0.121	0.132	0.198	0.214	0.254	0.895	1.185
	Heating	At high fa	an speed	kW				-			
Required ceiling vo	id >			mm			350				-
Dimensions	Unit	HeightxV	VidthxDepth	mm		300x1,000x700)	300x1,4	00x700	470x1,3	80x1,100
Weight	Unit			kg		35		4	5	13	32
Fan	Air flow	Cooling	H/M/L fan speed	m³/min	18.0/16.5/15.0	19.5/17.5/16.0	25.0/22.5/20.0	32.0/27.5/23.0	36/30/26	58/-/50	72/-/62
	rate – 50Hz	Heating	H/M/L fan speed	m³/min				-/-/-			
	External static pressure - 50Hz		et / High	Pa			100/200			160/270	170/270
Air filter	Туре						Resin net				-
Sound power level	Cooling	H/M/L fa	n speed	dBA	61.0/-/-	64.0/-/-	67.0/-/-	65.0/-/-	70.0/-/-	75	76
Sound pressure	Cooling	H/M/L fa	n speed	dBA	41.0/-/37.0	42.0/-/38.0	43.0/	-/39.0	44.0/-/40.0	48/	-/45
level	Heating	H/M/L fa	n speed	dBA	41.0/-/37.0	42.0/-/38.0	43.0/	-/39.0	44.0/-/40.0	-/	-/-
Refrigerant	Type/GWI	Р						R-32/675			
Piping connections	Liquid	OD		mm		6.35			9.5	52	
	Gas	OD		mm		12.7		15	.9	19.1	22.2
	Drain					VF	25 (I.D. 25/O.D.	32)		PS	51B
Power supply	Phase/Fre	quency/V	oltage	Hz/V		1~/	50/60/220-240/	220		1~/50 /:	220-240
Current – 50Hz	Maximum	n fuse amp	s (MFA)	Α				16			
Control systems	Infrared r	emote cor	ntrol					BRC4C65			
	14/:	note contr	-al					BRC1H52W/S/K			

Contains fluorinated greenhouse gases



Wall mounted unit

For rooms with no false ceilings nor free floor space

- > Optimised design for R-32 refrigerant
- > Flat, stylish front panel blends easily within any interior décor and is easier to clean
- > Can easily be installed in both new and refurbishment projects
- The air is comfortably spread up- and downwards thanks to
 5 different discharge angles that can be programmed via the remote control
- > Maintenance operations can be performed easily from the front of the unit



More details and final information can be found by scanning or clicking the QR codes.



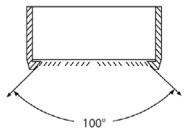
Indoor Unit				FXAA	15A	20A	25A	32A	40A	50A	63A
Cooling capacity	Total capacity	At high fa	an speed	kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	Total capacity	At high fa	an speed	kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0
Power input – 50Hz	Cooling	At high fa	an speed	kW	0.017	0.019	0.028	0.030	0.025	0.033	0.050
	Heating	At high fa	an speed	kW	0.025	0.029	0.034	0.035	0.030	0.039	0.060
Dimensions	Unit	HeightxV	VidthxDepth	mm		290x7	95x266			290x1,050x269	
Weight	Unit			kg		1	12			15	
Fan	Air flow rate –	Cooling	At high/medium/ low fan speed	m³/min	7.1/6.8/6.5	7.9/7.2/6.5	8.3/7.4/6.5	9.4/8.0/6.5	12.2/11.0/9.8	14.2/12.6/10.9	18.2/15.5/12.9
	50Hz	Heating	At high/medium/ low fan speed	m³/min	7.8/7.1/6.5	8.6/7.5/6.5	9.0/7.7/6.5	9.9/8.2/6.5	12.2/11.0/9.8	15.2/13.7/12.1	18.7/16.4/14.1
Air filter	Туре						Rem	ovable / washa	able		
Sound power level	Cooling	At high fa	an speed	dBA	51.0	52.0	53.0	55	5.0	58.0	63.0
Sound pressure	Cooling	At high/m	edium/low fan speed	dBA	32.0/30.5/28.5	33.0/31.0/28.5	35.0/32.0/28.5	37.5/33.0/28.5	37.0/35.5/33.5	41.0/38.5/35.5	46.5/42.5/38.5
level	Heating	At high/m	edium/low fan speed	dBA	33.0/31.0/28.5	34.0/31.5/28.5	36.0/32.5/28.5	38.5/33.5/28.5	38.0/36.0/33.5	42.0/39.0/35.5	47.0/43.0/38.5
Refrigerant	Type/GWF)						R-32/675.0			
Piping connections	Liquid	OD		mm				6.35			
	Gas	OD		mm		9.	.52			12.70	
	Drain						VP	13 (I.D. 15/O.D. 1	18)		
Power supply	Phase/Fre	quency/V	oltage	Hz/V				1~/50 /220-240			
Current – 50Hz	Maximum	fuse amp	s (MFA)	Α				6			
Control systems	Infrared re	emote con	ntrol					BRC7EA630 (1)			
	Wired ren	note contr	ol					BRC1H52W/S/K			



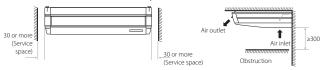
Ceiling suspended unit

For wide rooms with no false ceilings nor free floor space

- > Optimised for R-32 refrigerant
- Ideal for comfortable air flow in wide rooms thanks to Coanda effect: up to 100° discharge angle



- > Even rooms with ceilings up to 3.8m can be heated up or cooled down very easily without capacity loss
- > Can easily be installed in both new and refurbishment projects
- Can easily be mounted in corners and narrow spaces, as it only needs 30mm lateral service space



 Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required Fresh air intake opening in casing



- * Brings in up to 10% of fresh air into the room
- > Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible

More details and final information can be found by scanning or clicking the QR codes.







					capacity range		
			FXHA	32A	50A	63A	100A
Total capacity	At high fa	an speed	kW	3.6	5.6	7.1	11.2
Nom.				4.0	6.3	8.0	12.5
Total capacity	At high fa	an speed	kW	4.0	6.3	8.0	12.5
Cooling	At high fa	an speed	kW	0.033	0.037	0.051	0.086
Heating	At high fa	an speed	kW	0.033	0.037	0.051	0.086
Unit	HeightxV	VidthxDepth	mm	235x960x690	235x1,2	70x690	235x1,590x690
Unit			kg	28	3	6	43
Material					Resin, she	eet metal	
Air flow rate –	Cooling	At high/medium/ low fan speed	m³/min	12.5/11.0/10.0	16.0/14.0/12.5	17.5/15.0/13.0	27.0/22.0/19.0
50Hz	Heating	At high/medium/ low fan speed	m³/min	12.5/11.0/10.0	16.0/14.0/12.5	17.5/15.0/13.0	27.0/22.0/19.0
Туре					Resin net with r	nold resistance	
Cooling	At high/m	edium/low fan speed	dBA	54.0/52.0/49.0	54.0/52.0/50.0	55.0/53.0/52.0	62.0/55.0/52.0
Heating	At high/m	edium/low fan speed	dBA	54.0/52.0/49.0	54.0/52.0/50.0	55.0/53.0/52.0	62.0/55.0/52.0
Cooling	At high/m	edium/low fan speed	dBA	36.0/34.0/31.0	36.5/34.5/33.0	37.0/35.0/34.0	44.0/37.0/34.0
Heating	At high/m	edium/low fan speed	dBA	36.0/34.0/31.0	36.5/34.5/33.0	37.0/35.0/34.0	44.0/37.0/34.0
Type/GWI	Р				R-32	/675	
Liquid	OD		mm		6.4		9.52
Gas	OD		mm	9.52	12	.7	15.9
Drain					VP	20	
Phase/Fre	quency/V	'oltage	Hz/V		1~/50/60/2	20-240/220	
Maximum	n fuse amp	s (MFA)	Α		(j	
Infrared re	emote con	ntrol			BRC7G	A53-9	
Wired ren	note contr	ol			BRC1H5	2W/S/K	
	Nom. Total capacity Cooling Heating Unit Unit Material Air flow rate – 50Hz Type Cooling Heating Cooling Heating Type/GWI Liquid Gas Drain Phase/Fre Maximum Infrared re	Nom. Total capacity At high fa Cooling At high fa Heating At high fa Unit HeightxV Unit Material Air flow rate – 50Hz Heating Type Cooling At high/m Heating At high/m Heating At high/m Type/GWP Liquid OD Gas OD Drain Phase/Frequency/V Maximum fuse amp Infrared remote cor	Total capacity At high fan speed Cooling At high fan speed Heating At high fan speed Unit HeightxWidthxDepth Unit Material Air flow rate - low fan speed 50Hz Heating At high/medium/low fan speed Type Cooling At high/medium/low fan speed At high/medium/low fan speed Type Cooling At high/medium/low fan speed Heating At high/medium/low fan speed Type/GWP Liquid OD Gas OD	Total capacity At high fan speed kW Nom. Total capacity At high fan speed kW Cooling At high fan speed kW Heating At high fan speed kW Unit HeightxWidthxDepth mm Unit Ky Material Air flow Cooling At high/medium/ low fan speed heating At high/medium/ low fan speed Type Cooling At high/medium/low fan speed dBA Heating At high/medium/low fan speed dBA Heating At high/medium/low fan speed dBA Heating At high/medium/low fan speed dBA Type/GWP Liquid OD mm Gas OD mm Drain Phase/Frequency/Voltage Hz/V Maximum fuse amps (MFA) A Infrared remote control	Total capacity At high fan speed kW 3.6 Nom. 4.0 Total capacity At high fan speed kW 4.0 Cooling At high fan speed kW 0.033 Heating At high fan speed kW 0.033 Unit HeightxWidthxDepth mm 235x960x690 Unit Symbol kg 28 Material At flow 28 Air flow Cooling At high/medium/ man speed man speed 50Hz Heating At high/medium/ man speed man speed Type Cooling At high/medium/low fan speed dBA 54.0/52.0/49.0 Cooling At high/medium/low fan speed dBA 54.0/52.0/49.0 36.0/34.0/31.0 Heating At high/medium/low fan speed dBA 36.0/34.0/31.0 36.0/34.0/31.0 Type/GWP Liquid OD mm Gas OD mm 9.52 Drain Phase/Frequency/Voltage Hz/V Maximum fuse amps (MFA) A Infrared remote control A	FXHA 32A 50A	SOA G3A

NEW



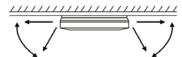
4-way blow ceiling suspended unit

Unique Daikin unit for high rooms with no false ceilings nor free floor space

- > Optimised for R-32 refrigerant
- > Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily without capacity loss
- > Can easily be installed in both new and refurbishment projects
- NEW > Two optional intelligent sensors improve energy efficiency and comfort
 - > Individual flap control: flexibility to suit every room layout without changing the location of the unit!

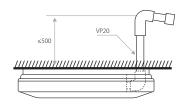


- > Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles
- > Optimum comfort guaranteed with automatic air flow adjustment to the required load
- > 5 different discharge angles between 0 and 60° can be programmed via the remote control





> Standard drain pump with 720mm lift increases flexibility and installation speed



More details and final information can be found by scanning or clicking the QR codes.



					capacity range		
Indoor Unit				FXUA	50A	71A	100A
Cooling capacity	Total capacity	y At high fa	an speed	kW	5.6	8.0	11.2
Heating capacity	Total capacity	At high fa	an speed	kW	6.3	9.0	12.5
Power input – 50Hz	Cooling	At high fa	an speed	kW	0.029	0.055	0.117
	Heating	At high fa	an speed	kW	0.029	0.055	0.117
Dimensions	Unit	HeightxV	WidthxDepth	mm		198x950x950	
Weight	Unit			kg	2	7	28
Casing	Material					Resin	
Fan	Туре					Turbo fan	
	Quantity					1	
	Air flow rate –	Cooling	At high/medium/ low fan speed	m³/min	17.0/14.5/13.0	22.5/18.5/16.0	31.0/25.5/21.0
	50Hz	Heating	At high/medium/ low fan speed	m³/min	17.0/14.5/13.0	22.5/18.5/16.0	31.0/25.5/21.0
Air filter	Туре					Resin net	
Sound power level	Cooling	At high/m	nedium/low fan speed	dBA	55.0/53.0/51.0	58.0/56.0/54.0	65.0/62.0/58.0
	Heating	At high/m	nedium/low fan speed	dBA	55.0/53.0/51.0	58.0/56.0/54.0	65.0/62.0/58.0
Sound pressure	Cooling	At high/m	nedium/low fan speed	dBA	37.0/35.0/33.0	40.0/38.0/36.0	47.0/44.0/40.0
level	Heating	At high/m	nedium/low fan speed	dBA	37.0/35.0/33.0	40.0/38.0/36.0	47.0/44.0/40.0
Refrigerant	Type/GW	Р				R-32/675	
Piping connections	Liquid	OD		mm	6.	.4	9.52
	Gas	OD		mm	12	.7	15.9
	Drain					VP20	
Power supply	Phase/Fre	equency/V	oltage/	Hz/V		1~/50/60/220-240/220	
Current – 50Hz	Maximun	n fuse amp	os (MFA)	Α		6	
Control systems	Infrared r	emote cor	ntrol			BRC7CB58 / BRC7CB59	
	Wired rer	note contr	rol			BRC1H52W/S/K	

NEW







		VRV 5 hea	t recovery	VRV S-series
		REYA8-20 REMA5	2 module systems	RXYSA-AV1/AY1
	Multi-module connection kit (obligatory) - Connects multiple modules into a single refrigerant system		BHFQ23P907	
	Extended level difference kit - Allows outdoor unit to be more than 50m above indoor units			
Kits	Central drain pan kit - Installs onto the underside of the outdoor unit and collects drain water from all bottom plate outlets into a single outlet. In cold areas should be heated by a field-supplied heater to prevent drain water from freezing in the drain pan.			
	Heater tape kit - Optional electrical heater to guarantee trouble-free operation in extremely cold and humid climates (one per outdoor unit needed)	5/8-12: EKBPH012T 14-20: EKBPH020T		EKBPH250D
	External control adapter for outdoor unit - Allows to activate Low Noise Operation and three levels of demand control, limiting power consumption via external dry contacts. Connects to the F1/F2 communication line and requires power supply from an indoor unit, BSVQ box, or VRV-WIII outdoor unit.			DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. For 14-20 HP the demand PCB mouting plate is required. See Options & Accessories of indoor units
Adapters	KRC19-26 Mechanical cool/heat selector – allows to switch an entire Heat Pump system, or one BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the A-B-C terminals of the outdoor unit / BS-box.			•
	Cool/heat selector PCB (required to connect KRC19-26)			Standard on unit
	KKSB26B1* Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)			
	KJB111A Installation box for remote cool/heat selector KRC19-26			•
	EKCHSC - Cool/heat selector cable			
	EKPCCAB4 VRV configurator			•
ers	KKSB26B1* Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.			
Others	DTA109A51 DIII-net expander adapter			
	BPMKS967A2/A3 Branch provider (for connection of 2/3 RA indoor units)			
	EKDK04 Drain plug kit			
	EKLN140A Sound enclosure			•

*Note: blue cells contain preliminary data

			Refne	t Joints		Heat Recovery Branch Selector Boxes (BS-boxes) R-32
		Capacity index	Capacity index	Capacity index	Capacity index	4 to 12 ports R-32
		< 200	200 ≤ x < 290	290 ≤ x < 640	> 640	BS-A14AV1B
Refnets	Imperial-size connections for heat recovery pump (2-pipe)	KHRQ22M20TA	KHRQ22M29T9	KHRQ22M64T	KHRQ22M75T	
Refi	Imperial-size connections for heat recovery pump (2-pipe) (1)	KHRQ23M20T	KHRQ23M29T9	KHRQ23M64T	KHRQ23M75T	
	EKBSVQLNP Sound reduction kit (sound insulation)					
connection with VRV heat recovery system)	KHFP26A100C Closed pipe kit					
heat recovery	Joint kit for branch selector (BS) boxes: To couple 2 BS box branches to connect larger capacity indoor units					EKBSJK
on with VRV	Quiet kit					
connection	K-KDU303KVE Drain pump kit					•
	EKBSDCK Duct connection: To connect extraction of BSSV boxes in serial					•

⁽¹⁾ For metric size connections, contact your local sales responsible





			Ceiling mounte	d cassette units
			Round flow (800x800)	4-way (600x600)
			FXFA-A	FXZA-A
<u>s</u>		Decoration panel (obligatory for cassette units, optional for others, rear panel for FXLQ)	Standard panels: BYCQ140E (white) / BYCQ140EW (full white)(3) / BYCQ140EB (black) Auto cleaning (5)(6): BYCQ140EGF (white) / BYCQ140EGF (black) Designer panels: BYCQ140EPB (black)	R-32 model: BYFQ60C4WIW (white panel) (19) BYFQ60C4W1S (grey panel) (19) BYFQ60B3WI (standard panel) (20)
Panels		Panel spacer for reducing required installation height	pregriozi (mine, y pregriozi p (blacky	KDBQ44B60 (Standard panel)
		Sealing kit for 3- or 2-directional air discharge	KDBHQ56B140 (7)	BDBHQ44C60 (white & grey panel)
		Sensor kit	BRYQ140B (white panels) BRYQ140BB (black panels) BRYQ140C (white designer panel) BRYQ140CB (black designer panel)	R-32 models: BRYQ60A3W (white) BRYQ60A3S (grey)
Individual control	systems	Infrared remote control (incl. receiver)	BRC7FA532F (white panels) (7)(15) BRC7FA532FB (black panels) (7)(15) BRC7FB532F (white designer panel) (7)(15) BRC7FB532FB (black designer panel) (7)(15)	BRC7F530W (9) (10) (white panel) BRC7F530S (9) (10) (grey panel) BRC7EB530W (9) (10) (standard panel)
g i	ž	BRP069C51 – Onecta app	•	•
	v,	Madoka BRC1H52W (White) / BRC1H52S (Silver) / BRC1H52K (Black) User-friendly wired remote controller with premium design	• (mandatory)	• (mandatory)
System & Standard protocol Centralised interfaces	·	DCC601A51 – intelligent Tablet Controller	•	•
entralise control	systems	DCS601C51 (12) – intelligent Touch Controller	•	•
1 i	ÿst	DCS302C51 (12) – Central remote controller	•	•
ŭ	· ·	DCS301B51 (12) (13) – Unified ON/OFF controller	•	•
<u> </u>	<u></u>	RTD-NET – Modbus interface for monitoring and control	•	•
ğ	for individual control	RTD-10 – Modbus interface for infrastructure cooling	•	•
ă	in di	RTD-20 – Modbus interface for retail	•	•
Standard	-E 0	RTD-HO – Modbus interface for hotel	•	•
r g	-	KLIC-DI – KNX Interface	•	•
Sta nte	<u>_</u> _	DCM601A51 – intelligent Touch Manager	•	•
<u>ھ</u>	central	EKMBDXB – Modbus interface	•	•
te n	9 0	DCM010A51 – Daikin PMS interface DMS502A51 – BACnet Interface		•
Š	ئے ت	DMS504B51 – LonWorks Interface	•	•
		Replacement long life filter, non-woven type	KAF5511D160	KAF441C60
Filters		Auto cleaning filter	see decoration panel	
Wiring and	sors	KRCS – External wired temperature sensor	KRCS01-7B	KRCS01-8B
Wirin	sen	K.RSS – External wireless temperature sensor	SB.K.RSS_RFC (EKEWTSC-2 + K.RSS)	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)
		Adapter with 2 output signals (Compressor / Error, Fan output) Adapter with 4 output signals	KRP1BA58 (2)(7)	ERP02A50 (2)
		(Compressor / Error, Fan, Aux. heater, Humidifier output)	EKRP1C12 (2)(7)	EKRP1C14 (2)
Z.		Adapter for centralised external monitoring/control via dry contacts and setpoint control via 0-140 Ω	KRP4A53 (2)(7)	KRP4A53 (2)
Adapters		Adapter for external central monitoring/control (controls 1 entire system)		KRP2A52
da		Adapter for keycard and/or window contact connection (2)(11)	BRP7A53	BRP7A53 (2)
⋖		External control adapter for outdoor unit (installation on indoor unit) Installation box / Mounting plate for adapter PCBs	KRP1H98A (7)	KRP1BB101
		(For units where there is no space in the switchbox)	KRP1B96A (7) KRP1BC101	KRP1BC101
		Wiring kit for Remote ON/OFF or Forced OFF	Standard	Standard
		Relay PCB for output signal of refrigerant sensor	ERP01A51 (2)	ERP01A50 (2)
		Drain pump kit	Standard	Standard
		Fresh air intake kit (direct installation type)	KDDP55C160-1 + KDDP55D160-2 (7)(8)	KDDQ44XA60
Others		Air discharge adapter for round duct	1.501.35C100-1+ 1.00F330100-2 (7)(0)	UUNAFFYUUN
		L-type piping kit		

⁽¹⁾ Pump station is necessary for this option
(2) Installation box is necessary for these adapters
(3) The BYCQ140EW has white insulation. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140EW decoration panel in environments exposed to concentrations of dirt*
(4) Not recommended because of the limitation of the functions

⁽⁵⁾ To be able to control the BYCQ140EGF(B) the controller BRC1E or BRC1H* is needed
(6) The BYCQ140EGF(B) is not compatible with Multi and Split Non-Inverter Outdoor units
(7) Option not available in combination with BYCQ140EGF(B)
(8) Both parts of the fresh air intake are needed for each unit

⁽⁹⁾ Cannot be combined with sensor kit (10) Independently controllable flaps function not available

	oncealed ceiling units (duct ur			spended units	Wall mounted units
Slim	Medium ESP	High ESP	1-way blow	4-way blow	
FXDA-A	FXSA-A	FXMA-A	FXHA-A	FXUA-A	FXAA-A
				KDBHP49B140 + KDBTP49B140	
				BRE49B2F	
BRC4C65	BRC4C65	BRC4C65	BRC7GA53-9	BRC7C58	BRC7EA630
•	•	•	•	•	•
• (mandatory)	• (mandatory)	• (mandatory)	• (mandatory)	• (mandatory)	•(mandatory)
•	•	•	•	•	•
•	•	•	•	•	•
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•	•	•	•	•	•
		200~250: BAFL502A250 (20)	32: KAFP501A56 50~63: KAFP501A80 100: KAFP501A160	KAFP551K160	
15-32: BAE20A62 40-50: BAE20A82 63: BAE20A102			100. 1041 301/1100		
KRCS01-8B	KRCS01-8B	KRCS01-8B	KRCS01-8B	KRCS01-8B	KRCS01-8B
SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	K.RSS_FDA (EKEWTSC-1 + K.RSS)	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	•	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)
			KRP1BA58		
ERP02A50 (2)	EKRP1C14 (2)	EKRP1C14 (2)		EKRP1C14 (2)	ERP02A50 (2)
KRP4A54-9 (2)	KRP4A52(2)	50~125: KRP4A52 200~250: KRP4A51	KRP4A52 (2)	KRP4A53 (2)	KRP4A51 (2)
KRP2A53 (2)	KRP2A51(2)	KRP2A51	KRP2A62		KRP2A61(2)
BRP7A54 DTA104A53	BRP7A51 DTA104A61 (2)	BRP7A51 DTA104A61 (2)	BRP7A52 (2) DTA104A61	BRP7A53	BRP7A51 (2)
KRP1BB101	KRP1BC101	KRP1BC101	KRP1D93A/KRP4B93	KRP1B97	DTA104A51(2) / DTA104A61(2) KRP4A93
	Standard	Standard	standard	standard	Standard
ERP01A51 (2)	ERP01A50 (2)	ERP01A50	ERP01A51 (2)	ERP01A51 (2)	ERP01A51 (2)
Standard	Standard	200~250: BDU510B250VM	32-50-63: KDU50R63 100: KDU50R160 KDDQ50A140		K-KDU572KVE
	15~32: KDAP25A36A 40~50: KDAP25A56A 63~80: KDAP25A71A 100~125: KDAP25A140A 140: -	50~80: KDAJ25K71 100~125: KDAJ25K140 200~250: -	1.00 200 1110		
			32: KHFP5M35 50~63: KHFP5N63 100: KHFP5N160		

⁽¹¹⁾ Only possible in combination with BRC1H* / BRC1E*
(12) When fixing box is required, use KJB212A, KJB311A or KJB411A depending on the size of the controller
(13) Option KEK26-1A (Noise filter) is required when installing DCS301B51
(14) Wire harnass EKEWTSC is necessary
(15) The active airflow circulation function is not available for this controller.
(16) Up to 2 adaptor PCBs can be installed per installation box

⁽¹⁷⁾ Only one installation box can be installed per indoor unit
(18) VRV R-32 indoor units cannot be connected to this controller
(19) The BYFQ60C4* R-32 panels can be connected to R-410A indoor units with wire harness EKRS22
(20) Wire harness EKRS23 is necessary







The most extensive VRV range on the market



VRV i-series



VRV S-series



VRV W-series



Heat recovery, heat pump and replacement series

Supporting a circular economy of refrigerants



Towards a circular economy of refrigerants

With $L\infty P$ by Daikin we want to step away from producing more waste. Instead we will reuse what is already available, in a qualitative way.

For units produced and sold in Europe

- > Exclusive to Daikin reclaimed gas is now used in our units
- Administratively allocated to VRV and chillers produced and sold in Europe

In this way we use reclaimed refrigerant and avoid already 400,000 kg of virgin gas being produced each year!

For every application, a solution



Heat recovery with unique 3-pipe technology



Heat pump models with unique continuous heating during defrost



Dedicated **hot and cold climate** heat pumps offering efficient cooling up to 52°C and heating down to -25°C



Space saving mini VRV solutions, offering the most compact VRV



The invisible VRV,
a unique solution when
the outdoor unit must
be compact and completely
invisible



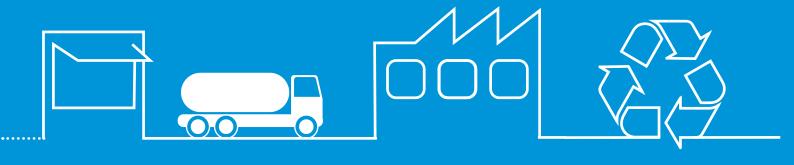
Replacement solutions to replace existing systems in the most cost-effective way



Water-cooled heat recovery and heat pump units, ideal for high rise buildings using water as heat source



A complete total solution integrating a wide range of indoor units, air curtains, hot water hydroboxes and ventilation units including air handling units



Recover

We recover your **old refrigerant** for you from any unit and any brand.

Reclaim

The refrigerant is reclaimed in Europe, meaning regenerated in a **high-quality** way, in line with F-gas regulation definition.

Reuse

The reclaimed refrigerant is mixed with virgin refrigerant. The refrigerant's quality is **certified** by an independent laboratory. It meets AHRI 700 certified standards.

Products overview IN IV LOOP (1)





	Model		Product name	4	5	6	8	10	12	13	14	16	18	20	22	24	26	28	30
Air cooled - heat recovery	VRV IV heat recovery	Best efficiency & comfort solution > Fully integrated solution with heat recovery for maximum efficiency > Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains > "Free" heating and hot water through heat recovery > The perfect personal comfort for guests/tenants via simultaneous cooling and heating > Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature and continuous heating > Allows technical cooling > Widest range of BS boxes on the market	REYQ-U VRV IV*				•	•	•	•	•	•	•	•	•	•	•	•	•
	heat pump ontinuous eating	Daikin's optimum solution with top comfort > Continuous heating during defrost > Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains > Connectable to stylish indoor units (Daikin Emura, Stylish,) > Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature and continuous heating	RYYQ-U VRV IV+				•	•	•		•	•	•	•	•	•	•	•	•
	IV heat pump out continuous heating	Daikin's solution for comfort & low energy consumption Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains Connectable to stylish indoor units (Daikin Emura, Stylish,) Incorporates VRV IV standards & technologies such as	RXYQ-U VRV IV+				•	•	•		•	•	•	•	•	•	•	•	•
ıt pump	VRVIV-S series Compact	Variable Refrigerant temperature The most compact VRV > Compact and lightweight single fan design saves space and is easy to install > Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains > Either connect VRV of stylish indoor units (Daikin Emura, Stylish,) > Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYSCQ-TV1 VRV IV S-series Compact	•	•	•													
Air cooled - heat pump	VRVIV- series	Space saving solution without compromising on efficiency > Space saving trunk design for flexible installation > Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains > Either connect VRV of stylish indoor units (Daikin Emura, Stylish,) > Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYSQ-TV9/ TY9/TY1 \$\mathcal{YRY} IV \ S-series \ TY9/ TY1	•	•	•	•	•	•		:					:			
	RV IVheat sump for or installation	The invisible VRV > Unique VRV heat pump for indoor installation > Total flexibility for any shop location and building type as the outdoor unit is invisible and split up in 2 parts > Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature > Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation and Biddle air curtains	SB.RKXYQ-T(8) VRV IV i-series		•		•												
	heat pur ptimised old climat	Where heating is priority without compromising on efficiency > Suitable for single source heating > Extended operation range down to -25°C in heating > Stable heating capacity without any capacity loss down to -15°C > Very economical solution as a smaller outdoor unit model can be used compared to the standard series	RXYLQ-T					•	•		•	•	•	•	•	•	•	•	•
lent	aat reco	Quick & quality replacement for R-22 and R-407C systems > Cost-effective and fast replacement through re-use of exisiting piping > Drastically improve your comfort, efficiency and reliability > No interuption of daily business while replacing your system > Replace Daikin and other manufacturers systems safely	RQCEQ-P3					•		•		•	•	•	•	•	•	•	•
Replacement	eat pump	Quick & quality replacement for R-22 and R-407C systems > Cost-effective and fast replacement through re-use of exisiting piping > Drastically improve your comfort, efficiency and reliability > No interuption of daily business while replacing your system > Replace Daikin and other manufacturers systems safely > Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYQQ-U YRY IV Q*series		•		•	•	•		•	•	•	•	•	•	•	•	•
Water cooled	Water cooled VRV IV	Ideal for high rise buildings, using water as heat source > Reduced CO, emissions thanks to the use of geothermal energy as a renewable energy source > No need for an external heating or cooling source when used in geothermal mode > Compact & lightweight design can be stacked for maximum space saving > Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature > Variable Water Flow control option increases flexibility and control > Mixed connection of HT hydroboxes and VRV indoor units > Either connect VRV of stylish indoor units (Daikin Emura, Stylish,) > 2 analogue input signals allowing external control	RWEYQ-T9* VRY IV W series				•	•	•		•	•	•	•	•	•	•	•	•

Ranges marked with *** are not Eurovent certified. Multi combinations are not in scope of the Eurovent certification programme (I) LOOP by Daikin is applicable for VRV units produced and sold in Europe (EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland). RXYSCQ-TVI, RXYSQ8-10-12TYI and RQCEQ-P3 are not part of the LOOP by Daikin programme.

1									Caj	pacit	y (Hl	P)			VRV indoor units	Residential indoor units	LT Hydrobox HXY-A	HT Hydrobox HXHD-A	HRV units VAM-, VKM-	J connection (V- + EKEQMCBA	AHU connection EKEXV-+ EKEQFCBA	Air curtains CYV-DK-	
Mathematical Control of Control	32	34	36	38	40	42	44	46	48	50	52	54	4 De	escription / Combination	×.	Resi	Ė	토	HRV	HE AH	AH EKE	Αï	Remarks
WITH LIMIT Hydroboxes													V	'RV IV + Heat Recovery REYQ	0		0	0					> Standard total system connection ratio limit: 50 ~ 130%
HRV units VAM., VAM.													w	vith only VRV indoor units	✓								
March Marc													w	vith LT/HT Hydroboxes	✓		✓	✓	✓				Max 32 indoor units, even on 16HP and larger systems Total system connection ratio with HT hydroboxes up to 200% possible
## AND COMPACTION PROCESS AND													Н	IRV units VAM-, VKM-	✓		✓	✓	✓	✓		✓	> Dedicated systems (with only ventilation units) not allowed -
VRY IV- Heat Pump (RYYQ/IXYC)	•	•	•	•	•	•	•	•	•	•	•	•	Al	.HU connection EKEXV + EKEQMCBA	✓				√	√		√	a mix with standard VRV indoor units is always necessary
With only VRY Indoor units													Bi	iddle air curtain CYV-DK-	✓				√	✓		√	> Total system connection ratio with AHU is 50 ~ 110%
with only VRV indoor units												T	v	/RV IV+ Heat Pump (RYYQ/RXYQ)	0	0	0		0	0	0	0	> Standard total system connection ratio limit: 50 ~ 130%
with residential indoor units With LT Hydroboxes														-									> 200% total system connection ratio possible under special circumstances
With CHydroboxes												H											> Only single-module systems (RYYQ 8~20 T / RXYQ 8~20 T)
HRV units VAM., VKM AHU connection EKEXV + EKEQEBA	•	•	•	•	•	•	•	•	•	•	•	•		vith residential indoor units	✓	√							Connection ratio: 80 ~ 130%
AHU connection EXEXV + EXEQUICEDA With VRV Indoor units only With vresidential indoor units only With vresidential indoor units only VRV IV - Series SR REXVIQ With vresidential indoor units only With vresidential indoor units With vresidential indoor units indoor vresidential indoor un	ļ			l				ļ			ļ		w	vith LT Hydroboxes	✓		✓						
AHU connection EXEXV + EXCOPCIBA A WILL FIRST MISS AND A MILL OF Series REPLACED BASES AND A MILL OF SERIES AND A													Н	IRV units VAM-, VKM-	✓	\checkmark	✓		\checkmark	✓		\checkmark	
AFU Connection EKEXY + EKEQFCBA AFU Connection EKEXY + EKEQFCBA													Al	.HU connection EKEXV + EKEQMCBA	\checkmark				\checkmark	✓		\checkmark	N. Tarahambara asara ari sa ari sa ari ka M. M. S. G. (1907)
Biddle air curtain CYV-DR. VRV IV-S RXYSQ-/RXYSQ- With VRV indoor units only With residential indoor units only VRV IV-S series SS.RKXYQ VRV IV-S series SS.RKXYQ VRV IV-C' series SS.RKXYQ VRV IV-C' series RXYLQ With VRV indoor units only VRV IV-C' series RXYLQ With VRV indoor units only VRV IV-C' series RXYLQ With VRV indoor units only With Tribydroboxes A-HU connection EKEXV + EKEQFCBA A-HU conn														.HU connection EKEXV + EKEQFCBA							✓		7 Total system connection ratio with AHU is 50 ~ 110%
with VRV indoor units only VRV IV i series SB.RKXYQ VRV II											•		-	iddle air curtain CYV-DK-	✓				✓	✓		✓	
													V	/RV IV-S RXYSQ-/RXYSCQ-	0	0			0	0		0	> Standard total system connection ratio limit: 50 ~ 130%
VRV IV i series SB.RKXYQ VRV IV-C* series RXYLQ VRV IV-Q* Expended total system connection ratio limit: 50 – 180% VRV IV-Q* series Replacement H/R VRV IV-Q* series Replacement H/P RXYQQ VRV IV-Q* Replacement H/P RXYQQ VRV IV-Q* Replacement H/P RXYQQ VRV IV-W* series Water-cooled VRV													w	vith VRV indoor units only	✓				✓	✓		✓	
VRV IV-C' series RXYLQ													w	vith residential indoor units only		✓							> With residential indoor: connection ratio limit: 80 ~ 130%
with VRV indoor units only with residential indoor units only with LT hydroboxes AHU connection EKEXV + EKEQMCBA AHU connection EKEXV + EKEQMCBA AHU connection EKEXV + EKEQFCBA AHU connection EXEXV + EKEQFCBA AHU connection AHU con													V	(RV IV i series SB.RKXYQ	✓				✓	✓		✓	
with residential indoor units only with LT hydroboxes AHU connection EKEXV + EKEQMCBA AHU connection EKEXV + EKEQMCBA AHU connection EKEXV + EKEQFCBA AHU conn												T	٧	'RV IV-C + series RXYLQ	0	0	0		0	0	0	0	> Standard total system connection ratio limit: 70 ~ 130%
with LT hydroboxes AHU connection EKEXV + EKEQMCBA AHU connection EKEXV + EKEQFCBA AHU connection EKEXV + EKEQFCBA VRV III-Q* series Replacement H/R RQCEQ VRV IV-Q Replacement H/P RXYQQ VRV IV-Q Replacement H/P RXYQQ VRV IV-W* series Water-cooled VRV With AHU only connection ration is 90-110% VRV IV-Q Replacement H/P RXYQQ VRV IV-Q Replacement H/P RXYQQ VRV IV-W* series Water-cooled VRV With AHU only connection ratio is 90-110% VRV III-Q* Series Replacement H/P RXYQQ VRV IV-Q Replacement H/P RXYQQ VRV IV-W* series Water-cooled VRV With AHU only connection ratio is 90-110% VRV III-Q* Series Replacement H/P RXYQQ VRV IV-Q Replacement H/P RXYQQ VRV IV-Q Replacement H/P RXYQQ VRV IV-W* series Water-cooled VRV With AHU only connection ratio is 90-110% VRV III-Q* Series Replacement H/P RXYQQ VRV IV-Q Replacement H/P RXYQQ VRV IV-Q Replacement H/P RXYQQ VRV IV-W* series Water-cooled VRV With AHU only index on extend or in the index of the													w	vith VRV indoor units only	✓				✓			✓	
with LT hydroboxes AHU connection EKEXV + EKEQMCBA AHU connection EKEXV + EKEQMCBA AHU connection EKEXV + EKEQFCBA AHU connection EKEXV + EKEQFCBA VRV III-Q* series Replacement H/R RQCEQ VRV IV-Q Replacement H/P RXYQQ VRV IV-Q Replacement H/P RXYQQ VRV IV-W* series Water-cooled VRV With AHU only connection ratio is 90-110% > Standard total system connection ratio limit: 50 - 180% VRV III-Q* series Water-cooled VRV RXYQQ VRV IV-W* series Water-cooled VRV With VRV indoor units	•	•	•	•	•	•								,		✓							
AHU connection EKEXV + EKEQFCBA VRV III-Q* series Replacement H/R VRV IV-Q Replacement H/P RXYQQ VRV IV-W* series Water-cooled VRV With AHU connection ratio limit: 50 ~ 130% VRV IV-W* series Water-cooled VRV With VRV indoor units With AHU connection ratio limit: 50 ~ 130% Standard total system connection ratio limit: 50 ~ 130% VRV IV-W* series Water-cooled VRV With VRV indoor units With AHU connection ratio limit: 50 ~ 130%														· · · · · · · · · · · · · · · · · · ·			✓						<u> </u>
VRV III-Q* series Replacement H/R RQCEQ VRV IV-Q Replacement H/P RXYQQ VRV IV-W* series Water-cooled VRV RWEYQ With VRV indoor units VRV IV-W* series Water-cooled VRV With split indoor units VRV IV-W* series Water-cooled VRV RWEYQ With VRV indoor units VRV IV-W* series Water-cooled VRV RWEYQ With VRV indoor units VRV IV-W* series Water-cooled VRV RWEYQ With VRV indoor units VRV IV-W* series Water-cooled VRV RWEYQ With VRV indoor units VRV IV-W* series Water-cooled VRV RWEYQ With VRV indoor units VRV IV-W* series Water-cooled VRV RWEYQ With VRV indoor units VRV IV-Q Replacement H/P RXYQQ VRV IV-W* series Water-cooled VRV RWEYQ With VRV indoor units VRV IV-Q Replacement H/P RXYQQ VRV IV-W* series Water-cooled VRV RWEYQ With VRV indoor units VRV IV-Q Replacement H/P RXYQQ VRV IV-W* series Water-cooled VRV RWEYQ With VRV indoor units VRV IV-Q Replacement H/P RXYQQ VRV IV-W* series Water-cooled VRV RWEYQ With VRV indoor units VRV IV-Q Replacement H/P RXYQQ VRV IV-W* series Water-cooled VRV RWEYQ With VRV indoor units VRV IV-W* series Water-cooled VRV RWEYQ With VRV indoor units VRV IV-W* series Water-cooled VRV RWEYQ With VRV indoor units VRV IV-W* series Water-cooled VRV RWEYQ With VRV indoor units VRV IV-W* series Water-cooled VRV RWEYQ With VRV indoor units VRV IV-W* series Water-cooled VRV RWEYQ With VRV indoor units VRV IV-W* series Water-cooled VRV RWEYQ With VRV indoor units VRV IV-W* series Water-cooled VRV RWEYQ With VRV indoor units VRV IV-W* Standard total system connection ratio limit: 50 ~ 130%														-					√	V	V	√	
RXYQQ V V ratio limit: 50 ~ 130% VRV IV-W* series Water-cooled VRV Q Q Q Q > Standard total system connection ratio limit: 50 ~ 130% RWEYQ with VRV indoor units V V V V V V with split indoor units V V V V V V V with split indoor units V V V V V V V V V V V V V V V V V V V													v	/RV III-Q+ series Replacement H/R					✓				> Standard total system connection
RWEYQ with VRV indoor units v v v v v with split indoor units with split indoor units v v v v v Nax 32 indoor units SO ~ 130% Connection ratio: 80 ~ 130% only single-module systems (RWEYQ8-14T9) Nax 32 indoor units SO ~ 130% only single-module systems (RWEYQ8-14T9) Nax 32 indoor units SO ~ 130% only in heat pump version v v v v v v v v v v v v v v v v v v v	•	•	•	•	•	•									✓				✓	✓		✓	
with split indoor units V V V Sonly single-module systems (RWEYQ8-14T9) Max 32 Indoor units 130% Convention addition 130% Convention and too 130% Convention and too 130% Only in feet pump version V V V V V V V V V													R۱	WEYQ		0							> Standard total system connection ratio limit: 50 ~ 130%
with HT hydrobox ALU connection A ULL connecti													W	vith VKV indoor units	✓			✓	✓	✓	√		> Only single-module systems (RWFYOR-14T9)
with HT hydrobox ANU connection ANU connecti													w	vith split indoor units	✓	$ \checkmark $			✓				Max 32 indoor units Connection ratio: 80 ~ 130% only in heat pump version
	•	•	•	•	•	•							w	vith HT hydrobox	✓			✓					
													A	HU connection	✓					✓			

 $[{]f O}_-$ connection of indoor unit possible, but not neccessarily simultaneously with other allowed indoor units ${f v}_-$ connection of indoor unit possible even simultaneously with other checked units in the same row ${f x}_-$ connection of indoor not possible on this outdoor unit system



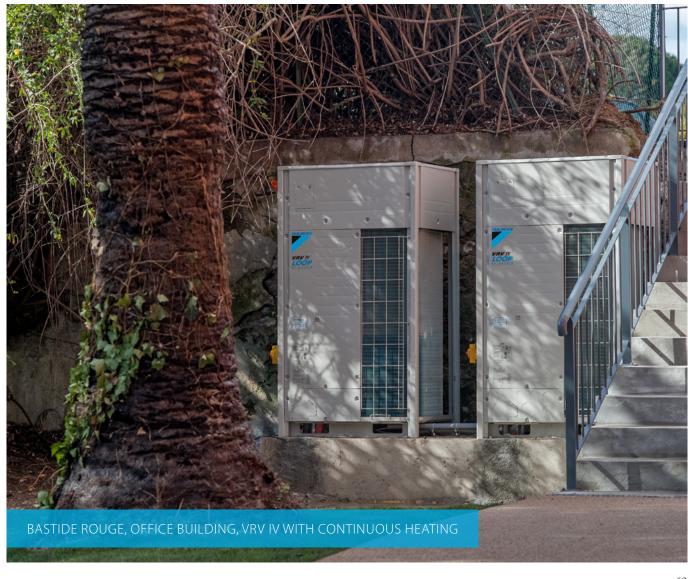












VRV IV+ heat recovery

Best efficiency and comfort solution





VRV IV standards:

Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

Continuous heating

The new standard in heating comfort

VRV configurator

Software for simplified commissioning, configuration and customisation

- > 7 segment display
- > Automatic refrigerant charge
- > Refrigerant containment check
- > Night quiet mode
- > Low noise function
- > Connectable to LT hydrobox for hot water
- > Connectable to HT hydrobox for hot water
- > Full inverter compressors
- > Gas cooled PCB
- > 4 side heat exchanger
- > Reluctance brushless DC compressor
- > Sine wave DC inverter
- > DC fan motor
- > E-pass heat exchanger
- > I demand function
- > Manual demand function

VRV IV BS boxes

Maximum design flexibility and installation speed

- > Quickly and flexibly design your system with a unique range of single and multi BS boxes.
- A wide variety of compact and lightweight multi BS boxes greatly reduces installation time.
- > Free combination of single and multi BS boxes

Single port

- > Unique to the market
- > Compact and light to install
- > No drain piping needed
- > Ideal for remote rooms
- > Technical cooling function
- > Connect up to 250 class unit (28 kW)
- > Allows multi-tenant applications

Multi port: 4 - 6 - 8 - 10 - 12 - 16

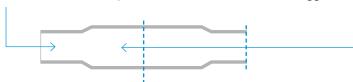
- > Up to 55% smaller and 41% lighter than previous range
- Faster installation thanks to a reduced number of brazing points and wiring
- > All indoor units connectable to one BS box
- > Fewer inspection ports needed
- > Up to 16 kW capacity available per port
- Connect up to 250 class unit (28kW) by combining 2 ports
- > No limit on unused ports, permitting phased installation
- > Allows multi-tenant applications





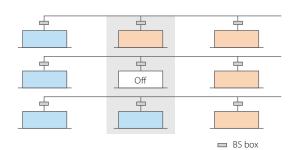
Faster installation thanks to open connection

- No need to cut the pipe before brazing for indoor units smaller or equal to 5.6 kW (50 class)
- > Cut and braze the pipe for indoor units bigger or equal to 7.1 kW (63 class)



Maximum comfort at all times

With the VRV BS box, any indoor unit not being used to switch between heating and cooling maintains the constant desired temperature. This is because our heat recovery system does not need to equalise pressure over the entire system after a change-over.



VRV IV+ heat recovery

Best efficiency & comfort solution

- > Fully integrated solution with heat recovery for maximum efficiency with COPs of up to 8!
- > Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains
- > "Free" heating and hot water production provided by transferring heat from areas requiring cooling to areas requiring heating or hot
- > The perfect personal comfort for guests/tenants via simultaneous cooling and heating
- > Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, continuous heating, VRV configurator, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB, new DC fan motor
- > Outdoor unit display for quick on-site settings and easy read out of errors together with the indication of service parameters for checking basic functions.

- > Free combination of outdoor units to meet installation space or efficiency requirements
- > Wide piping flexibility: 30m indoor height difference, maximum piping length: 190m, total piping length: 1,000m
- > Possibility to extend the operation range in cooling down to -20°C for technical cooling operation such as server rooms
- > Contains all standard VRV features





and sold in Europe*



Already fully compliant to LOT 21 - Tier 2

Published data with real-life indoor units

Outdoor unit			REYQ	8U		10U	12	U	14U	1	16U	18U		20U
Capacity range			HP	8		10	12	2	14		16	18		20
Cooling capacity	Prated,c		kW	22.4		28.0	33.	.5	40.0		15.0	50.4		52.0
Heating capacity	Prated,h		kW	22.4		28.0	33.	.5	40.0		15.0	50.4		56.0
	Max.	6°CWB	kW	25.0		31.5	37.	.5	45.0	5	50.0	56.5		63.0
Recommended co	mbination			4 x FXFQ5	DAVEB 4 x F	XFQ63AVE	B 6 x FXFQ		x FXFQ50AVE 5 x FXFQ63AV					
ηs,c			%	286.	ı	264.8	257		255.8	_	43.1	250.6		246.7
ηs,h			%	165.1		169.7	183	.8	168.3	1	67.5	172.5		162.7
SEER				7.2		6.7		6.5			6.2	6.3		6.2
SCOP				4.2		4.3	4.	7		4.3		4.4		4.1
Maximum number	of connec	table indoor units			'				64 (1)					
Indoor index	Min.			100.0)	125.0	150	0.0	175.0	2	0.00	225.0		250.0
connection	Max.			260.0)	325.0	390	0.0	455.0	5	20.0	585.0		650.0
Dimensions	Unit	HeightxWidthxDepth	mm		1,68	35x930x765	5				1,685x1,2			
Weight	Unit		kg		,	230				314			317	
Sound power level	Cooling	Nom.	dBA	78.0		79.1	83	.4	80.9	3	35.6	83.8		87.9
	Heating	Prated.h	dBA	79.6		80.9	83		83.9	_	36.9	85.3		89.8
Sound pressure leve		Nom.	dBA		57.0		61.	.0	60.0	-	53.0	62.0		65.0
Operation range	Cooling	Min.~Max.	°CDB						-5.0 ~43.0					
	Heating	Min.~Max.	°CWB						-20.0 ~15.5					
Refrigerant	Type/GW								R-410A/2,087	7.5				
	Charge		kg/TCO2Eg	9.7 /20).2	9.8 /20.5	9.9 /				11.8 /	24.6		
Piping connection		OD	mm	J., 720	9.5	, 2015	312 71	2017	12.7				15.9	
pg comccon	Gas	OD	mm	19.1		22.2			,	7	28.6		.5.5	
	HP/LP gas		mm	15.9			19.1				22.2			28.6
		g System Actual	m						1,000					
Power supply		equency/Voltage	Hz/V					3	N~/50 /380-	415				
Current - 50Hz		n fuse amps (MFA)	Α	20		25		32			40	0		50
Outdoor unit syst	-		REYQ	10U	13U	16U	18U	20U	22U	24U	26U	28U	30U	32U
System		unit module 1	REIQ		IQ5U	100	REYO8U	200	REYO10U		200	REYO12U	300	REYO16U
System		unit module 2		REMQ5U		Q8U	REYQ10U	DE,	YQ12U		DEVO14I	J REYQ16U	DEVO101	
	Outuoui	unit module 2				-		20	22	24	26	28		32
Canacity range			⊔D		12		10						20	
	Prated c		HP	10 28.0	13	16	18		61.5				30	90.0
Cooling capacity	Prated,c		kW	28.0	36.4	44.8	50.4	55.9	61.5	67.4	73.5	78.5	83.9	90.0
	Prated,h	6°CWR	kW kW	28.0 28.0	36.4 36.4	44.8 44.8	50.4 50.4	55.9 55.9	61.5	67.4 67.4	73.5 73.5	78.5 78.5	83.9 83.9	90.0
Capacity range Cooling capacity Heating capacity Recommended co	Prated,h Max.	6°CWB	kW	28.0 28.0 32.0	36.4 36.4 41.0	44.8 44.8 50.0 4xFXFQ63AVEB+	50.4 50.4 56.5	55.9 55.9 62.5	61.5 69.0 B 6xFXFQ50AVEB+	67.4 67.4 75.0	73.5 73.5 82.5 7x FXFQ50AVEB	78.5 78.5 87.5	83.9 83.9 94.0 9xFXFQ50AVEB	90.0 100.0 + 8 x FXFQ63AVEB
Cooling capacity Heating capacity Recommended co	Prated,h Max.		kW kW	28.0 28.0 32.0	36.4 36.4 41.0 3xFXFQ50AVEB+	44.8 44.8 50.0 4xFXFQ63AVEB+	50.4 50.4 56.5 4x FXFQ50AVEB+	55.9 55.9 62.5	61.5 69.0 B 6xFXFQ50AVEB+	67.4 67.4 75.0 4 x F X F Q 50 A V E B + 4 x F X F Q 63 A V E B +	73.5 73.5 82.5 7x FXFQ50AVEB	78.5 78.5 87.5 + 6x FXFQ50AVEB + 3 4x FXFQ63AVEB +	83.9 83.9 94.0 9xFXFQ50AVEB	90.0 100.0 + 8 x FXFQ63AVEB
Cooling capacity Heating capacity Recommended coo ns,c	Prated,h Max.		kW kW kW	28.0 28.0 32.0 4xFXFQ63AVEB	36.4 36.4 41.0 3xFXFQ50AVEB+ 3xFXFQ63AVEB	44.8 44.8 50.0 4xFXFQ63AVEB+ 2xFXFQ80AVEB	50.4 50.4 56.5 4xFXFQ50AVEB+ 4xFXFQ63AVEB	55.9 55.9 62.5 10 x FXFQ50AVE	61.5 69.0 B 6xFXFQ50AVEB+ 4xFXFQ63AVEB	67.4 67.4 75.0 4xfXFQ50AVEB+ 4xfXFQ63AVEB+ 2xfXFQ80AVEB	73.5 73.5 82.5 7x FXFQ50AVEB 5x FXFQ63AVEB	78.5 78.5 87.5 + 6xFXFQ50AVEB+ 3 4xFXFQ63AVEB+ 2xFXFQ80AVEB	83.9 83.9 94.0 9xFXFQ50AVEB 5xFXFQ63AVEB	90.0 100.0 + 8 x FXFQ63AVEB - 4 x FXFQ80AVEB
Cooling capacity Heating capacity Recommended coo ns,c	Prated,h Max.		kW kW kW	28.0 28.0 32.0 4xFXFQ63AVEB 275.1	36.4 36.4 41.0 3xFXFQ50AVEB+ 3xFXFQ63AVEB	44.8 44.8 50.0 4xFXFQ63AVEB+ 2xFXFQ80AVEB	50.4 50.4 56.5 4x FXFQ50AVEB + 4x FXFQ63AVEB 272.9	55.9 55.9 62.5 10 x FXFQ50AVE	61.5 69.0 8 6xFXFQ50AVEB+ 4xFXFQ63AVEB	67.4 67.4 75.0 4xfxfq5aveb + 4xfxfq63aveb + 2xfxfq80aveb 257.7 167.6	73.5 73.5 82.5 7x FXFQ50AVEB 5x FXFQ63AVEB	78.5 78.5 87.5 + 6x FXFQ50AVEB+ 3 4x FXFQ63AVEB+ 2x FXFQ80AVEB 251.9	83.9 83.9 94.0 9x FXFQ50AVEB 5x FXFQ63AVEE	90.0 100.0 + 8 x FXFQ63AVEB 4 x FXFQ80AVEB
Cooling capacity Heating capacity Recommended coo ns,c ns,h	Prated,h Max.		kW kW kW	28.0 28.0 32.0 4xFXFQ63AVEB 275.1 158.8	36.4 36.4 41.0 3xFXFQ50AVEB+ 3xFXFQ63AVEB 301.3 160.6	44.8 44.8 50.0 4xFXFQ63AVEB + 2xFXFQ80AVEB 288.6 168.2	50.4 50.4 56.5 4xFXFQSOAVEB+ 4xFXFQ63AVEB 272.9 167.9 6.9	55.9 55.9 62.5 10x FXFQ50AVE 266.0 175.7 6.7	61.5 69.0 6 6 XFXFQ50AVEB + 4 XFXFQ63AVEB 260.4 178.5	67.4 67.4 75.0 4xfxfq5aveb + 4xfxfq63aveb + 2xfxfq80aveb 257.7 167.6	73.5 73.5 82.5 7xFXFQ50AVEB 5xFXFQ63AVEB 257.5 175.5	78.5 78.5 87.5 + 6x FXFQ50AVEB + 3 4x FXFQ63AVEB + 2x FXFQ80AVEB 251.9 174.8	83.9 83.9 94.0 9xFXFQ50AVEB 5xFXFQ63AVEE 266.8 179.4	90.0 100.0 + 8x FXFQ63AVEB- 4x FXFQ80AVEB 243.1 169.1
Cooling capacity Heating capacity Recommended coo ns,c ns,h SEER SCOP	Prated,h Max. mbination		kW kW kW	28.0 28.0 32.0 4xFXFQ63AVEB 275.1 158.8 7.0	36.4 36.4 41.0 3xFXFQ50AVEB+ 3xFXFQ63AVEB 301.3 160.6 7.6	44.8 44.8 50.0 4xFXFQ63AVEB+ 2xFXFQ80AVEB 288.6 168.2 7.3	50.4 50.4 56.5 4xFXFQSOAVEB+ 4xFXFQ63AVEB 272.9 167.9 6.9	55.9 55.9 62.5 10x FXFQ50AVE 266.0 175.7 6.7	61.5 69.0 6 xFXFQ50AVEB + 4xFXFQ63AVEB 260.4 178.5 6.6	67.4 67.4 75.0 4xfxfq5aAvEB + 4xfxfq63AVEB + 2xfxfq80AVEB 257.7 167.6	73.5 73.5 82.5 7XFXFQ50AVEB 5XFXFQ63AVEB 257.5 175.5	78.5 78.5 87.5 + 6xFXFQ50AVEB+ 3 4xFXFQ63AVEB+ 2xFXFQ80AVEB 251.9 174.8 6.4	83.9 83.9 94.0 9xFXFQ50AVEB 5xFXFQ63AVEE 266.8 179.4 6.7	90.0 100.0 + 8xFXFQ63AVEB- 3 4xFXFQ80AVEB 243.1 169.1 6.2
Cooling capacity Heating capacity Recommended coo ns,c ns,h SEER	Prated,h Max. mbination		kW kW kW	28.0 28.0 32.0 4xFXFQ63AVEB 275.1 158.8 7.0	36.4 36.4 41.0 3xFXFQ50AVEB+ 3xFXFQ63AVEB 301.3 160.6 7.6	44.8 44.8 50.0 4xFXFQ63AVEB+ 2xFXFQ80AVEB 288.6 168.2 7.3	50.4 50.4 56.5 4xFXFQSOAVEB+ 4xFXFQ63AVEB 272.9 167.9 6.9	55.9 55.9 62.5 10x FXFQ50AVE 266.0 175.7 6.7	61.5 69.0 8 6xFXFQSOAVEB+ 4xFXFQ63AVEB 260.4 178.5 6.6	67.4 67.4 75.0 4xfxfq5aAvEB + 4xfxfq63AVEB + 2xfxfq80AVEB 257.7 167.6	73.5 73.5 82.5 7XFXFQ50AVEB 5XFXFQ63AVEB 257.5 175.5	78.5 78.5 87.5 + 6xFXFQ50AVEB+ 3 4xFXFQ63AVEB+ 2xFXFQ80AVEB 251.9 174.8 6.4	83.9 83.9 94.0 9xFXFQ50AVEB 5xFXFQ63AVEE 266.8 179.4 6.7	90.0 100.0 + 8xFXFQ63AVEB- 3 4xFXFQ80AVEB 243.1 169.1 6.2
Cooling capacity Heating capacity Recommended coo ns.c ns.h SEER SCOP Maximum number	Prated,h Max. mbination		kW kW kW	28.0 28.0 32.0 4xFXFQ63AVEB 275.1 158.8 7.0 4.0	36.4 36.4 41.0 3xFXFQ50AVEB+ 3xFXFQ63AVEB 301.3 160.6 7.6 4.1	44.8 44.8 50.0 4xFXFQ63AVEB+ 2xFXFQ80AVEB 288.6 168.2 7.3	50.4 50.4 56.5 4xFXFQ50AVEB+ 4xFXFQ63AVEB 272.9 167.9 6.9	55.9 55.9 62.5 10x FXFQ50AVE 266.0 175.7 6.7	61.5 69.0 8 6xFXFQSAVEB+ 4xFXFQSAVEB 260.4 178.5 6.6 4.5	67.4 67.4 75.0 4xFXFQS0AVEB + 4xFXFQ63AVEB + 2xFXFQ80AVEB 257.7 167.6 4.3	73.5 73.5 82.5 7xFXFQ50AVEB 5xFXFQ63AVEB 257.5 175.5 6.5 4.5	78.5 78.5 87.5 6 x FXFQSQAVEB + 3 x FXFQGSAVEB + 2x FXFQGSAVEB + 2x FXFQGSAVEB + 24 x 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	83.9 83.9 94.0 9xFXFQ50AVEB 5xFXFQ63AVEE 266.8 179.4 6.7 4.6	90.0 100.0 + 8xFXFQ63AVEB 4xFXFQ80AVEB 243.1 169.1 6.2 4.3
Cooling capacity Heating capacity Recommended coo ns,c ns,h SEER SCOP Maximum number Indoor index connection	Prated,h Max. mbination of connec Min. Max.		kW kW kW	28.0 28.0 32.0 4xFXFQ63AVEB 275.1 158.8 7.0 4.0	36.4 36.4 41.0 3xFXFQS0AVEB+ 3xFXFQ63AVEB 301.3 160.6 7.6 4.1	44.8 44.8 50.0 4xFXFQ63AVEB+ 2xFXFQ80AVEB 288.6 168.2 7.3 4. 200.0 520.0	50.4 50.4 56.5 4xFXFQS0AVEB+ 4xFXFQ63AVEB 272.9 167.9 6.9 3	55.9 55.9 62.5 10x FXFQ50AVE 266.0 175.7 6.7 250.0 650.0	61.5 69.0 8 6xFXFQS0AVEB + 4xFXFQS3AVEB 260.4 178.5 6.6 4.5 64 (1) 275.0	67.4 67.4 75.0 4xFXFQS0AVEB + 4xFXFQ63AVEB + 2xFXFQ80AVEB 257.7 167.6 4.3	73.5 73.5 82.5 7xFXFQ50AVEB 5xFXFQ63AVEB 257.5 175.5 5.5 4.5	78.5 78.5 87.5 6 xFXFQ50AVEB+ 2 xFXFQ80AVEB 2xFXFQ80AVEB 251.9 174.8 6.4 4.4	83.9 83.9 94.0 9xFXFQ50AVEB 5xFXFQ63AVEE 266.8 179.4 6.7 4.6	90.0 100.0 + 8xFXFQ63AVEB 4xFXFQ80AVEB 243.1 169.1 6.2 4.3
Cooling capacity Heating capacity Recommended coo ns,c ns,h SEER SCOP Maximum number Indoor index	Prated,h Max. mbination of connec Min. Max.	table indoor units	kW kW kW	28.0 28.0 32.0 4xFXFQ63AVEB 275.1 158.8 7.0 4.0 125.0 325.0	36.4 36.4 41.0 3xFXFQSOAVEB+ 3xFXFQ63AVEB 301.3 160.6 7.6 4.1	44.8 44.8 50.0 4xFXFQ63AVEB+ 2xFXFQ80AVEB 288.6 168.2 7.3 4. 200.0 520.0	50.4 50.4 56.5 4xFXFQS0AVEB+ 4xFXFQ63AVEB 272.9 167.9 6.9 3	55.9 55.9 62.5 10x FXFQ50AVE 266.0 175.7 6.7 250.0 650.0	61.5 69.0 8 6xFXFQS0AVEB + 4xFXFQS3AVEB + 4xFXFQS3AVEB 260.4 178.5 6.6 4.5 64 (1) 275.0 715.0	67.4 67.4 75.0 4xFXFQS0AVEB + 4xFXFQ63AVEB + 2xFXFQ80AVEB 257.7 167.6 4.3	73.5 73.5 82.5 7xFXFQ50AVEB 5xFXFQ63AVEB 257.5 175.5 5.5 4.5	78.5 78.5 87.5 6 xFXFQ50AVEB+ 2 xFXFQ80AVEB 2xFXFQ80AVEB 251.9 174.8 6.4 4.4	83.9 83.9 94.0 9xFXFQ50AVEB 5xFXFQ63AVEB 266.8 179.4 6.7 4.6 375.0 975.0	90.0 100.0 + 8xFXFQ63AVEB 4xFXFQ80AVEB 243.1 169.1 6.2 4.3
Cooling capacity Heating capacity Recommended coo ŋs,c ŋs,h SEER SCOP Maximum number Indoor index connection	Prated,h Max. mbination of connec Min. Max. s Liquid Gas	table indoor units OD OD	kW kW kW %	28.0 28.0 32.0 4xFXFQ63AVEB 275.1 158.8 7.0 4.0 125.0 325.0 9.5 22.2	36.4 36.4 41.0 3xFXFQS0AVEB+ 3xFXFQ63AVEB 301.3 160.6 7.6 4.1 163.0 423.0	44.8 44.8 50.0 4xFXFQSAWEB+ 2xFXFQSOAWEB 288.6 168.2 7.3 4. 200.0 520.0	50.4 50.4 56.5 4x FXFQSAVEB+ 4x FXFQSAVEB 272.9 167.9 6.9 .3	55.9 55.9 62.5 10x FXFQ50AVE 266.0 175.7 6.7 250.0 650.0	61.5 69.0 8 6xFXFQS0AVEB + 4xFXFQS3AVEB + 4xFXFQS3AVEB 260.4 178.5 6.6 4.5 64 (1) 275.0 715.0	67.4 67.4 75.0 4xFXFQS0AVEB + 4xFXFQ63AVEB + 2xFXFQ80AVEB 257.7 167.6 4.3	73.5 73.5 82.5 7x.FXFQSAVEB 5x.FXFQSAVEB 257.5 175.5 5 4.5	78.5 78.5 87.5 6 xFXFQSAWEB+ 2xFXFQSAWEB + 2xFXFQSAWEB 251.9 174.8 6.4 4.4	83.9 83.9 94.0 9xFXFQ50AVEB 5xFXFQ63AVEB 266.8 179.4 6.7 4.6 375.0 975.0	90.0 100.0 + 8xFXFQ63AVEB 4xFXFQ80AVEB 243.1 169.1 6.2 4.3
Cooling capacity Heating capacity Recommended coo ŋs,c ŋs,h SEER SCOP Maximum number Indoor index connection	of connec Min. Max. Mbination	table indoor units OD OD	kW kW kW	28.0 28.0 32.0 4xFXFQ63AVEB 275.1 158.8 7.0 4.0 125.0 325.0 9.5 22.2	36.4 36.4 41.0 3xFXFQSOAVEB+ 3xFXFQ63AVEB 301.3 160.6 7.6 4.1	44.8 44.8 50.0 4xFXFQ63AVEB+ 2xFXFQ80AVEB 288.6 168.2 7.3 4. 200.0 520.0	50.4 50.4 56.5 4x FXFQSAVEB+ 4x FXFQSAVEB 272.9 167.9 6.9 .3	55.9 55.9 62.5 10x FXFQ50AVE 266.0 175.7 6.7 250.0 650.0	61.5 69.0 8 6xFXFQS0AVEB + 4xFXFQS3AVEB + 4xFXFQS3AVEB 260.4 178.5 6.6 4.5 64 (1) 275.0 715.0	67.4 67.4 75.0 4xFXFQS0AVEB + 4xFXFQ63AVEB + 2xFXFQ80AVEB 257.7 167.6 4.3	73.5 73.5 82.5 7x FXFQGAVEB 5x FXFQGAVEB 257.5 175.5 4.5 325.0 845.0	78.5 78.5 87.5 6 xFXFQSAWEB+ 2xFXFQSAWEB + 2xFXFQSAWEB 251.9 174.8 6.4 4.4	83.9 83.9 94.0 9xFXFQ50AVEB 5xFXFQ63AVEB 266.8 179.4 6.7 4.6 375.0 975.0	90.0 100.0 + 8xFXFQ63AVEB 4xFXFQ80AVEB 243.1 169.1 6.2 4.3
Cooling capacity Heating capacity Recommended coo ŋs,c ŋs,h SEER SCOP Maximum number Indoor index connection	of connection Max. Min. Max. Min. Max. s Liquid Gas HP/LP ga: Total piping length	table indoor units OD OD SOD	kW kW kW	28.0 28.0 32.0 4xFXFQ63AVEB 275.1 158.8 7.0 4.0 125.0 325.0 9.5 22.2	36.4 36.4 41.0 3xFXFQS0AVEB+ 3xFXFQ63AVEB 301.3 160.6 7.6 4.1 163.0 423.0	44.8 44.8 50.0 4xFXFQGAVEB+ 2xFXFQGAVEB 288.6 168.2 7.3 4. 200.0 520.0	50.4 50.4 56.5 4x FXFQSAVEB+ 4x FXFQSAVEB 272.9 167.9 6.9 .3	55.9 55.9 62.5 10xFXFQSAVE 266.0 175.7 6.7	61.5 69.0 8 6xFXFQS0AVEB + 4xFXFQS3AVEB + 4xFXFQS3AVEB 260.4 178.5 6.6 4.5 64 (1) 275.0 715.0	67.4 67.4 75.0 4×FXFG0AVEB+ 4×FXFG6AVEB+ 2×FXFG8AVEB+ 2×FXFG8AVEB 257.7 167.6 6 4.3 300.0 780.0	73.5 73.5 82.5 7x FXFQGAVEB 5x FXFQGAVEB 257.5 175.5 4.5 325.0 845.0	78.5 78.5 87.5 87.5 87.5 6 XFKFQGAVEB+ 2 XFKFQGAVEB 251.9 174.8 6.4 4.4 350.0 910.0	83.9 83.9 94.0 9xFXFQ50AVEB 5xFXFQ63AVEB 266.8 179.4 6.7 4.6 375.0 975.0	90.0 100.0 + 8xFXFQ63AVEB 4xFXFQ80AVEB 243.1 169.1 6.2 4.3







More details and final information can be found by scanning or clicking the QR codes.





Outdoor unit syste	em		REYQ	34U	36U	38U	40U	42U	44U	46U	48U	50U	52U	54U
System	Outdoor	unit module 1		REY	Q16U	REYQ8U	REY	Q10U	REYQ12U	REYQ14U		REYQ16U		REYQ18U
	Outdoor	unit module 2		REYQ18U	REYQ20U	REY	Q12U			REYQ16U			REY	Q18U
	Outdoor	unit module 3			-	REY	Q18U		REY	Q16U			REYQ18U	
Capacity range			HP	34	36	38	40	42	44	46	48	50	52	54
Cooling capacity	Prated,c		kW	95.4	97.0	106.3	111.9	118.0	123.5	130.0	135.0	140.4	145.8	151.2
Heating capacity	Prated,h		kW	95.4	97.0	106.3	111.9	118.0	123.5	130.0	135.0	140.4	145.8	151.2
	Max.	6°CWB	kW	106.5	113.0	119.0	125.5	131.5	137.5	145.0	150.0	156.5	163.0	169.5
Recommended con	nbination			9 x FXFQ63AVEB + 2 x FXFQ80AVEB	2 x FXFQ50AVEB + 10 x FXFQ63AVEB +2 x FXFQ80AVEB	10 x FXFQ63AVEB	9 x FXFQ63AVEB	+4xFXFQ80AVEB	8 x FXFQ63AVEB + 4 x FXFQ80AVEB	13 x FXFQ63AVEB + 4 x FXFQ80AVEB	+6 x FXFQ80AVEB		14 x FXFQ63AVEB + 2 x FXFQ80AVEB	15 x FXFQ63AVEB
ηs,c			%	259.2	255.3	269.2	259.6	250.2	249.3	246.8	243.1	254.4	265.7	275.2
ηs,h			%	172.0	166.3	176.0	176.1	167.8	171.9	168.8	168.5	170.3	171.7	173.3
SEER				6.6	6.5	6.8	6.6		.3	6	.2	6.4	6.7	7.0
SCOP				4.4	4.2	4	.5	4.3	4.4		4.3		4	1.4
Maximum number		table indoor units							64 (1)					
Indoor index	Min.			425.0	450.0	475.0	500.0	525.0	550.0	575.0	600.0	625.0	650.0	675.0
connection	Max.			1,105.0	1,170.0	1,235.0	1,300.0	1,365.0	1,430.0	1,495.0	1,560.0	1,625.0	1,690.0	1,755.0
Piping connections	Piping connections Liquid OD								19.1					
	Gas	OD	mm	34.9										
	HP/LP ga		mm	28	8.6					34.9				
	Total piping length	g System Actual	m						1,000					
Power supply	Phase/Fre	equency/Voltage	Hz/V					3N	~/50 /380-	415				
Current - 50Hz	Maximun	n fuse amps (MFA)	Α	8	30			100				1.	25	
Outdoor unit mod	ule		REMQ						5U					
Dimensions	Unit	HeightxWidthxDepth	mm					1,0	685x930 x7	65				
Weight	Unit		kg						230					
Fan	External stati pressure	c Max.	Pa						78					
Sound power level	Cooling	Nom.	dBA						78.0					
•	Heating	Prated,h	dBA						79.6					
Sound pressure level	Cooling	Nom.	dBA	57.0										
Operation range	Cooling	Min.~Max.	°CDB						-5.0 ~43.0					
	Heating	Min.~Max.	°CWB						-20.0 ~15.5					
Refrigerant	Type/GW	P						R	-410A/2,08	7.5				
-	Charge		kg/TCO2Eq						9.7/20.2					
Power supply	Phase/Fre	equency/Voltage	Hz/V					3N	~/50 /380-	415				
Current - 50Hz		fuse amps (MFA)	Α						20					

Actual number of connectable indoor units depends on the indoor unit type and the connection ratio restriction for the system (50% ≤ CR ≤ 120%) | Contains fluorinated greenhouse gases * EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland

Individual branch selector for VRV IV heat recovery

- › Unique range of single and multi BS boxes for flexible and fast design
- > Compact & light to install
- > Ideal for remote rooms as no drain piping is needed
- > Allows integration of server rooms into the heat recovery solution thanks to technical cooling function
- > Connect up to 250 class unit (28kW)
- > **UNIQUE** Faster installation thanks to open port connection
- > Allows multi tenant applications
- > Connectable to REYQ-T, RQCEQ-P3 and RWEYQ-T9 heat recovery units



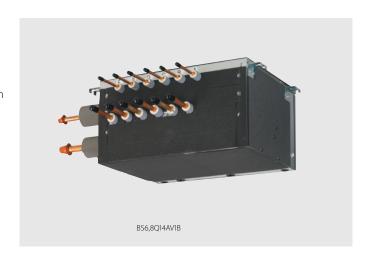
More details and final information can be found by scanning or clicking the QR codes.



Indoor unit				BS	1Q10A	1Q16A	1Q25A
Power input	Cooling	Nom.		kW		0.005	
	Heating	Nom.		kW		0.005	
Maximum number	of connectable i	ndoor units			6	8	3
Maximum capacity	index of connec	table indoo	r units		15 < x ≤ 100	100 <x≤160< td=""><td>160<x≤250< td=""></x≤250<></td></x≤160<>	160 <x≤250< td=""></x≤250<>
Dimensions	Unit	HeightxW	/idthxDepth	mm		207x388x326	
Weight	Unit			kg	1.	2	15
Casing	Material					Galvanised steel plate	
Piping connection	nnections Outdoor unit Liquid OD		OD	mm		9.5	
		Gas	OD	mm	15	5.9	22.2
		Discharge gas	OD	mm	12	2.7	19.1
	Indoor unit	Liquid	OD	mm		9.5	
		Gas	OD	mm	15	5.9	22.2
Sound absorbing t	hermal insulation	n			Foamed	d polyurethane Flame-resistant nee	edle felt
Power supply	Phase					1~	
	Frequency			Hz		50	
	Voltage			V		220-240	
	Maximum fuse	amps (MFA)		Α		15	

Multi branch selector for VRV IV heat recovery

- > Unique range of single and multi BS boxes for flexible and fast design
- Major reduction in installation time thanks to wide range, compact size and light weight multi BS boxes
- > Up to 70% smaller and 66% lighter than previous series
- Faster installation thanks to a reduced number of brazing points and wiring
- > All indoor units connectable to one BS box
- > Less inspection ports needed compared to installing single BS haves
- > Up to 16kW capacity available per port
- > Connect up to 250 class unit (28kW) by combining 2 ports
- > No limit on unused ports allowing phased installation
- > **UNIQUE** Faster installation thanks to open port connection
- > **UNIQUE** Refrigerant filters for high reliability
- > Allows multi tenant applications
- > Connectable to REYQ-T, RQCEQ-P3 and RWEYQ-T9 heat recovery units



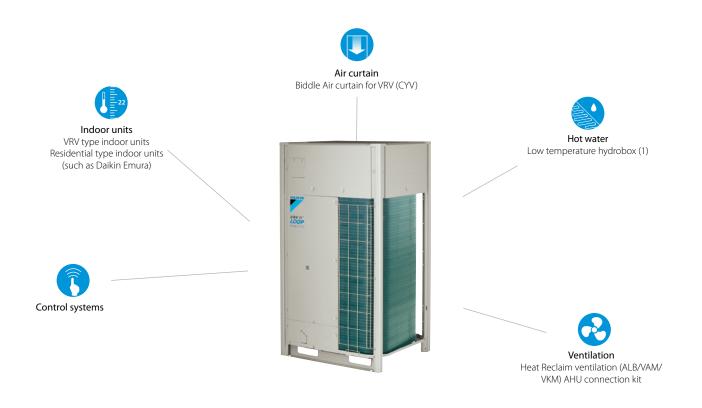
More details and final information can be found by scanning or clicking the QR codes.



Indoor unit				BS	4Q14AV1B	6Q14AV1B	8Q14AV1B	10Q14AV1B	12Q14AV1B	16Q14AV1B		
Power input	Cooling	Nom.		kW	0.043	0.064	0.086	0.107	0.129	0.172		
•	Heating	Nom.		kW	0.043	0.064	0.086	0.107	0.129	0.172		
Maximum number	of connectable i	ndoor units			20	30	40	50	60	64		
Maximum number	of connectable i	ndoor units	per branch			5						
Number of branche	es				4	6	8	10	12	16		
Maximum capacity	index of connec	table indoo	r units		400	600		7:	50	'		
Maximum capacity	index of connec	table indoo	r units per bra	nch		140						
Dimensions	Unit	HeightxW	idthxDepth	mm	298x370x430	298x5	80x430	298x8	20x430	298x1,060x430		
Weight	Unit			kg	17	24	26	35	38	50		
Casing	Material						Galvanised	steel plate				
Piping connections	Outdoor unit	Liquid	OD	mm	9.5	12.7	12.7 / 15.9	15.9	15.9 / 19.1	19.1		
		Gas	OD	mm	22.2 / 19.1	28.6 / 22.2	28.6	28.6	/ 34.9	34.9		
		Discharge gas	OD	mm	19.1 / 15.9	19.1 / 22.2	19.1 / 22.2 / 28.6		28.6			
	Indoor unit	Liquid	OD	mm			9.5 /	6.4				
		Gas	OD	mm			15.9	/ 12.7				
	Drain				VP20 (I.D. 20/O.D. 26)							
Sound absorbing tl	hermal insulation	า					Urethane foam, p	olyethylene foan	า			
Power supply	Phase				1~							
	Frequency			Hz	50							
	Voltage			٧	220-440							
	Maximum fuse	amps (MFA)		Α	15							

VRV IV+ heat pump

Daikin's optimum solution with top comfort





VRV IV standards:

Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

Continuous heating

The new standard in heating comfort

VRV configurator

Software for simplified commissioning, configuration and customisation

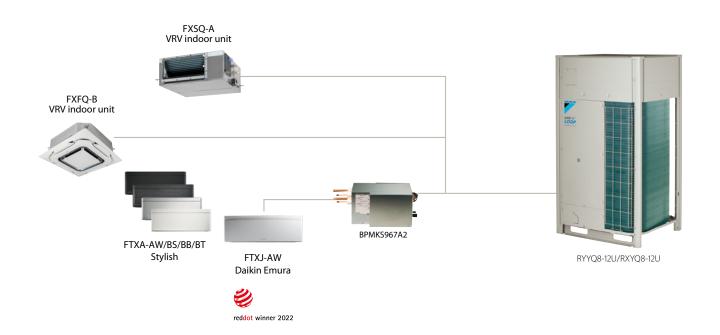
- > 7 segment display
- > Automatic refrigerant charge
- > Refrigerant containment check
- > Night quiet mode
- > Low noise function
- > Connectable to stylish indoor units (Only for single modules)
- > Connectable to LT hydrobox (1)
- > Full inverter compressors
- > Gas cooled PCB
- > 4 side heat exchanger
- > Reluctance brushless DC compressor
- > Sine wave DC inverter
- > DC fan motor
- > E-pass heat exchanger
- > I demand function
- > Manual demand function

(1) Special order unit needed to connect LT hydroboxes with multi outdoor unit systems For detailed explanation of these functions refer to vrv iv technologies tab



Wide range of indoor units

Freely combine VRV indoor units with stylish indoor units (Daikin Emura, ...)



Connectable stylish indoor units

			20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Daikin Emura - Wall mounted unit	NEW	FTXJ-AW/AS/AB	•	•	•		•		
Stylish - Wall mounted unit		FTXA-AW/BS/BB/BT	•	•	•	•	•		
Perfera wall mounted	NEW	FTXM-R	•	•	•	•	•	•	•
Perfera floor standing	NEW	FVXM-A	•	•	•		•		
Floor standing unit		FVXM-F		•	•		•		

VRV IV

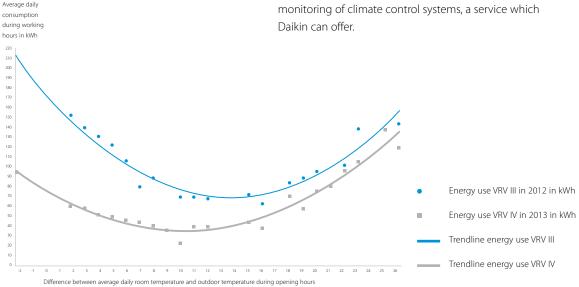
proven in practice: 40% more efficient

A field trial at a German fashion chain store demonstrated how the innovative features of VRV IV have improved energy efficiency dramatically over previous models.

Results: up to 60% less energy consumed

The results of the trial showed that the new VRV IV system consumed much less energy, particularly when cooling, compared with the VRV III system – in some cases up to 60% less. When heating, savings were an average of 20%.

The Unterhaching trial demonstrates how VRV IV heat pump technology uses a renewable energy source – air - to provide a complete and environmentally sustainable solution for heating, cooling, and ventilation in commercial environments. The trial also shows that businesses can only identify and control energy wastage through careful and intelligent monitoring of climate control systems, a service which Daikin can offer.



	VRV III 20HP (2 modules)	VRV IV 18HP (1 module)						
Period	March 2012 - February 2013	March 2013 - February 2014						
Avg (kWh/Month)	2.797	1.502						
Total (KWh)	33.562	18.023						
Total (€)	6.041	3.244						
Yearly (operation cost/m² (€/m²)	9,9	5,3						
	46% savings = € 2.797							

Measured data

Fashion store Unterhaching (Germany)

- > Floor space: 607m²
- > Energy cost: 0,18 €/kWh
- > System taken into account for consumption:
- VRV IV heat pump with continuous heating
- Round flow cassettes (without auto cleaning panel)
- VAM for ventilation (2x VAM2000)
- Biddle Air curtain.



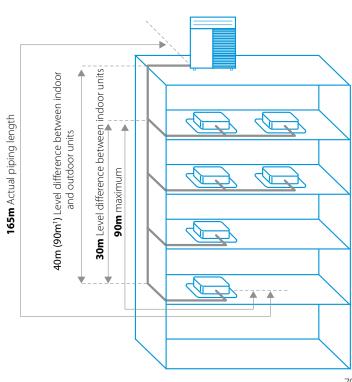
Free combination of outdoor units

Freely combine outdoor units to optimise for small footprint, continuous heating, highest efficiency or any other combination

Flexible piping design

Total piping length	1000m
Longest length actual (Equivalent)	165m (190m)
Longest length after first branch	90m¹
Level difference between indoor and outdoor units	90m¹
Level difference between indoor units	30m

¹ Contact your local dealer for more information and restrictions



² in case outdoor unit is located below indoor units

VRV IV+ heat pump

Daikin's optimum solution with top comfort

- By choosing a LOOP by Daikin product you support the reuse of refrigerant, for more information visit www.daikin.eu/loopbydaikin
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains
- Wide range of indoor units: possibility to combine VRV with stylish indoor units (Daikin Emura, Perfera)
- > Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, continuous heating, VRV configurator, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB, new DC fan motor
- > Outdoor unit display for quick on-site settings and easy read out of errors together with the indication of service parameters for checking basic functions.

- > Free combination of outdoor units to meet installation space or efficiency requirements
- > Available as heating only by irreversible field setting
- > Contains all standard VRV features





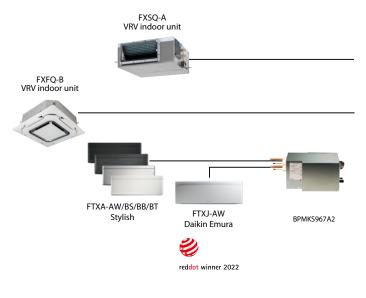
For units made and sold in Europe*

Published data with real-life indoor units

Outdoor unit		RYYC	/RXYQ	8U	10	U	12U	14U	16U		18U	20U	
Capacity range			HP	8	10)	12	14	16		18	20	
Cooling capacity	Prated,c		kW	22.4	28	.0	33.5	40.0	45.0		50.4	52.0	
Heating capacity	Prated,h		kW	22.4	28	.0	33.5	40.0	45.0		50.4	56.0	
	Max.	6°CWB	kW	25.0	31.	.5	37.5	45.0	50.0		56.5	63.0	
Recommended cor	mbination			4 x FXFQ50AV	EB 4xFXFQ	63AVEB	6 x FXFQ50AVEB	1 x FXFQ50AVEB 5 x FXFQ63AVE				x FXFQ50AVEB + 5 x FXFQ63AVEB	
ης,ς			%	302.4	267	7.6	247.8	250.7	236.5	;	238.3	233.7	
ηs,h			%	167.9	168	3.2	161.4	155.4	157.8		163.1	156.6	
SEER				7.6	6.	8	6	i.3		6.0		5.9	
SCOP					4.3 4.1 4.0						4.2	4.0	
Maximum number		table indoor units			64 (1)								
Indoor index	Min.			100.0	125	.0	150.0	175.0	200.0)	225.0	250.0	
connection	Max.			260.0	325	5.0	390.0	455.0	520.0		585.0	650.0	
Dimensions	Unit	HeightxWidthxDepth	mm		1,685x9	30x765				585x1,240x	765		
Weight	Unit		kg		25				319		378		
Sound power level	Cooling	Nom.	dBA	78.0	79	.1	83.4	80.9	85.6		83.8	87.9	
	Heating	Prated,h	dBA	79.6	80	.9	83.5	83.1	86.5		85.3	89.8	
Sound pressure level		Nom.	dBA		57.0		61.0	60.0	63.0		62.0	65.0	
Operation range	Cooling	Min.~Max.	°CDB					-5.0 ~43.0					
	Heating	Min.~Max.	°CWB		-20.0 ~15.5								
Refrigerant	Type/GW	P						R-410A/2,087.		_			
	Charge		kg/TCO2Eq	5.9/12.3	6.0/	12.5	6.3/13.2	10.3/21.5	10.4/21	.7	11.7/24.4	11.8/24.6	
Piping connections	-	OD	mm		9.52	_		12.7			15.9	1	
	Gas	OD	mm	19.1	22	.2		4.000	28.6				
	lotal piping length	System Actual	m					1,000					
Power supply	Phase/Fre	equency/Voltage	Hz/V					3N~/50 /380-4	15				
Current - 50Hz	Maximun	n fuse amps (MFA)	Α	20	2.5	5	3	32		40		50	
Outdoor unit syst	em	RYYC	/RXYQ	22U	24U	26U	28U	30U	32U	34U	36U	38U	
System	Outdoor	unit module 1		10	8		12			16		8	
ŕ	Outdoor	unit module 2		12	16	14	16	18	16	18	20	10	
	Outdoor	unit module 3						-				20	
Capacity range			HP	22	24	26	28	30	32	34	36	38	
Cooling capacity	Prated,c		kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	97.0	102.4	
Heating capacity	Prated,h		kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	101.0	106.4	
	Max.	6°CWB	kW	69.0	75.0	82.5	87.5	94.0	100.0	106.5	113.0	119.5	
Recommended cor	mbination				4 x FXFQ50AVEB + 4 x FXFQ63AVEB + 2 x FXFQ80AVEB		VEB + 6 x FXFQ50AVEE AVEB 4x FXFQ63AVEE 2 x FXFQ80AVE	3+ 5 x FXFQ63AVEB			B + 10 x FXFQ63AVE	B + 6 x FXFQ50AVEB + 10 x FXFQ63AVEB B	
ηs,c			%	274.5	269.9	264.2		256.8	251.7	253.3	250.8	272.4	
ηs,h			%	171.2	167.0	164.6	166.0	169.8	163.1	166.2	162.4	167.5	
SEER				6.9	6.8	6.7		6.5	6	.4	6.3	6.9	
				4.4	4.3		4.2	4.3	4	.2	4.1	4.3	
SCOP								64 (1)					
Maximum number		table indoor units											
Maximum number Indoor index	Min.	table indoor units		275.0	300.0	325.0		375.0	400.0	425.0	450.0	475.0	
Maximum number Indoor index connection	Min. Max.			715.0	780.0	325.0 845.0		375.0 975.0	1,040.0	425.0 1,105.0	450.0 1,170.0	475.0 1,235.0	
Maximum number Indoor index	Min. Max. Liquid	OD	mm	715.0 15	780.0		910.0	975.0				1,235.0	
Maximum number Indoor index connection	Min. Max. Liquid Gas	OD OD	mm	715.0	780.0		910.0	975.0	1,040.0				
Maximum number Indoor index connection	Min. Max. Liquid Gas	OD		715.0 15	780.0		910.0	975.0	1,040.0			1,235.0	
Maximum number Indoor index connection	Min. Max. s Liquid Gas Total piping	OD OD	mm	715.0 15	780.0		910.0	975.0	1,040.0 19.1			1,235.0	









Connectable stylish indoor units

			20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Daikin Emura - Wall mounted unit	NEW	FTXJ-AW/AS/AB	•	•	•		•		
Stylish - Wall mounted unit		FTXA-AW/BS/BB/BT	•	•	•	•	•		
Perfera wall mounted	NEW	FTXM-R	•	•	•	•	•	•	•
Perfera floor standing	NEW	FVXM-A	•	•	•		•		
Floor standing unit		FVXM-F		•	•		•		

BPMKS box needed to connect RA indoors to VRV IV (RYYQ / RXYQ)

More details and final information can be found by scanning or clicking the QR codes.







Outdoor unit syst	em	RYYC	/RXYQ	40U	42U	44U	46U	48U	50U	52U	54U			
System	Outdoor	unit module 1		10	0	12	14		16		18			
	Outdoor	unit module 2		12			16			1	8			
	Outdoor	unit module 3		18		1	16			18				
Capacity range			HP	40	42	44	46	48	50	52	54			
Cooling capacity	Prated,c		kW	111.9	118.0	123.5	130.0	135.0	140.4	145.8	151.2			
Heating capacity	Prated,h		kW	111.9	118.0	123.5	130.0	135.0	140.4	145.8	151.2			
	Max.	6°CWB	kW	125.5	131.5	137.5	145.0	150.0	156.5	163.0	169.5			
Recommended cor	nbination			9 x FXFQ50AVEB + 9 x FXFQ63AVEB	12 x FXFQ63AVEB + 4 x FXFQ80AVEB		1x FXFQ50AVEB + 13 x FXFQ63AVEB + 4 x FXFQ80AVEB		13 x FXFQ63AVEB +	6 x FXFQ50AVEB + 14 x FXFQ63AVEB + 2 x FXFQ80AVEB				
ηs,c			%	263.5	261.2	255.9	254.9	251.7	252.8	253.7	254.1			
ηs,h			%	170.0	165.5	164.5	162.0	162.8	165.2	167.2	169.4			
SEER				6.7	6.6	6.5			6.4					
SCOP				4.3	4.3 4.2 4.1 4.2									
Maximum number	of connec	table indoor units					64	(1)						
Indoor index	Min.			500.0	525.0	550.0	575.0	600.0	625.0	650.0	675.0			
connection	Max.			1,300.0	1,365.0	1,430.0	1,495.0	1,560.0	1,625.0	1,690.0	1,755.0			
Piping connections	Piping connections Liquid OD 1						19	9.1						
	Gas	OD	mm					.3						
	Total piping length	g System Actual	m				1,0	00						
Power supply	Phase/Fre	equency/Voltage	Hz/V				3N~/50	/380-415						
Current - 50Hz	Maximur	n fuse amps (MFA)	Α		10	00			1	25				
Outdoor unit mod	ule		RYMQ	8U	10U	121	J 14	IU .	16U	18U	20U			
Dimensions	Unit	HeightxWidthxDepth	mm		1,685 x930 >	c765			1,685 x1,240	x765				
Weight	Unit		kg		198			275		308				
Fan	External stati pressure	c Max.	Pa				7	8						
Sound power level	Cooling	Nom.	dBA	78.0	79.1	83.4	1 80).9	85.6	83.8	87.9			
	Heating	Prated,h	dBA	79.6	80.9	83.5	5 8	3.1	86.5	85.3	89.8			
Sound pressure level	Cooling	Nom.	dBA		57.0	61.0) 6	0.0	63.0	62.0	65.0			
Operation range					-5.0 ~43.0									
	Heating	Min.~Max.	°CWB				-20.0	~15.5						
Refrigerant	Type/GW	'P					R-410A	/2,087.5						
	Charge		kg/TCO2Eq	5.9 /12.3	6.0 /12.5	6.3 /1	3.2 10.3	/21.5 11	.3 /23.6	11.7 /24.4	11.8 /24.6			
Power supply	Phase/Fre	equency/Voltage	Hz/V				3N~/50	/380-415						
Current - 50Hz	Maximur	n fuse amps (MFA)	Α	20	25		32	32 40			50			

(1)Actual number of connectable indoor units depends on the indoor unit type (VRV indoor, Hydrobox, RA indoor, etc.) and the connection ratio restriction for the system (50% <= CR <= 130%) | Contains fluorinated greenhouse gases

* EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland

VRV IV S-series heat pump

The most compact VRV

Most compact unit on the market 823mm high & 94kg





Indoor units
VRV type indoor units
Residential type indoor units
(such as Daikin Emura)



Air curtainBiddle Air curtain for VRV (CYV)



Ventilation
Heat Reclaim ventilation
ALB/VAM/VKM AHU
connection kit



RXYSCQ4,5,6TV1



RXYSQ4,5,6TV9/TY9



RXYSQ8, 10, 12TY1



VRV IV standards:

Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

VRV configurator

Software for simplified commissioning, configuration and customisation

- > Refrigerant containment check
- > Night quiet mode
- > Low noise function
- > Connectable to stylish indoor units
- > Full inverter compressors
- > Refrigerant cooled PCB (not available on RXYSQ4,5,6,8 TY9/TY1)
- > Reluctance brushless DC compressor
- > Sine wave DC inverter
- > DC fan motor
- > E-pass heat exchanger
- > I demand function
- > Manual demand function

For detailed explanation of these functions refer to vrv iv technologies tab

Widest range of front blow units on the market



Compact: Easy for a two person crew to move and install.

Lowest height on the market

Ideal for roof installations

> The low height mini VRV can be hidden in many places where a twin fan unit cannot due to its height.

Ideal to install below a window on a Balcony

 Daikin VRV IV S-series compact can be installed discretely on a balcony thanks to it's compact dimensions, offering you air conditioning while being almost unnoticeable.



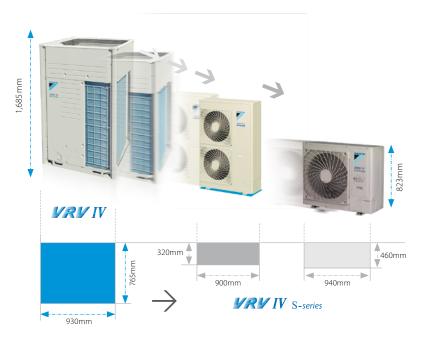
Unnoticeable for parapet installation

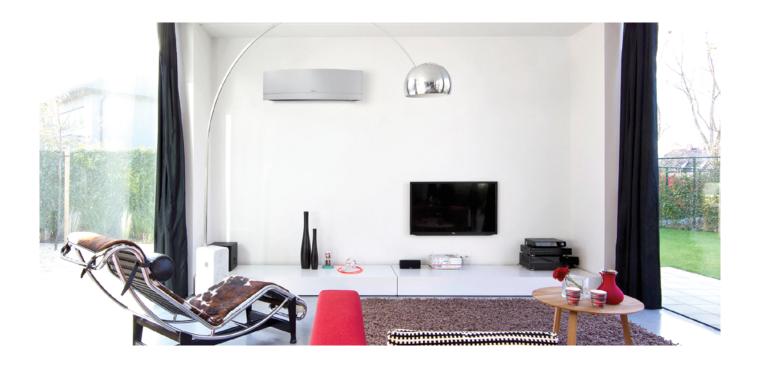


Low height make the unit invisible from inside and unnoticeable from the outside

Space saving design

The VRV S-series is slimmer and more compact, resulting in significant savings in installation space.





Wide range of indoor units

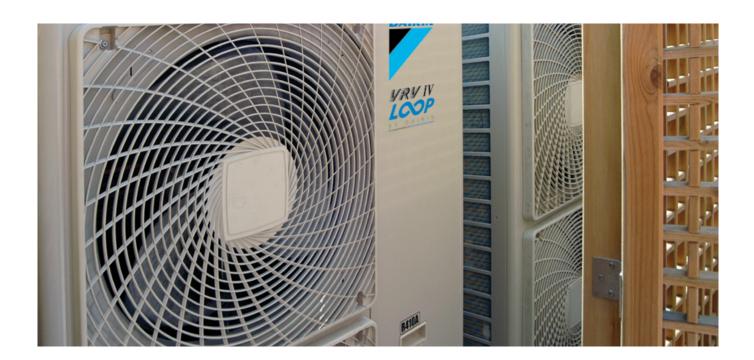
Connect VRV units...



Connectable stylish indoor units

			15 CLASS	20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Round flow cassette		FCAG-B				•		•	•	•
Fully flat cassette		FFA-A9			•	•		•	•	
Slim concealed ceiling unit		FDXM-F9			•	•		•	•	
Concealed ceiling unit with inverter driven	fan	FBA-A(9)			•	•		•	•	
Daikin Emura - Wall mounted unit	NEW	FTXJ-AW/AS/AB		•	•	•		•		
Stylish - Wall mounted unit		FTXA-AW/BS/BB/BT		•	•	•	•	•		
Perfera wall mounted	NEW	FTXM-R	•	•	•	•	•	•	•	•
Ceiling suspended unit		FHA-A(9)				•		•	•	•
Perfera floor standing	NEW	FVXM-A		•	•	•		•		
Floor standing unit		FVXM-F			•	•		•		
Concealed floors tanding unit		FNA-A9			•	•		•	•	

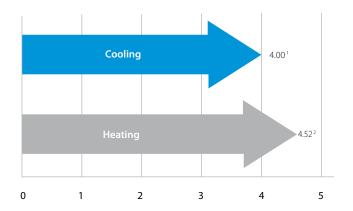
For more info about Daikins stylish indoor units, please check our indoor unit-portfolio
* VRV indoor units and stylish indoor units cannot be combined.
* To connect stylish indoor units a BPMKS unit is needed



High COP values

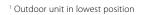
A major feature of VRV IV S-series is its exceptional energy efficiency. The system achieves high COPs during both cooling and heating operation by the use of refined components and functions.

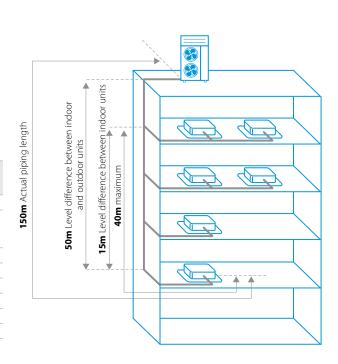
- Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°C, equivalent refrigerant piping: 5m, level difference: 0m.
- Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m



Flexible piping design

	VRV indoors connected	Stylish indoors connected
Total piping length	300m	140m
Longest length actual	120m (4-8HP)/ 150m (10-12HP)	
Minimum length between outdoor unit and first branch	-	5m
Minimum piping length between BP and indoor unit	-	2m
Maximum piping length between BP and indoor unit	-	15m
Longest length after first branch	40m	40m
Level difference between indoor and outdoor units	50m (40m ¹)	30m
Level difference between indoor units	15m	15m



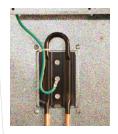


VRV IV S-series

technologies

Super aero grille

The spiral shaped ribs are aligned with the direction of discharge flow in order to minimise turbulence and reduce noise.



Refrigerantcooled PCB

- Reliable cooling because it is not influenced by ambient air temperature
- Smaller switchbox for smoother air flow through the heat exchanger increasing heat exchange efficiency with 5%

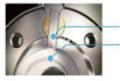








Air streams are smoothed around V-cut and reduces air flow loss



Vane fixed to rotor Rotor

Compressor

Swing type > no oil separator Vane & rotor are unified resulting in:

- > Reduced noise level
- > Longer compressor life
- Higher efficiency thanks to the absence of internal refrigerant leakage between high and low pressure side

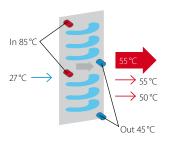
E-Pass heat exchanger

Optimising the heat exchanger's path layout prevents heat being transferred from the overheated gas section to the sub-cooled liquid section which is a more efficient way to use the heat exchanger.

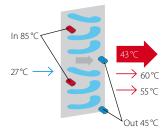
I-demand function

Limit maximum power consumption.
The newly introduced current sensor minimizes the difference between the actual power consumption and the predefined power consumption.

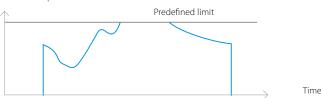
Standard heat exchanger



e-Pass heat exchanger



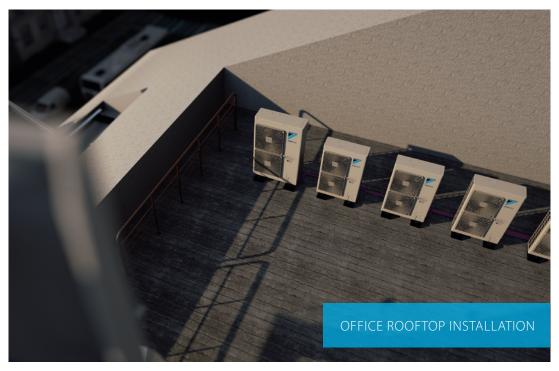
Power consumption















VRV IV S-series compact heat pump

The most compact VRV

- > Compact & lightweight single fan design makes the unit almost
- > Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air cutains
- > Wide range of indoor units: either connect VRV or stylish indoor units such as Daikin Emura, Perfera ...
- > Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature and full inverter compressors
- > Possibility to limit peak power consumption between 30 and 80%, for example during periods with high power demand
- > Night quiet mode reduces sound pressure with up to 8dBa
- > Contains all standard VRV features





Published data with real-life indoor units

Connectable stylish indoor units

			15 CLASS	20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Round flow cassette		FCAG-B				•		•	•	•
Fully flat cassette		FFA-A9			•	•		•	•	
Slim concealed ceiling unit		FDXM-F9			•	•		•	•	
Concealed ceiling unit with inverter drive	n fan	FBA-A(9)			•	•		•	•	
Daikin Emura - Wall mounted unit	NEW	FTXJ-AW/AS/AB		•	•	•		•		
Stylish - Wall mounted unit		FTXA-AW/BS/BB/BT		•	•	•	•	•		
Perfera wall mounted	NEW	FTXM-R	•	•	•	•	•	•	•	•
Ceiling suspended unit		FHA-A(9)				•		•	•	•
Perfera floor standing	NEW	FVXM-A		•	•	•		•		
Floor standing unit		FVXM-F			•	•		•		
Concealed floors tanding unit		FNA-A9			•	•		•	•	

More details and final information can be found by scanning or clicking the QR codes.





Outdoor unit			RXYSCQ	4TV1	5TV1	6TV1			
Capacity range			HP	4	5	6			
Cooling capacity	Prated,c		kW	12.1	14.0	15.5			
Heating capacity	Prated,h		kW	12.1	14.0	15.5			
	Max.	6°CWB	kW	14.2	16.0	18.0			
Recommended cor	mbination			3 x FXSQ25A2VEB + 1 x FXSQ32A2VEB	4 x FXSQ32A2VEB	2 x FXSQ32A2VEB + 2 x FXSQ40A2VEB			
ηs,c			%	322.8	303.4	281.3			
ηs,h			%	182.3	185.1	186.0			
SEER				8.1	7.7	7.1			
SCOP				4.6	4	.7			
Maximum number	of connec	table indoor units			64 (1)				
Indoor index	Min.			50.0	62.5	70.0			
connection	Max.			130.0	162.5	182.0			
Dimensions	Unit	HeightxWidthxDepth	mm		823x940x460				
Weight	Unit		kg		89				
Sound power level	Cooling	Nom.	dBA	68.0	69.0	70.0			
	Heating	Prated,h	dBA	69.0	70.0	71.0			
Sound pressure leve	l Cooling	Nom.	dBA	51.0	52.0	53.0			
Operation range	Cooling	Min.~Max.	°CDB		-5.0 ~46.0				
	Heating	Min.~Max.	°CWB		-20.0 ~15.5				
Refrigerant	Type/GW	P			R-410A/2,087.5				
	Charge		kg/TCO2Eq		3.7/7.7				
Piping connections	Liquid	OD	mm		9.52				
	Gas	OD	mm	15.	9	19.1			
	Total piping length	System Actual	m		300				
Power supply	Phase/Fre	equency/Voltage	Hz/V	/V 1~/50 /220-240					
Current - 50Hz	Maximun	n fuse amps (MFA)	Α		32				





VRV IV S-series heat pump

Space saving solution without compromising on efficiency

- > By choosing this product with Certified Reclaimed Refrigerant Allocation you support the reuse of refrigerant
- > Space saving trunk design for flexible installation
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air cutains
- > Wide range of indoor units: either connect VRV or stylish indoor units such as Daikin Emura, Perfera ...
- > Wide range of units (4 to 12HP) suitable for projects up to 200m² with space limitations
- > Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature and full inverter compressors
- > Possibility to limit peak power consumption between 30 and 80%, for example during periods with high power demand
- > Contains all standard VRV features







For units made and sold in Europe*

Published data with real-life indoor units

Connectable stylish indoor units

			15 CLASS	20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Round flow cassette		FCAG-B				•		•	•	•
Fully flat cassette		FFA-A9			•	•		•	•	
Slim concealed ceiling unit		FDXM-F9			•	•		•	•	
Concealed ceiling unit with inverter driven to	fan	FBA-A(9)			•	•		•	•	
Daikin Emura - Wall mounted unit	NEW	FTXJ-AW/AS/AB		•	•	•		•		
Stylish - Wall mounted unit	FTX	A-AW/BS/BB/BT		•	•	•	•	•		
Perfera wall mounted	NEW	FTXM-R	•	•	•	•	•	•	•	•
Ceiling suspended unit		FHA-A(9)				•		•	•	•
Perfera floors tanding	NEW	FVXM-A		•	•	•		•		
Floor standing unit		FVXM-F			•	•		•		
Concealed floor standing unit		FNA-A9			•	•		•	•	

More details and final information can be found by scanning or clicking the QR codes.



RXYSQ-TV9



RXYSO-TY9



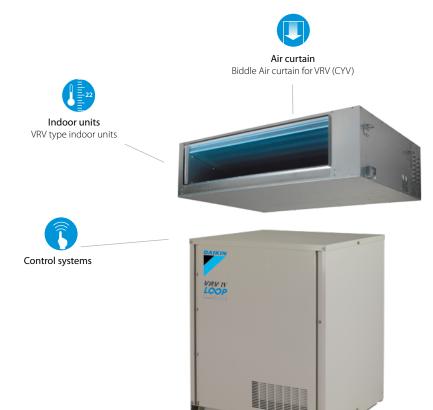


Outdoor unit			RXYSQ	4TV9	5TV9	6TV9	4TY9	5TY9	6TY9	8TY1	10TY1	12TY1
Capacity range			HP	4	5	6	4	5	6	8	10	12
Cooling capacity	Prated,c		kW	12.1	14.0	15.5	12.1	14.0	15.5	22.4	28.0	33.5
Heating capacity	Prated,h		kW	12.1	14.0	15.5	12.1	14.0	15.5	22.4	28.0	33.5
	Max.	6°CWB	kW	14.2	16.0	18.0	14.2	16.0	18.0	25.0	31.5	37.5
Recommended con	nbination			3 x FXSQ25A2VEB + 1 x FXSQ32A2VEB	4 x FXSQ32A2VEB	2 x FXSQ32A2VEB + 2 x FXSQ40A2VEB		4 x FXSQ32A2VEB	2 x FXSQ32A2VEB + 2 x FXSQ40A2VEB	4 x FXSQ50A2VEB	4 x FXSQ63A2VEB	6 x FXSQ50A2VEB
ηs,c			%	278.9	270.1	278.0	269.2	260.5	268.3	237.8	247.4	248.6
ηs,h			%	171.6	182.9	192.8	154.4	164.5	174.1	163.4	162.2	167.0
SEER				7.0	6.8	7.0	6.8	6.6	6.8	6.0	6.3	6.3
SCOP				4.4	4.4 4.6 4.9 3.9 4.2 4.4 4.2 4.1							
Maximum number	ximum number of connectable indoor units							64 (1)				
Indoor index					62.5	70.0	50.0	62.5	70.0	100.0	125.0	150.0
connection	Max.			130.0	162.5	182.0	130.0	162.5	182.0	260.0	325.0	390.0
Dimensions	Unit	HeightxWidthxDepth	mm			1,345x9	00x320			1,430x940x320	1,615x9	40x460
Weight	Unit		kg			10)4			144	175	180
Sound power level	Cooling	Nom.	dBA	68.0	69.0	70.0	68.0	69.0	70.0	73.0	74.0	76.0
	Heating	Prated,h	dBA	68.0	69.0	70.0	68.0	69.0	70.0	73.0	74.0	76.0
Sound pressure level	l Cooling	Nom.	dBA	50.0	51	1.0	50.0	51	.0	55	.0	57.0
Operation range	Cooling	Min.~Max.	°CDB			-5.0 ~	-46.0				-5.0 ~52.0	
	Heating	Min.~Max.	°CWB					-20.0 ~15.5				
Refrigerant	Type/GW	P					R	-410A/2,087	.5			
	Charge		kg/TCO2Eq			3.6	/7.5			5.5/11.5	7.0/14.6	8.0/16.7
Piping connections	g connections Liquid OD n						9.	52				12.70
Gas OD n				15.9 19.1 15.9 19.1 22.2							25.4	
	Total piping System Actual ı length							300				
Power supply	Phase/Fre	equency/Voltage	Hz/V	V 1N~/50 /220-240 3N~/50 /380-415								
Current - 50Hz	Maximun	n fuse amps (MFA)	Α		32			16		25		32

⁽¹⁾ Actual number of units depends on the indoor unit type (VRV DX indoor, RA DX indoor, etc.) and the connection ratio restriction for the system (being; $50\% \le CR \le 130\%$). | Contains fluorinated greenhouse gases * EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland

VRV IV i-series heat pump

for indoor installation







Ventilation Heat Reclaim ventilation (ALB/VAM/ VKM) AHU connection kit



VRV IV standards:

Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

VRV configurator

Software for simplified commissioning, configuration and customisation $% \left(1\right) =\left(1\right) \left(1\right) \left($

- > Night quiet mode
- > Full inverter compressors
- > Low noise function
- > Sine wave DC inverter
- > DC fan motor
- > E-pass heat exchanger
- > I demand function
- > Manual demand function

For detailed explanation of these functions refer to VRV iv technologies tab

Invisible

- > Consider a wider range of properties because outdoor installation is not a factor
- Open for business sooner because getting building permits is simplified
- > Seamless integration into the surroundings as only the grille is visible
- > No need for a roof installation or back alley installation







Quiet

- > Highly suited to densely populated areas such as city centres thanks to their low operating sound
- > Dedicated modes reduce sound further to comply with inner-city noise regulations



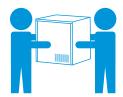
Heat exchanger sound not louder than a normal conversation



Compressor sound not louder than a refrigerator

Lightweight parts

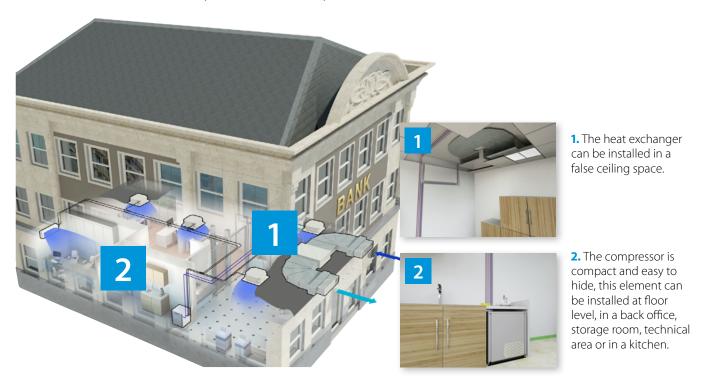




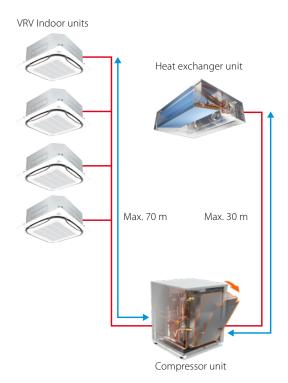
Unique split outdoor unit for indoor installation

Compact and easy to hide, the compressor can be installed at floor level, in a back office, storage room, technical area or in a kitchen, while the heat exchanger can be installed in a false ceiling space. This means that the air conditioning system is completely invisible and does not take up expensive commercial floor space.

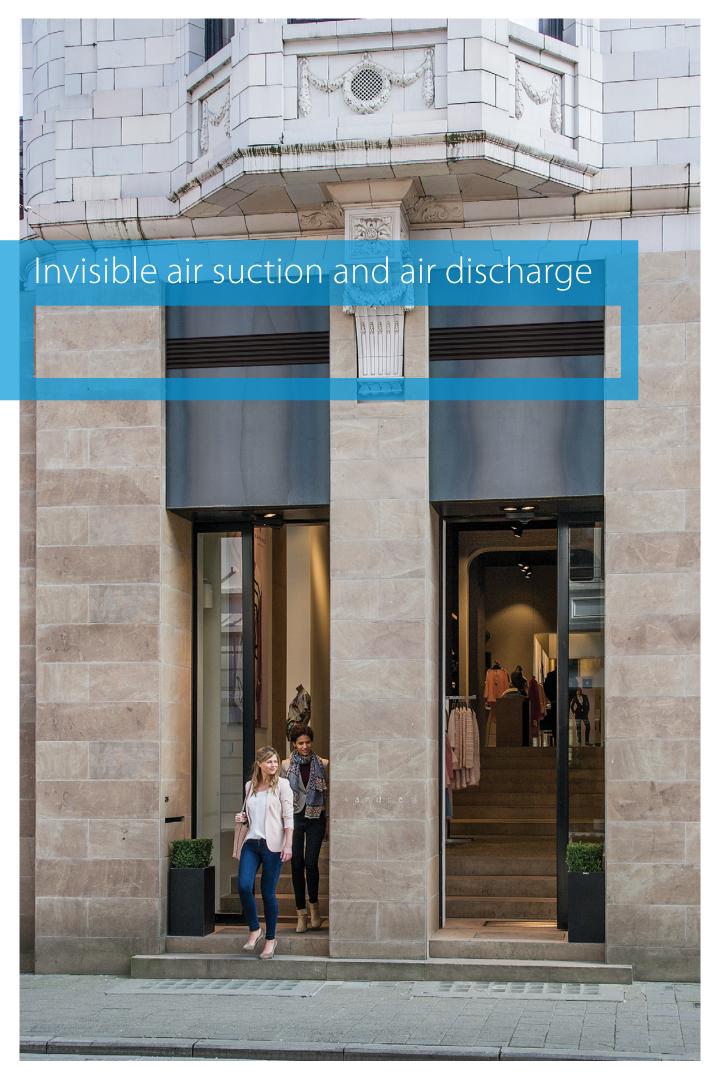
Unrivalled flexibility thanks to the fact that the outdoor unit is split into two parts



This means that the air conditioning system is completely invisible and does not take up expensive commercial floor space.



Max. total piping length: 140m (5HP) / 300m (8HP)



The problem solver

for many installation issues

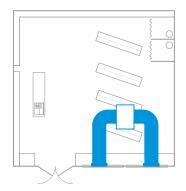
Example 1 High flexibilty

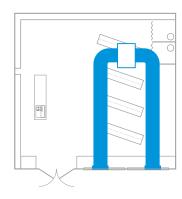
The other way around: install the modules where if fits your customer, not where it is the best fit for the outdoor unit

If there is no flat roof or backgarden available for installation of the outdoor unit, VRV IV i-series offers the solution.

The suction and exhaust can be installed at the façade or at the rear of the building as the inverter fans allows ESP to be adjusted to the length of the ductwork.

The compressor module can be installed up to 30 m from the heat exchanger unit in a storage room,





Flexible installation thanks to inverter fans



Example 2

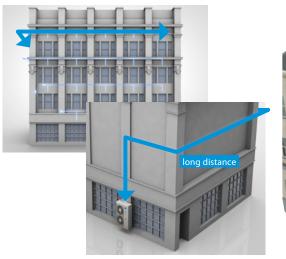
Shorter pipe runs to the indoor units reduces installation costs compared to rooftop or back alley installation

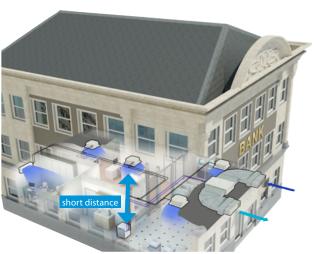
Back alley or rooftop needs very long piping lengths

- > Long installation time
- > Additional cost
- > Capacity loss

VRV IV i-series can be installed close to the indoor units

- > Quicker installation
- > Lower cost
- > No capacity loss





Example 3

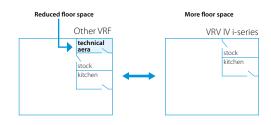
No need for bulky and expensive sound countermeasures

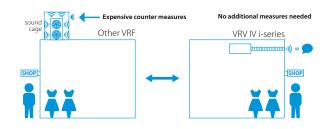
To comply with city regulation countermeasures are needed for standard units

- Expensive sound cages might be needed to reduce sound (standard outdoor unit sound = 50~60 dBA)
- > Inside installation using expensive floor space

With VRV IV i-series you easily comply with city regulation without additional measures

- Operation sound 47 dBA for 5HP model (flexible to install in corridor, shop area, ...) or lower with attenuator
- No floor space is used as units can be installed in false ceiling, against the wall, . . .





Patented V-shape heat exchanger

for best surface to volume ratio





Compressor unit with rotating switchbox

Flexible and easy to install

> Avoids any corrosion risk

Rotating switchbox Flexibility by back and top > For easy access to all compressor parts refrigerant connection possibility Only **77 kg** (5HP) Tube-in-tube subcool heat exchanger > This patented heat exchanger increases the capacity of the system by ensuring optimal state No drain connection of refrigerant in the heat exchanger module. This needed in turn increases overall efficiency. > Thanks to natural evaporation > Minimized cold surface to reduce dew formation > Fast and easy installation Non welded Small footprint bottom casing > Maximizes useable floor space (600 x 554 mm for 5HP)

> Can easily be mounted in a storage room, back office, ...





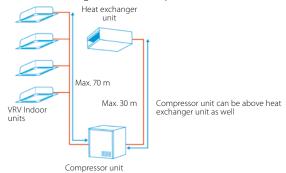
VRV IV heat pump for indoor installation

The invisible VRV

> Unique VRV heat pump for indoor installation



> Unrivalled flexibility because the unit is split up into two elements: the heat exchanger and the compressor



- > Highly suited to densely populated areas thanks to the low operation sound and seamless integration into surrounding architecture as only the grille is visible
- > Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, VRV configurator and full inverter compressors
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air cutains

More details and final information can be found by scanning or clicking the QR codes.



- > Lightweight units (max. 105kg) can be installed by two people
- > Unique V-shape heat exchanger results in compact dimensions (h/e unit only 400mm high) allowing false ceiling installation, while ensuring top efficiency
- > Super efficient centrifugal fans (over 50% efficiency increase compared to sirocco fan)
- > Small footprint compressor unit (760 x 554 mm) maximizing useable floor space
- > Connectable to all VRV control systems







Published data with real-life indoor units



SB.RKXYO-T

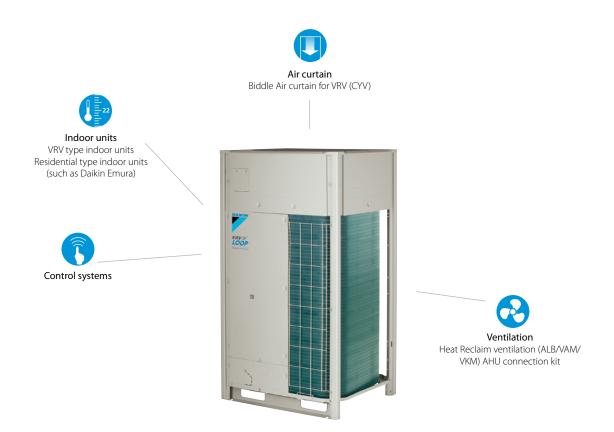


Outdoor unit sys	tem		SB.RKX	YQ	5T8	8T
System	Heat exchanger unit				RDXYQ5T8	RDXYQ8T
	Compressor unit				RKXYQ5T8	RKXYQ8T
Capacity range				HP	5	8
Cooling capacity	Prated,c			kW	14.0	22.4
Heating capacity	Prated,h			kW	10.4	12.9
	Max.	6°CWB		kW	16.0	25.0
Recommended co	mbination				4 x FXSQ32A2VEB	4 x FXSQ50A2VEB
ηs,c				%	200.1	190.2
ηs,h				%	149.3	137.4
SEER					5.1	4.8
SCOP					3.8	3.5
Maximum numbe	r of connectable indoo	r units			10 (1)	17 (1)
Indoor index	Min.				62.5	100.0
connection	Max.				162.5	260.0
Piping connection	s Between Compressor module (CM		OD i	mm	12.	7
	and heat exchanger module (HM)	Gas	OD i	mm	19.1	22.2
В	Between Compressor module	Liquid	OD i	mm	9.5	2
	(CM) and indoor units (IU)	Gas	OD mm		15.9	19.1
	Total piping length	System	Actual	m	140	300

				Heat exchanger	module - RDXYQ	Compressor module - RKXYQ		
Outdoor unit mod	lule			5T8	8T	5T8	8T	
Dimensions	Unit	HeightxWidthxDepth	mm	397x1,45	56x1,044	701x600x554	701x760x554	
Weight	Unit		kg	95	103	79	105	
Sound power level	Cooling	Nom.	dBA	77.0	81.0	-		
Sound pressure level	Cooling	Nom.	dBA	47.0	54.0	-		
Refrigerant	Type/GWP			R-41	I0A/-	R-410A/	2,087.5	
	Charge		kg/TCO2Eq	-	/-	2.00 /4.20	4.00 /8.35	
Power supply	Phase/Frequency/V	ase/Frequency/Voltage Hz/		1N~/50	/220-240	3N~/50 /380-415		
Current - 50Hz	Maximum fuse amp	os (MFA)	Α	1	0	16	20	

VRV IV C+ series

Where heating is priority without compromising on efficiency





VRV IV standards:

Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

VRV configurator

Software for simplified commissioning, configuration and customisation

- > 7 segment display
- > Automatic refrigerant charge
- > Refrigerant containment check
- > Night quiet mode
- > Low noise function
- > Connectable to stylish indoor units (Only for single modules)
- > Full inverter compressors
- > Gas cooled PCB
- > 4 side heat exchanger
- > Reluctance brushless DC compressor
- > Sine wave DC inverter
- > DC fan motor
- > E-pass heat exchanger
- > I demand function
- > Manual demand function



ARGUE CARDS





RXYLO-T

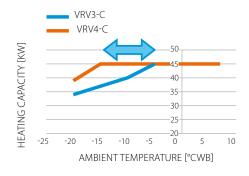


Where heating is priority without compromising on efficiency



High heating capacity at low ambient temperatures

> Stable heating capacity available down to -15°C WB!



High partial load efficiency

- > New vapour injection scroll compressor optimised for low load
 - UNIQUE back-pressure control: Pressure port increases pressure below the scroll in low load operation, preventing refrigerant leak and increasing
 - UNIQUE Injection structure with check valve: Prevents volume backflow during low load operation typically occuring with standard vapour injection compressors
- > Variable Refrigerant Temperature adjusts refrigerant temperature to match the load



LOWER PRESSURE



High reliability down to -25°C WB

> Hot gas bypass prevents ice buildup at the bottom of the heat exchanger





High seasonal efficiency

> Measured with indoor units for real applications!

> ALL information for indoor units used available on our eco-design website: Already fully compliant https://energylabel.daikin.eu/eu/en_US/lot21.html







The known VRV IV standards

- ✓ Variable Refrigerant Temperature
- ✓ VRV configurator

Total solution



Daikin Emura Wall mounted unit



Fully flat cassette



Biddle air curtain



Intelligent Manager



Air handling unit for ventilation



Low temperature hydrobox

VRV IV heat pump, optimised for heating

Where heating is priority without compromising on efficiency

- > By choosing this product with Certified Reclaimed Refrigerant Allocation you support the reuse of refrigerant
- Specifically developed for heating operation in low ambient conditions, making it suitable for single source heating
- > Stable heating capacity down to -15°C, thanks to vapour injection compressor
- > Extended operation range down to -25°C in heating
- High reliability in severe conditions, thanks to hot gas bypass circuit in the heat exchanger
- > 15% increased heating capacity at high relative humidity (2°CDB/1°CWB and RH=83%) vs previous model
- Shorter defrost and heat up time, compared to standard VRV heat pump
- Very economical solution as a smaller outdoor unit model can be used compared to the standard series
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air cutains

- Wide range of indoor units: possibility to combine VRV with stylish indoor units (Daikin Emura, Perfera)
- > Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, VRV configurator, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB, new DC fan motor, ...
- > Free combination of outdoor units to meet installation space or efficiency requirements
- > Wide piping flexibility: 30m indoor height difference, maximum piping length: 190m, total piping length: 500m
- > Less installation time and smaller footprint compared to previous model thanks to removal of function unit





For units made and sold in Europe*

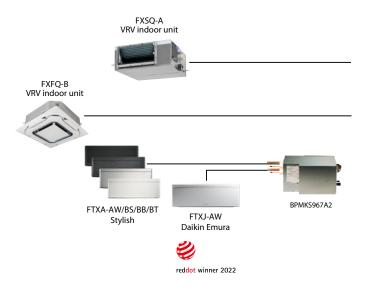
Published data with real-life indoor units

Outdoor unit			RXYLQ	10T	12T	14T			
Capacity range			HP	10	12	14			
Cooling capacity	Prated,c		kW	28.0	33.5	40.0			
Heating capacity	Prated,h		kW	28.0	33.5	40.0			
	Max.	6°CWB	kW	31.5	37.5	45.0			
Recommended cor	mbination			4 x FXSQ63P7VEB	6 x FXSQ50P7VEB	1x FXSQ50P7VEB + 5 x FXSQ63P7VEB			
ηs,c			%	251.4	267.0	270.2			
ηs,h			%	144.20	13	57.0			
SEER				6.4 6.8					
SCOP				3.7 3.5					
Maximum number	of connec	table indoor units			64 (1)				
Indoor index	Min.			175	210	245			
connection	Nom.			250	300	350			
	Max.			325	390	455			
Dimensions	Unit	HeightxWidthxDepth	mm		1,685x1,240x765				
Weight	Unit		kg		302				
Sound power level	Cooling	Nom.	dBA	75	77	81			
Sound pressure leve	l Cooling	Nom.	dBA	55	56	59			
Operation range	Cooling	Min.~Max.	°CDB		-5 ~43				
-	Heating	Min.~Max.	°CWB		-25 ~16				
Refrigerant	Type/GW	P			R-410A/2,087.5				
	Charge		kg/TCO2Eq		11.8/24.6				
Piping connections	Liquid	OD	mm	9.52	1:	2.7			
	Gas	OD	mm	22.2	2	8.6			
	Total piping length	g System Actual	m	n 500					
Power supply	Phase/Fre	equency/Voltage	Hz/V		3N~/50 /380-415				
Current - 50Hz	Maximur	n fuse amps (MFA)	A	25	3	32			
0			DVVIO	1CT 10T	207 227 247	267 207			

Outdoor unit sys	tem	RXYLQ	16T	18T	20T	22T	24T	26T	28T
System	Outdoor unit module 1		RXMLQ8T		RXYLQ10T		RXYI	LQ12T	RXYLQ14T
	Outdoor unit module 2		RXM	LQ8T	RXYLQ10T	RXYLQ10T RXYI		LQ12T RXYL	
Capacity range		HP	16	18	20	22	24	26	28
Cooling capacity	Prated,c	kW	44.8	50.4	56.0	61.5	67.0	73.5	80.0
Heating capacity	Prated,h	kW	50.0	56.5	63.0	69.0	75.0	82.5	90.0
	Max. 6°CWB	kW	50.0	56.5	63.0	69.0	75.0	82.5	90.0
Recommended co	embination		4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	3 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	2 x FXMQ50P7VEB + 6 x FXMQ63P7VEB		4 x FXMQ50P7VEB + 4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	7 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	6 x FXMQ50P7VEB + 4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB
ηs,c		%	261.8	255.7	251.4	263.0	274.4	270.8	270.1
ηs,h		%	138.0	140.5	144.3	140.3	137.6	13	7.1
SEER			6.62	6.47	6.36	6.65	6.93	6.84	6.83
SCOP			3.52	3.59	3.68	3.58	3.51	3.	50
Maximum numbe	r of connectable indoor units					64 (1)			
Indoor index	Min.		280	315	350	385	420	455	490
connection	Nom.		400	450	500	550	600	650	700
	Max.		520	585	650	715	780	845	910
Piping connection	ns Liquid OD	mm	12.7		15	5.9		19	9.1
	Gas OD	mm		28	3.6			34.9	
	Total piping System Actual length	m				500			
Current - 50Hz	Maximum fuse amps (MFA)	Α	40	45	50		6	50	









Connectable stylish indoor units

			20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Daikin Emura - Wall mounted unit	NEW	FTXJ-AW/AS/AB	•	•	•		•		
Stylish - Wall mounted unit		FTXA-AW/BS/BB/BT	•	•	•	•	•		
Perfera wall mounted	NEW	FTXM-R	•	•	•	•	•	•	•
Perfera floor standing	NEW	FVXM-A	•	•	•		•		
Floor standing unit		FVXM-F		•	•		•		

BPMKS box needed to connect RA indoors to VRV IV (RYYQ / RXYQ)

More details and final information can be found by scanning or clicking the QR codes.





Outdoor unit syste			RXYLQ-T	30T	32T	34T	36T	38T	40T	42T	
System					RXYLQ10T			RXYLQ12T		RXYLQ14T	
		unit module 2		RXYL	.Q10T		RXYLQ12T		RXYI	.Q14T	
	Outdoor	unit module 3		RXYLQ10T		RXYLQ12T			RXYLQ14T		
Capacity range			HP	30	32	34	36	38	40	42	
Cooling capacity	Prated,c		kW	84.0	89.5	95.0	100.5	107.0	113.5	120.0	
Heating capacity	Prated,h		kW	94.5	101	107	113	120	128	135	
	Max.	6°CWB	kW	94.5	100.5	106.5	112.5	120.0	127.5	135.0	
Recommended cor	Recommended combination			9 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	8 x FXMQ63P7VEB + 4 x FXMQ80P7VEB		2 x FXMQ50P7VEB + 10 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	6 x FXMQ50P7VEB + 10 x FXMQ63P7VEB	9 x FXMQ50P7VEB + 9 x FXMQ63P7VEB	12 x FXMQ63P7VEB + x FXMQ80P7VEB	
ης,ς			%	251.4	259.1	266.8	274.4	271.6	270.3	270.1	
ηs,h			%	144.3	141.6	139.2	137.6		137.1		
SEER				6.36	6.55	6.74	6.93	6.86	6.	83	
SCOP				3.68	3.61	3.56	3.51		3.50		
Maximum number	ximum number of connectable indoor units						64 (1)				
Indoor index	Min.			525	560	595	630	665	700	735	
connection	Nom.			750	800	850	900	950	1,000	1,050	
	Max.			975	1,040	1,105	1,170	1,235	1,300	1,365	
Piping connections	Liquid	OD	mm				19.1				
	Gas	OD	mm	m 34.9 41.3							
	Total piping length	g System Actual	m				500				
Current - 50Hz	Maximun	n fuse amps (MFA)	A		8	0			90		
Outdoor unit mod	ule		RXMLQ-T				8T				
Dimensions	Unit	HeightxWidthxDepth	mm			1	,685 x1,240 x76	5			
Weight	Unit		kg				302				
Fan	External static pressure	Max.	Pa				78				
Sound power level	Cooling	Nom.	dBA				75.0				
Sound pressure level		Nom.	dBA				55.0				
Operation range	Cooling	Min.~Max.	°CDB -5 ~43								
Heating Min.~Max.		°CWB	VB -25 ~16								
Refrigerant	Type/GW	P					R-410A/2,087.5				
Charge			kg/TCO2Eq	D2Eq 11.8 /24.6							
Power supply	Phase/Fre	equency/Voltage	Hz/V				3N~/50 /380-41	5			
Current - 50Hz		n fuse amps (MFA)	Α				20				

(1)Actual number of connectable indoor units depends on the indoor unit type (VRV indoor, Hydrobox, RA indoor, etc.) and the connection ratio restriction for the system (70% <= CR <= 130%) | Contains fluorinated greenhouse gases
* EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland



Replacement VRV

Quick & quality replacement for R-22 and R-407C systems









Ventilation Heat Reclaim ventilation (VAM/VKM) AHU connection kit



_VRV III





Control systems

Heat pump

Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

VRV configurator

Software for simplified commissioning, configuration and customisation

For more information on these features refer to the VRV IV technologies tab

- > 7 segment display
- > Automatic refrigerant charge
- > Night quiet mode
- > Low noise function
- > Full inverter compressors
- > Gas cooled PCB
- > 4 side heat exchanger
- > Reluctance brushless DC compressor
- > Sine wave DC inverter
- > DC fan motor
- > E-pass heat exchanger
- > I demand function
- > Manual demand function

VRVIII-Q

Heat pump & Heat recovery

- > Automatic refrigerant charge
- > Night quiet mode
- > Low noise function
- > Full inverter compressors
- > Reluctance brushless DC compressor
- > Sine wave DC inverter
- > DC fan motor
- > E-pass heat exchanger
- > I demand function
- > Manual demand function

Replacement technology



The quick and quality way of upgrading R-22, R-407C and R-410A systems

These benefits will convince your customer:

Drastically improve your efficiency, comfort and reliability

No disturbance of daily operations

- Reuse of existing pipework results in fast installation
- > Plan phases to avoid loss of business
- > Replace any VRF system

Lower installation costs

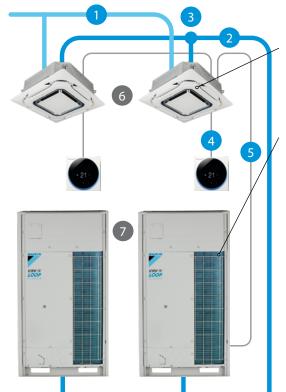
- > Shorter installation time
- > Use of existing piping and wiring
- > Reuse of materials

Lower investment and reduced running costs

- > CAPEX: Lower initial investment
- > OPEX: Lower energy consumption and maintenance costs
- > Keep your business running seamlessly

Higher property value

- > Higher property value
- > Improved facilities
 - Subsidies
 - Certifications (BREEAM, LEED and WELL)

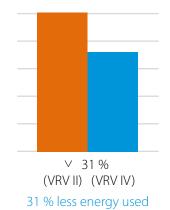


The Daikin upgrade solution:

Replace indoor units (optional)

 Depending on model type and condition the indoor units can be kept.

Replace outdoor units





VRV-Q benefits to increase your profit:

Optimise your business

Less installation time

Tackle more projects in less time thanks to faster installation. It is more profitable than replacing the full system with new piping.

Lower installation costs

Reducing installation costs enables you to offer customers the most cost-effective solution and improve your competitive edge.

Replace non-Daikin systems

NON DAIKIN DAIKIN

It is a trouble-free replacement solution for Daikin systems and for systems made by other manufacturers.

Easy as one-two-three

A simple solution for replacement technology enables you to handle more projects for more customers in less time and offer them the best price! Everybody wins.

Watch our online seminar on replacement VRV now!





	VRV-Q , keeping indoor units	VRV-Q , replacing indoor units	Completely new installation with standard VRV
Remove outdoor unit	21 %	21 %	21 %
Install new outdoor unit	14 %	14 %	14 %
Clean cooling circuit and leak test	14 %	14 %	14 %
	-	8 %	8 %
Remove refrigerant pipes and other tasks	-	-	8 %
Install new refrigerant pipes	-	-	14 %
Install new indoor units and other tasks	-	21 %	21 %
Total installation time	49 %	78 %	100 %

Technology insight – Pipe cleaning and automatic refrigerant charging

Pipe cleaning and automatic refrigerant charging ensures a trouble-free operation.

Thanks to the pipe cleaning, possible contamination in the pipes is collected ensuring a trouble-free operation as with a completely new system.

The automatic charging ensures the correct amount of refrigerant is charged, so knowledge of the exact piping layout is not needed!

One touch convenience:

- Measure and charge refrigerant
- > Test operation







Replacement VRV, heat recovery

Quick & quality replacement for R-22 and R-407C systems

- > Cost effective and fast replacement as only the outdoor and indoor unit needs to be replaced, meaning almost no work has to be carried out inside the building
- > Efficiency gains of more than 40% can be realized, thanks to technological developments in heat pump technology and the more efficient R-410A refrigerant
- > Less intrusive and time consuming installation compared to installing a new system, as the refrigerant piping can be maintained
- > Unique automatic refrigerant charge eliminates the need to calculate refrigerant volume and allows safe replacement of competitor replacement
- > Automatic cleaning of refrigerant piping ensures a clean piping network, even when a compressor breakdown has occurred
- > Possibility to add indoor units and increase capacity without changing the refrigerant piping
- > Possibility to spread the various stages of replacement thanks to the modular design of the VRV system
- > Accurate temperature control, fresh air provision, air handling units and Biddle air curtains all integrated in a single system requiring only one single point of contact (RXYQQ-U only)
- > Incorporates VRV IV standards & technologies: Variable Refrigerant
- > Temperature and full inverter compressors (RXYQQ-U only)

More details and final information can be found by scanning or clicking the QR codes.

> Free combination of outdoor units to meet installation space or efficiency requirements (RXYQQ-U only)





Published data with real-life indoor units





Outdoor unit syst	em		RQCEQ	280P3	460P3	500P3	540P3	712P3	744P3	816P3	
System	Outdoor	unit module 1			RQEQ140P3		RQEQ180P3	RQEC	Q140P3	RQEQ180P3	
	Outdoor	unit module 2		RQEC)140P3		RQEC)180P3		RQEQ212P3	
	Outdoor	unit module 3		-		RQEC	180P3		RQEC	212P3	
	Outdoor	unit module 4			-				RQEQ212P3		
Capacity range			HP	10	16	18	20	24	26	28	
Cooling capacity	Prated,c		kW	28.0	46.0	50.0	54.0	70.0	72.0	78.0	
Heating capacity	Prated,h		kW	32.0	52.0	56.0	60.0	78.4	80.8	87.2	
Recommended cor	mbination			4 x FXMQ63P7VEB	4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB		12 x FXSQ40A2VEB	9 x FXSQ40A2VEB +	4 x FXSQ32A2VEB + 6 x FXSQ40A2VEB + 6 x FXSQ50A2VEB		
ηs,c			%	200	191	201	198	1	94	204	
ηs,h			%	159	161	150	148	153	15	55	
Maximum number	of connec	table indoor units		21	34	39	43	52	56	60	
Indoor index	Min.			140	230	250	270	356	372	408	
connection	Nom.			280	5	00	540	712	744	816	
	Max.			364	598	650	702	926	967.0	1,061	
Piping connections	Liquid	OD	mm	9.52	12.70		15.90		19	.10	
	Gas	OD	mm	22.2		28	3.6		34	1.9	
	Total piping length	g System Actual	m				300				
Power supply	Phase/Fr	equency/Voltage	Hz/V				3~/50 /400				
Current - 50Hz	Maximur	n fuse amps (MFA)	Α	30	50	ϵ	0	8	30	90	
Outdoor unit mod	lule		RQEQ-P3		140P3		180P3		212P:	3	
Dimensions	Unit	HeightxWidthxDepth	mm				1,680x635x765				
Weight	Unit		kg			175	•		179		
Fan	Air flow rate	Cooling Nom.	m³/min		95			110			
	Туре						Propeller fan				
Sound power level	Cooling	Nom.	dBA		79		83		87		
	Heating	According to ENER LOT21	dBA		79			84			
Sound pressure leve	l Cooling	Nom.	dBA				-				
Operation range	range Cooling Min.~Max. °CE			DB -5 ~43							
_	Heating Min.~Max. °CV			CWB -20 ~15.5							
Refrigerant	Type/GWP			R-410A/2,087.5							
	Charge		kg/TCO2Eq	1	0.3/21.5		10.6/22.1		11.2/23	.4	
Power supply	Phase/Fr	equency/Voltage	Hz/V				3~/50/380-415	5			

20

Maximum fuse amps (MFA)

Current - 50Hz





Replacement VRV, heat pump



For units made and sold in Europe*

More details and final information can be found by scanning or clicking the QR codes.









RXYQQ8-12U

Outdoor unit		RXYQQ/	RQYQ-P	140P		8U	10U	12U		14U	16U	18	U	20U
Capacity range			HP	5		8	10	12		14	16	18	3	20
Cooling capacity	Prated,c		kW	14.0		22.4	28.0	33.5		40.0	45.0	50	.4	52.0
Heating capacity	Prated,h		kW	16.0		22.4	28.0	33.5		40.0	45.0	50	.4	56.0
	Max.	6°CWB	kW	-		25.0	31.5	37.5		45.0	50.0	56	.5	63.0
Recommended cor	mbination			4 x FXSQ32A	2VEB 4 x FX	FQ50AVEB	4 x FXFQ63AVEB	6 x FXFQ50			4 x FXFQ63AVE 2 x FXFQ80AVE			
ηs,c			%	194	3	302.4	267.6	247.8	3	250.7	236.5	238	3.3	233.7
ηs,h			%	137	1	167.9	168.2	161.4	1	155.4	157.8	163	3.1	156.6
SEER				-		7.6	6.8		6.3			6.0		5.9
SCOP				-		4.	.3	4.1		4.	.0	4.	2	4.0
Maximum number	of connec	table indoor units		10						64 (1)				
Indoor index	Min.			62.5	1	0.001	125.0	150.0)	175.0	200.0	225	5.0	250.0
connection	Nom.			125						-				
	Max.			162.5	2	260.0	325.0	390.	0	455.0	520.0	585	5.0	650.0
Dimensions	Unit	HeightxWidthxDepth	mm	1,680x635x	k765		1,685x930x76	5			1,685	<1,240x765		
Weight	Unit		kg	175			198			27	75		308	
Fan	Air flow rate	Cooling Nom.	m³/min	95						-				
Sound power level	Cooling	Nom.	dBA	79		78.0	79.1	83.4		80.9	85.6	83	.8	87.9
	Heating	Prated, h	dBA	79		79.6	80.9	83.5	;	83.1	86.5	85	.3	89.8
Sound pressure leve	l Cooling	Nom.	dBA	-		57	' .0	61.0		60.0	63.0	62	.0	65.0
Operation range	Cooling	Min.~Max.	°CDB	-5~43					-5	.0~43.0				
	Heating	Min.~Max.	°CWB	-20~15.	5				-20	0.0~15.5				
Refrigerant	Type/GW	P						R-	-410A/2,08	7.5				
	Charge		kg/TCO2Eq	11.1/23.2	2 5.	9/12.3	6.0/12.5	6.3/13	3.2 10).3/21.5	11.3/23.6	11.7/2	24.4	11.8/24.6
Piping connections	s Liquid	OD	mm			9.52				12.7			15.9	
	Gas	OD	mm	15.9		19.1	22.2				28.6			
	Total piping length	System Actual	m	300						300				
Power supply	Phase/Fre	equency/Voltage	Hz/V	3~/50/380	-415				3N~/	50/380-415	5			
Current - 50Hz	Maximun	n fuse amps (MFA)	Α	15		20	25		32			40		50
Outdoor unit syst	em		RXYQQ	22U	24U	26U	28U	30U	32U	34U	36U	38U	40U	42U
System		unit module 1		RXYQQ10U			RXYQQ12U			RXYQQ16	-	RXYQQ8U		QQ10U
	Outdoor	unit module 2		RXYQQ12U	RXYQQ16l	J RXYQQ14	4U RXYQQ16U	RXYQQ18U	RXYQQ16U	RXYQQ181	J RXYQQ20U			
	Outdoor	unit module 3					-	-						J RXYQQ16U
Capacity range			HP	22	24	26	28	30	32	34	36	38	40	42
Cooling capacity	Prated,c		kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	97.0	111.9	118.0	118.0
Heating capacity	Prated,h		kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	101.0	111.9	118.0	62.4
	Max.	6°CWB	kW	69.0	75.0	82.5	87.5	94.0	100.0	106.5	113.0	125.5	131.5	131.5
Recommended cor	mbination			6 x FXFQ50AVEB + 4 x FXFQ63AVEB		+ 5 x FXFQ63AV	EB + 6 x FXFQ50AVEB + /EB 4 x FXFQ63AVEB + 2 x FXFQ80AVEB				+ 10 x FXFQ63AVEB +	6 x FXFQ50AVEB + 10 x FXFQ63AVEB		
ηs,c			%	274.5	269.9	264.2		256.8	251.7	253.3	250.8	272.4	263.5	261.2
ns,h			%	171.2	167.0	164.6		169.8	163.1	166.2	162.4	167.5	170.0	165.5
SEER			,,,	6.9	6.8	6.7		.5		5.4	6.3	6.9	6.7	6.6
SCOP				4.4	4.3	- 0.,	4.2	4.3		1.2	4.1	4.3	4.3	4.2
Maximum number	of connec	table indoor units			5				64 (1)			5	5	
Indoor index	Min.	able masor arms		275.0	300.0	325.0	350.0	375.0	400.0	425.0	450.0	475.0	500.0	525.0
connection	Max.			715.0	780.0	845.0		975.0	1,040.0	1,105.0	1,170.0	1,235.0	1,300.0	1,365.0
					5.9	0 15.0	310.0	273.0	1,010.0	19.1	1,17 0.0	1,233.0	1,500.0	1,505.0
Pining connections	s Liquid	OD	mm							12.1				
Piping connections		OD	mm mm				34	19				4	13	
Piping connections	Gas Total piping	OD OD System Actual	mm mm m	28.6			34	1.9	300			4	1.3	
	Gas Total piping length	OD System Actual	mm m				34			-415		4	1.3	
Power supply Current - 50Hz	Gas Total piping length Phase/Fre	OD	mm m Hz/V			63	34		~/50 /380	-415 30		4	100	

* EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland

Water cooled VRV IV W+ series

Ideal for high rise buildings, using water as heat source

Unified range for heat pump & heat recovery and standard & geothermal series





VRV IV standards:

Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

VRV configurator

Software for simplified commissioning, configuration and customisation

For more information on these features refer to the VRV IV technologies tab

- > 7 segment display
- > Full inverter compressors
- > Connectable to stylish indoor units
- > Connectable to LT hydrobox
- > Connectable to HT hydrobox
- > Reluctance brushless DC compressor
- > Sine wave DC inverter
- > Manual demand function





Welcome a new range of features

More flexibility

- > Mixed connection of HT hydroboxes and VRV indoor units
- > Connects to stylish indoor units such as Daikin Emura, Nexura, ... (no mixed connection with other indoors possible)
- > Extension of the range: 8-10-12-14HP, combinable up to 42HP while keeping the most compact casing in the market
- > Extended piping length up 165m (actual)
- > Extended indoor unit height difference to 30m

More capacity

> Up to 72% increased capacity (!) per model thanks to new compressor and larger heat exchanger

Easier commissioning & customisation

- > 7 segment display
- > 2 analogue input signals allowing external control of
- ON-OFF (e.g. compressor)
- Operation mode (cooling / heating)
- Limit of capacity
- Error signal

Most compact casing in the market!







8 to 14 HP

16 to 28 HP

30 to 42 HP

Unique zero heat dissipation principle



- No need for ventilation or cooing in the technical room
- > Control heat dissipation to achive maximum efficiency: set target technical room temperature and unit regulates actual heat dissipation

Total solution



Daikin Emura



Biddle air curtain



FTXA-AW/BS/BB/BT Stylish



Air handling unit for ventilation



Fully flat cassette



Low temperature hydrobox



Intelligent Manager



High temperature hydrobox

With all existing standard functions





Indoor installation makes unit invisible from the outside

- > Seamless integration in the surrounding architecture as you cannot see the unit
- > Highly suited for sound sensitive areas as there is no external operation sound
- > Very flexible indoor installation as there is no heat dissipation
- > Superior efficiency, even in the most extreme outside conditions, especially in geothermal operation

0'0'0 LOOP Unified range for heat pump & and standard & geothermal

Variable water flow control

- > The variable water flow control option reduces excessive energy use by the circulation pump.
- > By controlling a variable water valve, the water flow is reduced when possible, saving energy.
- > Via 0~10 volt

Lower refrigerant concentration levels

Water-cooled VRV systems typically have less refrigerant per system making it ideal to comply with the EN378 legislation limiting the amount of refrigerant in hospitals and hotels.

The refrigerant levels remain limited thanks to:

- > limited distance between outdoor and indoor unit
- > modularity: enabling small systems per floor instead of one big system. Thanks to the water circuit heat

recovery is still possible in the entire building

Maximum design flexibility and installation speed

- > Quickly and flexibly design your system with a unique range of single and multi BS boxes.
- > A wide variety of compact and lightweight multi BS boxes greatly reduces installation time.
- > Free combination of single and multi BS boxes

Flow Valve Input Signal low Control Valv

Single port



BS1O 10.16.25A

Multi port: 4 - 6 - 8 - 10 - 12 - 16



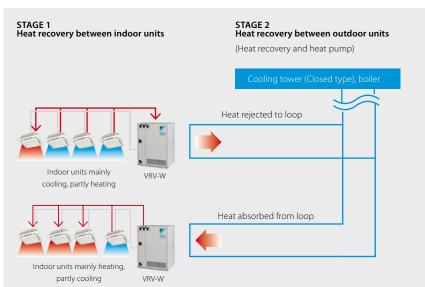
BS 4 Q14 A

BS 6, 8 Q14 A

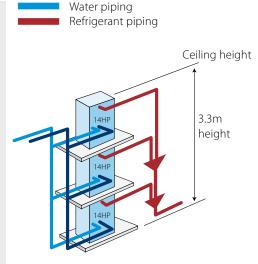


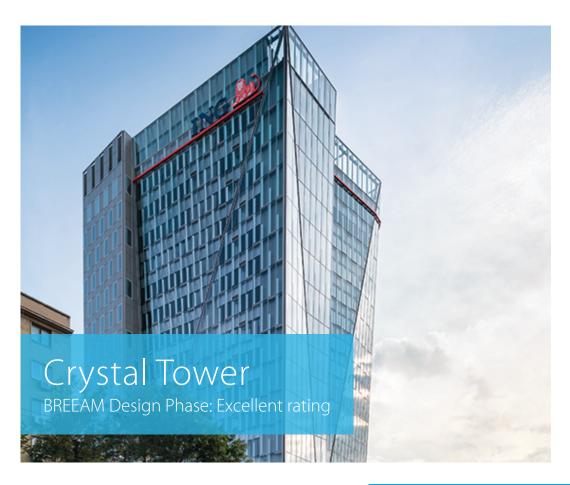
BS 10, 12 Q14 A BS 16 O14 A

2-stage heat recovery



Stacked configuration







A great and well-known example of a Daikin Total Solution leading to high energy-efficient HVAC consumption

- > A combination of VRV, Sky Air and Applied systems ensuring all offices and common areas are fully air conditioned.
- > Water-cooled VRV as the main contributor to total HVAC energy efficiency due to its two-stage heat recovery system.
- > Flexibility: individual thermal control and comfort with VRV on each floor and space.
- > Problem-free connection between Daikin units and the LonWorks BMS system ensures the building's total energy consumption is properly monitored and controlled.

Location

48 Lancu de Hunedoara Boulevard Bucharest Romania

Building details

Built-up area: 24,728 m²
Total usable area: 20,020 m²
Floors: 4 basements, 15 floors, technical floor
Building height: 72 m
Office space per level: approx. 1,000 m²

Daikin systems installed

- > 67 x VRV water-cooled units
- → 2 x VRV outdoor heat pump units
- > 289 VRV indoor units (265 ducts, 24 x cassettes)
- > 5 x Sky Air with Roundflow Cassettes
- > 4 x air-cooled water chillers
- > 11 x DMS504B51 (LonWorks gateway)

Awards

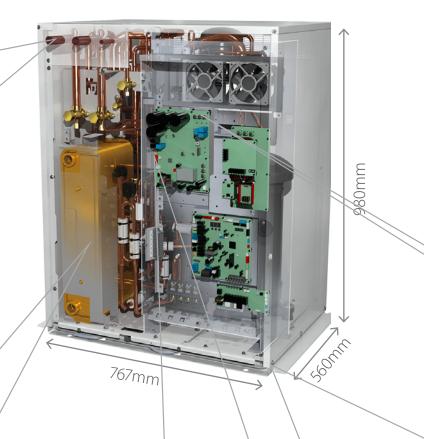
- > Green Building of the Year 2012 (ROGBC)
- > Environmental Social & Sustainability award (ESSA)

Innovations

for maximum flexibility and ease of installation

Horizontal or vertical piping connection

Highly improved efficiency thanks to enlarged heat exchanger





Easy front plate removal



step 1

step 2





Zero heat dissipation principle

No need for ventilation or cooling of the technical room



> Enhancing installation flexibility and reliability of parts



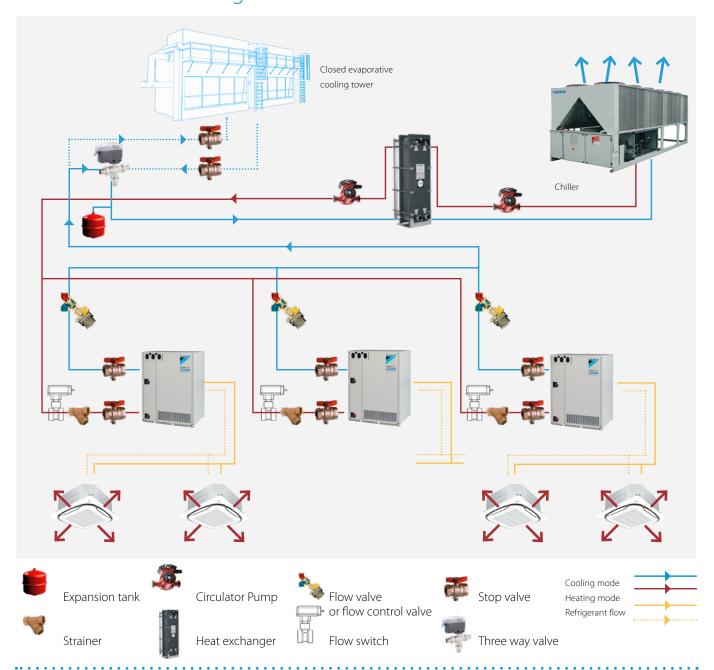




Application

example

Closed evaporative cooling tower used for cooling, Chiller used for heating



Benefits of this setup

- Chiller is only used when cooling tower capacity is not enough and/or when cooling and heating load of VRV is unbalanced → very energy efficient installation
- > In case the chiller is operating, a renewable heat source (air) is used, contributing to BREEAM score.
- > It is possible to downsize the cooling tower, making the installation more compact

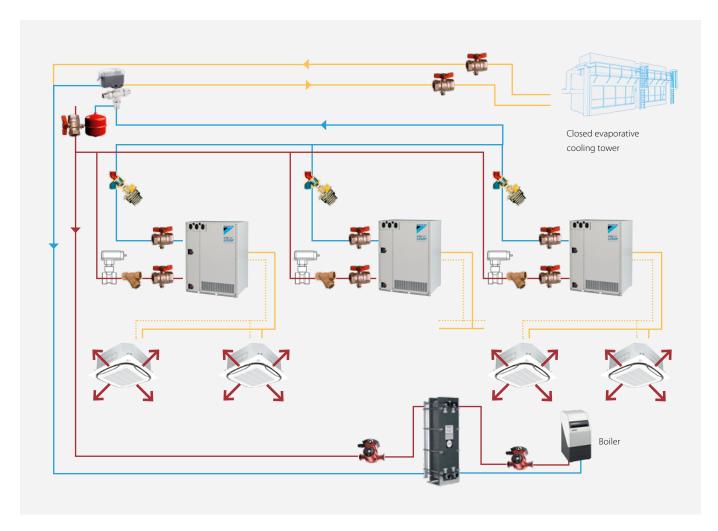
When to use?

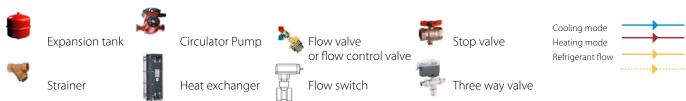
- > When there is anyway a chiller used for other purposes in the building
- > When space for outdoor installation is limited
- > Efficiency / green building certification schemes oriented projects

Application

example

Dry cooler used for cooling, boiler used for heating





Benefits of this setup

- Simple, cost efficient. Good option to use VRV technology in high-rise building
- > Does not make any special demand to the building/project/installation location
- > Provides high efficiency as for hotel application it is usual to have simultaneous cooling and heating load.
- > Heat recovery process in the water loop often allows the water temperature to stay within acceptable range even without using drycooler and boiler.

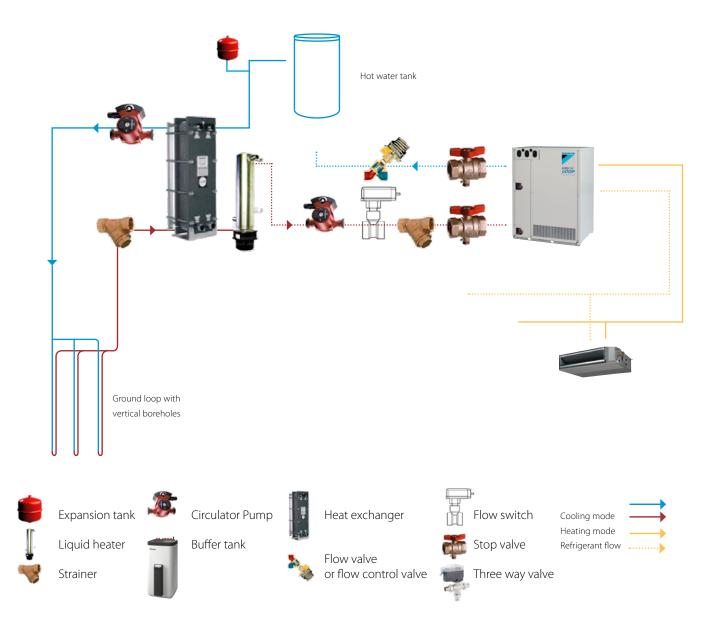
When to use?

 > For high-rise buildings or other places where VRV Water Cooled is preferable because of installation conditions

Application

example

Geothermal operation



Benefits of this setup

- > Very energy efficient
- Ground loop can be in service for a very long time, so future equipment upgrades/replacements are easy
- Vertical boreholes provide more stable water temperature (= Constant high efficiency) and do not occupy a lot of ground

When to use?

- > When the soil is suitable for geothermal loops and there is availability of geothermal installation expertise locally
- For the projects with high requirements to energy efficiency, green building certification oriented

Ground loop

Examples

Open system

Uses water from a well or surface water (river, lake). The water is pumped back to a second well or surface water



Conditions:

- > At 20 m depth water has a constant temperature of 10°C through the year
- > Surface water cools down to 5°C during winter
- Can be the most economical type of geothermal system
- Constant ground water temperature has positive impact on heat pump efficiency
- Risk to damage system components because of water quality → a secondary loop might be required to protect the heat exchanger
- Water should be tested for acidity, mineral content, organic content and corosiveness:
- In many areas open systems are prohibited due to environmental concerns

Closed system

Uses water pipes that are buried in the ground and exchange heat with the ground



Vertical system conditions

- > Typical depth: 30-140 m. Below 15 m, the temperature of the ground is constant around
- ✓ Less surface space required
- √ Very constant ground temperature
- × Expensive due to drilling cost

For smaller applications also horizontal loops can be used



Horizontal loop system

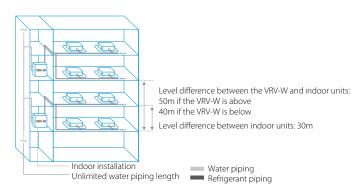
- > Typical trench depth: 1 2 m. The ground temperature varies, but always above 5°C (Exception: in cold areas)
- Slinky loop: the plastic geothermal loop pipe is coiled in overlapped circles and flattened (Installed where there is not enough space for closed horizontal)
- ✓ Installation is easier and less expensive than vertical closed loops.
- Mainly for small applications as the property land should be large enough
- You cannot plant trees or build constructions over the land containing the loop.
- **x** Glycol is needed to prevent freezing of the water.

VRV IV water cooled+ series

Ideal for high rise buildings, using water as heat source

- Environmental conscious solution: reduced CO₂ emmisions thanks to the use of geothermal energy as a renewable energy source and typical lower refrigerant levels making it ideal to comply with FN378
- > Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units, Biddle air curtains and hot water
- > Unique zero heat dissipation principle obviates the need for ventilation or cooling in the technical room, maximising installation flexibility
- > Wide range of indoor units: possibility to combine VRV with stylish indoor units (Daikin Emura, Perfera)
- > Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, VRV configurator, 7-segment display and full inverter compressors
- > Developed for easy installation and servicing: choice between top or front connection for refrigerant piping and rotating switch box for easy access to serviceable parts
- Compact & lightweight design can be stacked for maximum space saving: 42HP can be installed in less than 0,5m² floorspace
- > 2-stage heat recovery: first stage between indoor units, second stage between outdoor units thanks to the storage of energy in the water circuit

- > Unified model for heat pump and heat recovery version and geothermal and standard operation
- > Variable Water Flow control option increases flexibility and control
- 2 analogue input signals allowing external control of ON-OFF, operation mode, error signal, ...
- > Contains all standard VRV features







Published data with real-life indoor units

For units made and sold in Europe*

Connectable stylish indoor units

			20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Daikin Emura - Wall mounted unit	NEW	FTXJ-MW/MS	•	•	•		•		
Stylish - Wall mounted unit		FTXA-AW/BS/BB/BT	•	•	•	•	•		
Perfera wall mounted	NEW	FTXM-R	•	•	•	•	•	•	•
Perfera floor standing	NEW	FVXM-A	•	•	•		•		
Floor standing unit		FVXM-F		•	•				

BPMKS box needed to connect RA indoors to VRV IV (RYYQ / RXYQ)

More details and final information can be found by scanning or clicking the QR codes.



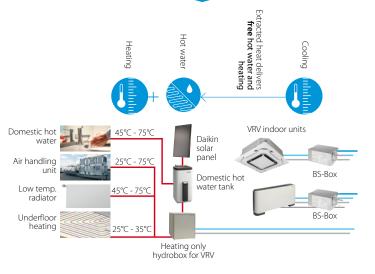


Outdoor unit			RWEYQ	8T9	10T9	12T9	14T9
Capacity range			HP	8	10	12	14
Cooling capacity	Prated,c		kW	22.4	28.0	33.5	40.0
Heating capacity	Prated,h		kW	25.0	31.5	37.5	45.0
	Max. 6°0	CWB	kW	25.0	31.5	37.5	45.0
Recommended cor	mbination			4 x FXMQ50P7VEB	4 x FXMQ63P7VEB	6 x FXMQ50P7VEB	1 x FXMQ50P7VEB + 5 x FXMQ63P7VEB
ηs,c			%	326.8	307.8	359.0	330.7
ηs,h			%	524.3	465.9	436.0	397.1
SEER				8.4	7.9	9.2	8.5
SCOP				13.3	11.8	11.1	10.1
Maximum number	of connectabl	e indoor units			64	(1)	
Indoor index	Min.			100.0	125.0	150.0	175.0
connection	Max.			300.0	375.0	450.0	525.0
Dimensions	Unit He	eightxWidthxDepth	mm		980x76	57x560	
Weight	Unit		kg	19		19	
Sound power level	Cooling No	om.	dBA	65.0	71.0	72.0	74.0
Sound pressure level	Cooling No	om.	dBA	48.0	50.0	56.0	58.0
Operation range	Inlet water Co	oling Min.~Max.	°CDB		10 ~	-45	
	temperature He	ating Min.~Max.	°CWB		10 ~	-45	
	Temperature Ma around casing	ax.	°CDB		4	0	
	Humidity Cod around casing Hea	oling~ Max. ating	%		80 /	~80	
Refrigerant	Type/GWP				R-410A	/2,087.5	
	Charge		kg/TCO2Eq	7.9/	16.5	9.6/	20.0
Piping connections	Liquid O)	mm	9.	52	12	2.7
	Gas OI)	mm	19.1	22.2	28	3.6
	HP/LP gas Of)	mm	15.9/19.1	19.1/22.2	19.1/28.6	22.2/28.6
	Drain Siz	e			14mm OD	/ 10mm ID	
	Water Inle	et/Outlet Size			ISO 228-G1 1/4 B/	ISO 228-G1 1/4 B	
	Total piping Syllength	stem Actual	m		50	00	
Power supply	Phase/Freque	ency/Voltage	Hz/V		3N~/50	/380-415	
Current - 50Hz	Maximum fu	se amps (MFA)	A	2	0	2	5





Stage 1 heat recovery between indoor units



or

Reversible low temperature hydrobox

25°C - 45°C

25℃ - 35℃

Low temp.

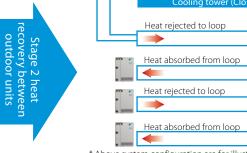
Underfloor heating

radiator

Liquid pipe Gas pipe Discharge gas pipe

Hot water





* Above system configuration are for illustration purpose only.

Outdoor unit syst	em	RWEY	Q 16T9	18T9	20T9	22T9	24T9	26T9	28T9
System	Outdoor unit mode	ule 1	RWE	YQ8T	RWE	/Q10T	RWE	YQ12T	RWEYQ14T
•	Outdoor unit mode	ule 2	RWEYQ8T	RWEY	/Q10T	RWE	/Q12T	RWE	YQ14T
Capacity range		H	P 16	18	20	22	24	26	28
Cooling capacity	Prated,c	kV	V 44.8	50.4	56.0	61.5	67.0	73.5	80.0
Heating capacity	Prated,h	kV	V 50.0	56.5	62.5	69.0	75.0	82.5	90.0
	Max. 6°CWB	kV	V 50.0	56.5	62.5	69.0	75.0	82.5	90.0
Recommended cor	mbination			4 x FXMQ50P7VEB + 4 x FXMQ63P7VEB	8 x FXMQ63P7VEB	6 x FXMQ50P7VEB + 4 x FXMQ63P7VEB	12 x FXMQ50P7VEB	7 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	
ηs,c		9	6 307.6	308.7	298.1	311.3	342.6	322.5	306.1
ηs,h		9	6 459.2	491.1	466.8	447.9	434.5	406.9	387.9
SEER			7.	.9	7.7	8.0	8.8	8.3	7.9
SCOP			11.7	12.5	11.9	11.4	11.1	10.4	9.9
Maximum number	of connectable indo	or units				64 (1)			
Indoor index	Min.		200.0	225.0	250.0	275.0	300.0	325.0	350.0
connection	Max.		600.0	675.0	750.0	825.0	900.0	975.0	1,050.0
Piping connections	Liquid OD	mn	n 12.7		15	5.9		19	9.1
	Gas OD	mn	n	28	3.6			34.9	
	HP/LP gas OD	mn	1 22.2	/ 28.6	28.6	/ 28.6		28.6 / 34.9	
	Total piping System length	Actual	١			500			
Power supply	Phase/Frequency/	Voltage Hz/	/		3	3N~/50 /380-41	5		
Current - 50Hz	Maximum fuse am	ρs (MFA)	A 3	32	35	4	0	5	0
Outdoor unit syst		RWEYO	Q 30T9	32T9	34T9	36T9	38T9	40T9	42T9
System	Outdoor unit mode	ule 1		RWEYQ10T			RWEYQ12T		RWEYQ14T
	Outdoor unit mode	ule 2		YQ10T		RWEYQ12T			YQ14T
	Outdoor unit mode	ule 3	RWEYQ10T		RWEYQ12T			RWEYQ14T	
Capacity range		H	P 30	32	34	36	38	40	42
Cooling capacity	Prated,c	kV	V 84.0	89.5	95.0	100.5	107.0	113.5	120.0
Heating capacity	Prated.h								
	rialeu,ii	kV		100.5	106.5	112.5	120.0	127.5	135.0
	Max. 6°CWB	kV kV	94.5 V 94.5	100.5	106.5	112.5	120.0	127.5	135.0
Recommended cor	Max. 6°CWB	kV	V 94.5 V 94.5 12 x FXMQ63P7VEB	100.5 6 x FXMQ50P7VEB + 8 x FXMQ63P7VEB	106.5 12 x FXMQ50P7VEB + 4 x FXMQ63P7VEB	112.5 18 x FXMQ50P7VEB	120.0 13 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	127.5 8 x FXMQ50P7VEB + 10 x FXMQ63P7VEB	135.0 3 x FXMQ50P7VEB 15 x FXMQ63P7VE
ηs,c	Max. 6°CWB	kV 9	V 94.5 V 94.5 12xFXMQ63P7VEB	100.5 6 x FXMQ50P7VEB + 8 x FXMQ63P7VEB 318.2	106.5 12 x FXMQ50P7VEB + 4 x FXMQ63P7VEB 342.5	112.5 18 x FXMQ50P7VEB 352.3	120.0 13 x FXMQ50P7VEB + 5 x FXMQ63P7VEB 338.8	127.5 8 x FXMQ50P7VEB + 10 x FXMQ63P7VEB 341.4	135.0 3 x FXMQ50P7VEB 15 x FXMQ63P7VE 332.9
ηs,c ηs,h	Max. 6°CWB	kV	V 94.5 V 94.5 12xFXMQ63P7VEB 6 308.3 6 467.2	100.5 6 x FXMQ50P7VEB + 8 x FXMQ63P7VEB 318.2 456.1	106.5 12 x FXMQ50P7VEB + 4 x FXMQ63P7VEB 342.5 447.0	112.5 18 x FXMQ50P7VEB 352.3 438.5	120.0 13 x FXMQ50P7VEB + 5 x FXMQ63P7VEB 338.8 419.4	127.5 8 x FXMQ50P7VEB + 10 x FXMQ63P7VEB 341.4 404.4	135.0 3 x FXMQ50P7VEB 15 x FXMQ63P7VE 332.9 391.2
ηs,c ηs,h SEER	Max. 6°CWB	kV 9	V 94.5 V 94.5 12xFXMQ63P7VEB 6 308.3 6 467.2 7.9	100.5 6xFXMQ50P7VEB+ 8xFXMQ63P7VEB 318.2 456.1 8.2	106.5 12xFXMQ50P7VEB+ 4xFXMQ63P7VEB 342.5 447.0 8.8	112.5 18 x FXMQ50P7VEB 352.3 438.5 9.0	120.0 13 x FXMQ50P7VEB + 5 x FXMQ63P7VEB 338.8 419.4	127.5 8 x FXMQ50P7VEB + 10 x FXMQ63P7VEB 341.4 404.4 3.7	135.0 3 x FXMQ50P7VEB 15 x FXMQ63P7VE 332.9 391.2 8.5
ηs,c ηs,h SEER SCOP	Max. 6°CWB mbination	kV 9 9	V 94.5 V 94.5 12xFXMQ63P7VEB 6 308.3 6 467.2	100.5 6 x FXMQ50P7VEB + 8 x FXMQ63P7VEB 318.2 456.1	106.5 12 x FXMQ50P7VEB + 4 x FXMQ63P7VEB 342.5 447.0	112.5 18 x FXMQ50P7VEB 352.3 438.5 9.0 11.2	120.0 13 x FXMQ50P7VEB + 5 x FXMQ63P7VEB 338.8 419.4	127.5 8 x FXMQ50P7VEB + 10 x FXMQ63P7VEB 341.4 404.4	135.0 3 x FXMQ50P7VEB 15 x FXMQ63P7VE 332.9 391.2
ns,c ns,h SEER SCOP Maximum number	Max. 6°CWB mbination	kV 9 9	V 94.5 V 94.5 12xFXMQ63P7VEB 6 308.3 6 467.2 7.9 11.9	100.5 6xFXMQ50P7VEB + 8xFXMQ63P7VEB 318.2 456.1 8.2 11.6	106.5 12 x F X M Q S O P T V E B + 4 x F X M Q G 3 P T V E B 342.5 447.0 8.8 11.4	112.5 18xFXMQ50P7VEB 352.3 438.5 9.0 11.2 64 (1)	120.0 13 x FXMQ50P7VEB + 5 x FXMQ63P7VEB 338.8 419.4 8 10.7	127.5 8 x FXMQ50P7VEB + 10 x FXMQ63P7VEB 341.4 404.4 8.7	135.0 3xFXMQ50P7VEB 15xFXMQ63P7VE 332.9 391.2 8.5 10.0
ŋs,c ŋs,h SEER SCOP Maximum number Indoor index	Max. 6°CWB mbination of connectable indo Min.	kV 9 9	V 94.5 V 94.5 12xFXMQ63P7VEB 6 308.3 6 467.2 7.9 11.9	100.5 6xFXMQ50P7VEB + 8xFXMQ63P7VEB 318.2 456.1 8.2 11.6	106.5 12 x FXMQ50P7VEB + 4 x FXMQ63P7VEB 342.5 447.0 8.8 11.4	112.5 18xFXMQ50P7VEB 352.3 438.5 9.0 11.2 64 (1) 450.0	120.0 13 x FXMQ50P7VEB + 5 x FXMQ63P7VEB 338.8 419.4 8 10.7	127.5 8 x FXMQ50P7VEB + 10 x FXMQ63P7VEB 341.4 404.4 3.7 10.3	135.0 3xFXMQ50P7VEB 15xFXMQ63P7VE 332.9 391.2 8.5 10.0
ns,c ns,h SEER SCOP Maximum number Indoor index connection	Max. 6°CWB mbination of connectable indo Min. Max.	kV 9 9	V 94.5 V 94.5 12xFXMQ63P7VEB 6 308.3 6 467.2 7.9 11.9	100.5 6xFXMQ50P7VEB + 8xFXMQ63P7VEB 318.2 456.1 8.2 11.6	106.5 12 x F X M Q S O P T V E B + 4 x F X M Q G 3 P T V E B 342.5 447.0 8.8 11.4	112.5 18xFXMQ50P7VEB 352.3 438.5 9.0 11.2 64 (1) 450.0 1,350.0	120.0 13 x FXMQ50P7VEB + 5 x FXMQ63P7VEB 338.8 419.4 8 10.7	127.5 8 x FXMQ50P7VEB + 10 x FXMQ63P7VEB 341.4 404.4 8.7	135.0 3xFXMQ50P7VEB 15xFXMQ63P7VE 332.9 391.2 8.5 10.0
ns,c ns,h SEER SCOP Maximum number Indoor index connection	Max. 6°CWB mbination of connectable indo Min. Max. s Liquid OD	kV 9 9	V 94.5 V 94.5 12xFXMQ63P7VEB 6 308.3 6 467.2 7.9 11.9 375.0 1,125.0	100.5 6xFXMQ50P7VEB + 8xFXMQ63P7VEB 318.2 456.1 8.2 11.6	106.5 12 x FXMQ50P7VEB + 4 x FXMQ63P7VEB 342.5 447.0 8.8 11.4	112.5 18xFXMQ50P7VEB 352.3 438.5 9.0 11.2 64 (1) 450.0	120.0 13 x FXMQ50P7VEB + 5 x FXMQ63P7VEB 338.8 419.4 8 10.7 475.0 1,425.0	127.5 8xFXMQ50P7VEB + 10xFXMQ63P7VEB 341.4 404.4 3.7 10.3	135.0 3xFXMQ50P7VEB 15xFXMQ63P7VE 332.9 391.2 8.5 10.0
ns,c ns,h SEER SCOP Maximum number Indoor index connection	of connectable indo Min. Max. s Liquid OD Gas OD	kV 9 9 9 9 9	V 94.5 V 94.5 12xFXMQG3P7VEB 6 308.3 6 467.2 7.9 11.9 375.0 1,125.0	100.5 6xFXMQ50P7VEB + 8xFXMQ63P7VEB 318.2 456.1 8.2 11.6 400.0 1,200.0	106.5 12 x FXMQ50P7VEB + 4 x FXMQ63P7VEB 342.5 447.0 8.8 11.4	112.5 18xFXMQ50P7VEB 352.3 438.5 9.0 11.2 64 (1) 450.0 1,350.0 19.1	120.0 13 x FXMQ50P7VEB + 5 x FXMQ63P7VEB 338.8 419.4 8 10.7 475.0 1,425.0	127.5 8 x FXMQ50P7VEB + 10 x FXMQ63P7VEB 341.4 404.4 3.7 10.3 500.0 1,500.0	135.0 3xFXMQ50P7VEB 15xFXMQ63P7VE 332.9 391.2 8.5 10.0
ŋs,c ŋs,h SEER SCOP Maximum number Indoor index connection	of connectable indo Min. Max. S Liquid OD Gas OD HP/LP gas OD	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	V 94.5 V 94.5 12xFXMQ63P7VEB 6 308.3 6 467.2 7.9 11.9 375.0 1,125.0	100.5 6xFXMQ50P7VEB + 8xFXMQ63P7VEB 318.2 456.1 8.2 11.6	106.5 12 x FXMQ50P7VEB + 4 x FXMQ63P7VEB 342.5 447.0 8.8 11.4	112.5 18xFXMQ50P7VEB 352.3 438.5 9.0 11.2 64 (1) 450.0 1,350.0 19.1	120.0 13 x FXMQ50P7VEB + 5 x FXMQ63P7VEB 338.8 419.4 8 10.7 475.0 1,425.0	127.5 8xFXMQ50P7VEB + 10xFXMQ63P7VEB 341.4 404.4 3.7 10.3	135.0 3xFXMQ50P7VEB 15xFXMQ63P7VE 332.9 391.2 8.5 10.0
ηs,c ηs,h SEER SCOP	of connectable indo Min. Max. s Liquid OD Gas OD	y oor units	V 94.5 V 94.5 12xFXMQ63P7VEB 6 308.3 6 467.2 7.9 11.9 375.0 1,125.0	100.5 6xFXMQ50P7VEB + 8xFXMQ63P7VEB 318.2 456.1 8.2 11.6 400.0 1,200.0	106.5 12 x FXMQ50P7VEB + 4 x FXMQ63P7VEB 342.5 447.0 8.8 11.4	112.5 18xFXMQ50P7VEB 352.3 438.5 9.0 11.2 64 (1) 450.0 1,350.0 19.1	120.0 13 x FXMQ50P7VEB + 5 x FXMQ63P7VEB 338.8 419.4 8 10.7 475.0 1,425.0	127.5 8 x FXMQ50P7VEB + 10 x FXMQ63P7VEB 341.4 404.4 3.7 10.3 500.0 1,500.0	135.0 3xFXMQ50P7VEB 15xFXMQ63P7VE 332.9 391.2 8.5 10.0
ns,c ns,h SEER SCOP Maximum number Indoor index connection	of connectable indo Min. Max. s Liquid OD Gas OD HP/LP gas OD Total piping System	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	V 94.5 V 94.5 12xFXMQG3P7VEB 6 308.3 6 467.2 7.9 11.9 375.0 1,125.0	100.5 6xFXMQ50P7VEB + 8xFXMQ63P7VEB 318.2 456.1 8.2 11.6 400.0 1,200.0	106.5 12xFXMQ50P7VEB + 4xFXMQ63P7VEB 342.5 447.0 8.8 11.4 425.0 1,275.0	112.5 18xFXMQ50P7VEB 352.3 438.5 9.0 11.2 64 (1) 450.0 1,350.0 19.1	120.0 13 x FXMQ50P7VEB + 5 x FXMQ63P7VEB 338.8 419.4 8 10.7 475.0 1,425.0	127.5 8 x FXMQ50P7VEB + 10 x FXMQ63P7VEB 341.4 404.4 3.7 10.3 500.0 1,500.0	135.0 3xFXMQ50P7VEB 15xFXMQ63P7VE 332.9 391.2 8.5 10.0

⁽I)Actual number of units depends on the indoor unit type (VRV DX indoor, RA DX indoor, etc.) and the connection ratio restriction for the system (being; $50\% \le CR \le 130\%$). | Contains fluorinated greenhouse gases * EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland



VRV IV

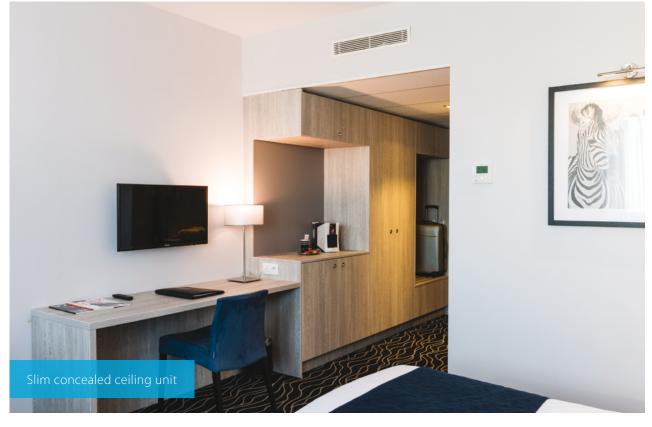
indoor units

	VRV indoor units	123
	Ceiling mounted cassette units	130
UNIQUE	FXFQ-B	130
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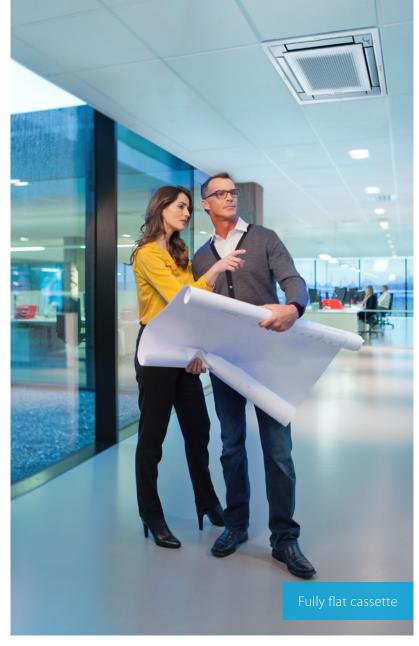












Products overview **JRJ IV**

Capacity class (kW)

pe	Model		Product name	1	5 20	25	32	40	50	63	71	80	100	125	140	200	250
	UNIQUE Round flow cassette	360° air discharge for optimum efficiency and comfort > Auto cleaning function ensures high efficiency > Intelligent sensors save energy and maximize comfort > Flexibility to suit every room layout > Lowest installation height in the market! > Widest choice ever in decoration panel designs and colors	FXFQ-B	l l	•	•	•	•	•	•		•	•	•			
	UNIQUE Fully flat cassette	Unique design that integrates fully flat into the ceiling > Perfect integration in standard architectural ceiling tiles > Blend of iconic design and engineering excellence > Intelligent sensors save energy and maximize comfort > Small capacity unit developed for small or well-insulated rooms > Flexibility to suit every room layout	FXZQ-A		•	•	•	•	•								
	2-way blow ceiling mounted cassette	Thin, lightweight design installs easily in narrow ceiling spaces > Depth of all units is 620mm, ideal for narrow ceiling spaces > Flexibility to suit every room layout > Reduced energy consumption thanks to DC fan motor > The flaps close entirely when the unit is not operating > Optimum comfort with automatic air flow adjustment to the required load	FXCQ-A		•	•	•	•	•	•		•		•			
	Ceiling mounted corner cassette	1-way blow unit for corner installation > Compact dimensions enable installation in narrow ceiling voids > Flexible installation thanks to different air discharge options	FXKQ-MA			•	•	•		•							
	Slim concealed ceiling unit	Slim design for flexible installation > Compact dimensions enable installation in narrow ceiling voids > Medium external static pressure up to 44Pa > Only grilles are visible > Small capacity unit developted for small of well-insulated rooms > Reduced energy consumption thanks to DC fan motor	FXDQ-A3		•	•	•	•	•	•				leani optio		M	ulti
) 	Concealed ceiling unit with medium ESP	Slimmest yet most powerfull medium static pressure unit on the market! > Slimmest unit in class, only 245mm > Low operating sound level > Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths > Automatic air flow adjustment function measures the air volume and static pressure and adjusts it towards the nominal air flow, guaranteeing comfort	FXSQ-A			•	•	•	•	•		•	•	•	•	Mu	ult
	Concealed ceiling unit with high ESP	ESP up to 200, ideal for large sized spaces > Optimum comfort guaranteed no matter the length of ductwork or type of grilles, thanks to automatic air flow adjustment > Reduced energy consumption thanks to DC fan motor > Flexible installation as the air suction direction can be altered from rear to bottom suction	FXMQ-P7						•	•		•	•	•			
	Concealed ceiling unit with high ESP	ESP up to 270, ideal for extra large sized spaces > Only grilles are visible > Large capacity unit: up to 31.5 kW heating capacity	FXMQ-MB	1												•	•
5	Wall mounted unit	For rooms with no false ceilings nor free floor space > Flat, stylish front panel is more easy to clean > Small capacity unit developted for small of well-insulated rooms > Reduced energy consumption thanks to DC fan motor > The air is comfortably spread up- and downwards thanks to 5 different discharge angles	FXAQ-A		•	•	•	•	•	•							
5	Ceiling suspended unit	For wide rooms with no false ceilings nor free floor space > Ideal for comfortable air flow in wide rooms thanks to Coanda effect > Rooms with ceilings up to 3.8m can be heated or cooled very easily! > Can easily be installed in both new and refurbishment projects > Can even be mounted in corners or narrow spaces without any problem > Reduced energy consumption thanks to DC fan motor	FXHQ-A				•			•			•				
	UNIQUE 4-way blow ceiling suspended unit	Unique Daikin unit for high rooms with no false ceilings nor free floor space > Rooms with ceilings up to 3.5m can be heated up or cooled down very easily! > Can easily be installed in both new and refurbishment projects > Flexibility to suit every room layout > Reduced energy consumption thanks to DC fan motor	FXUQ-A								•		•				
	Floor standing unit	For perimeter zone air conditioning Can be installed in front of glass walls or free standing as both the front and the back are finished Ideal for installation beneath a window Requires very little installation space Wall mounted installation facilitates cleaning beneath the unit	FXLQ-P		•	•	•	•	•	•							
	Concealed floor standing unit	Ideal for installation in offices, hotels and residential applications > Discretely concealed in the wall, leaving only the suction and discharge grilles visible > Can even be installed underneath a window > Requires very little installation space as the depth is only 200mm > High ESP allows flexible installation	FXNQ-A		•	•	•	•	•	•							
							1								L. T	22.4	

⁽¹⁾ Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m

 $^{(2) \} Nominal \ heating \ capacities \ are \ based \ on: indoor \ temperature: 20^{\circ}CDB, outdoor \ temperature: 7^{\circ}CDB, 6^{\circ}CWB, equivalent \ refrigerant \ piping: 5m, level \ difference: 0m \ piping: 5m, level \$

Connectable outdoor unit

Products overview Stylish indoor units

Depending on the application, Split and Sky Air indoor units can be connected to our VRV IV and VRV IV S-series outdoor units. Refer to the **autdoor unit partfolio** for combination restriction

outdoor	unit portfolio for combinati	on restrictior	ns.						Capacit	y class	(kW)	٦٠	7-n	RXYSCQ-TV1 ³ RXYSQ-TV9 ³ RXYSQ-TY9/TY1 ³	RWEYQ-T94	Q-T
Туре	Model	Product name		15	20	25	35	42	50	60	71	RYYQ-U	RXYQ-U	RXYS RXYS	RWE	RXYLQ-T
	Round flow cassette (incl. auto-cleaning function)	FCAG-B					•		•	•				✓		
Ceiling mounted cassette	Fully flat cassette	FFA-A9				•	•		•	•				√		
Concealed	Slim concealed ceiling unit	FDXM-F9				•	•		•	•				✓		
ceiling	Concealed ceiling unit with inverter-driven fan	FBA-A(9)					•		•	•		to clea		✓		
	Daikin Emura Wall mounted unit reddot winner 2022	FTXJ- AW/AS/AB	-		•	•	•		•			√	√	✓	~	✓
Wall mounted	Stylish Wall mounted unit	FTXA-AW/ BS/BB/BT			•	•	•	•	•			✓	✓	✓	~	✓
	Perfera Wall mounted unit	CTXM-R/ FTXM-R		RXYS(C)Q only	•	•	•	•	•	•	•	✓	✓	✓	~	✓
Ceiling suspended	Ceiling suspended unit	FHA-A(9)					•		•	•	•			✓		
	Perfera Floor standing unit	FVXM-A	The state of the s		•	•	•		•			/	✓	✓	~	✓
Floor standing	Floor standing unit	C/FVXM-F	65555525			•	•		•			~	✓	✓	~	✓
	Concealed floor standing unit	FNA-A9				•	•		•	•				✓		

Decoration panel BYCQ140DG9 or BYCQ140DGF9 + BRC1E* or BRC1H* needed

Hydrobox range

Capacity class (kW)

Туре	Product name	Model	80	125	200	Leaving water temperature range
Low temperature hydrobox	HXY-A8	For high efficiency space heating and cooling > Ideal for hot or cold water in underfloor, air handling units, low temperature radiators > Hot/cold water from 5° to 45°C > Large operation range (down to -20°C and up to 43°C) > Fully integrated water-side components save time on system design > Space saving contemporary wall hung design	•	•		5 °C - 45 °C
High temperature hydrobox	HXHD-A8	For efficient hot water production and space heating > Ideal for hot water in bathrooms, sinks and for underfloor heating, radiators, air handling units, > Hot water from 25 to 80°C > "Free" heating and hot water through heat recovery > Uses heat pump technology to produce hot water efficiently, providing up to 17% savings compared to a gas boiler > Possibility to connect thermal solar collectors		•	•	25 °C - 80 °C

 $^{^{\}scriptscriptstyle 2}$ To connect stylish indoor units a BPMKS unit is needed

³ A mix of RA indoor units and VRV indoor units is not allowed.

⁴ Only in heat pump operation

Benefits overview **JRV IV**

Home leave operation Maintains the indoor temperature at your specified comfort level during absence, thus saving energy Fan only The unit can be used as fan, blowing air without heating or cooling The filter automatically cleans itself. Simplicity of upkeep means optimum energy efficiency and maximum comforts without the need for expensive or time-consuming maintenance The presence sensor directs the air away from any person detected in the room, when the air flow control is on. The sensor detects the average floor temperature and ensures an even temperature distribution between ceiling and When starting to warm up or when the thermostat is off, the air discharge direction is set horizontally and the fallow speed, to prevent draught. After warming up, air discharge and fan speed are set as desired Draught prevention Whisper quiet Draught prevention When starting to warm up or when the thermostat is off, the air discharge direction is set horizontally and the fallow speed, to prevent draught. After warming up, air discharge and fan speed are set as desired Daikin indoor units are whisper quiet. Also the outdoor units are guaranteed not to disturb the quiet of the neightbourhood Auto cooling-heating changeover Automatically selects cooling or heating mode to achieve the set temperature Air filter Removes airborne dust particles to ensure a steady supply of clean air Allows humidity levels to be reduced without variations in room temperature	ort
Auto cleaning filter The filter automatically cleans itself. Simplicity of upkeep means optimum energy efficiency and maximum coming maintenance The presence sensor directs the air away from any person detected in the room, when the air flow control is on. The sensor detects the average floor temperature and ensures an even temperature distribution between ceiling and When starting to warm up or when the thermostat is off, the air discharge direction is set horizontally and the fallow speed, to prevent draught. After warming up, air discharge and fan speed are set as desired Daikin indoor units are whisper quiet. Also the outdoor units are guaranteed not to disturb the quiet of the neightbourhood Auto cooling-heating changeover Automatically selects cooling or heating mode to achieve the set temperature Removes airborne dust particles to ensure a steady supply of clean air	ort
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Draught prevention When starting to warm up or when the thermostat is off, the air discharge direction is set horizontally and the fallow speed, to prevent draught. After warming up, air discharge and fan speed are set as desired Daikin indoor units are whisper quiet. Also the outdoor units are guaranteed not to disturb the quiet of the neightbourhood Auto cooling-heating changeover Automatically selects cooling or heating mode to achieve the set temperature Removes airborne dust particles to ensure a steady supply of clean air	
Draught prevention low speed, to prevent draught. After warming up, air discharge and fan speed are set as desired	
Whisper quiet Daikin indoor units are whisper quiet. Also the outdoor units are guaranteed not to disturb the quiet of the neighbourhood Auto cooling-heating changeover Automatically selects cooling or heating mode to achieve the set temperature Air filter Removes airborne dust particles to ensure a steady supply of clean air	n to
Auto cooling-heating changeover Automatically selects cooling or heating mode to achieve the set temperature Air filter Removes airborne dust particles to ensure a steady supply of clean air	
Dry programme Allows humidity levels to be reduced without variations in room temperature	
Dry programme Allows humidity levels to be reduced without variations in room temperature	
Ceiling soiling prevention Prevents air from blowing out too long in horizontal position, to prevent ceiling stains	
Vertical auto swing Possibility to select automatic vertical moving of the air discharge flaps for efficient air and temperature distributhroughout the room	ion
Vertical auto swing throughout the room Fan speed steps Allows to select up to the given number of fan speed	
Individual flap control Individual flap control via the wired remote controller enables you to easily fix the position of each flap individual flap control to suit any new room configuration. Optional closure kits are available as well	lually,
Weekly timer Can be set to start heating or cooling anytime on a daily or weekly basis	
Infrared remote control Starts, stops and regulates the air conditioner from a distance Wired remote control Starts, stops and regulates the air conditioner Centralised control Starts, stops and regulates several air conditioners from one central point	
Wired remote control Starts, stops and regulates the air conditioner	
Multi zoning Allows up to 6 individual climate zones with one indoor unit	
Auto-restart The unit restarts automatically at the original settings after power failure	
Self-diagnosis Simplifies maintenance by indicating system faults or operating anomalies	
Self-diagnosis Simplifies maintenance by indicating system faults or operating anomalies Drain pump kit Facilitates condensation draining from the indoor unit	
Multi tenant The indoor unit's main power supply can be turned off when leaving the hotel or office building	

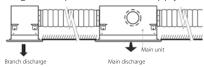
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		FXZQ-A	FXCQ-A	FXKQ-MA	FXDQ-A3	FXSQ-A	FXMQ-P7	FXMQ-MB	FXAQ-A	FXHQ-A	FXUQ-A	FXNQ-A	FXLQ-P
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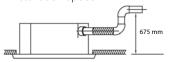
Round flow cassette

360° air discharge for optimum efficiency and comfort

- > Optional automatic filter cleaning panel results in higher efficiency & comfort and lower maintenance costs.
- > Two optional intelligent sensors improve energy efficiency and comfort
- > Widest choice ever in decoration panels: designer panels in white (RAL9010) and black (RAL9005) and standard panels in white (RAL9010) with grey louvers or full white
- > Bigger flaps and unique swing pattern improve equal air distribution
- > Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- > Lowest installation height in the market: 214mm for class 20-63
- > Optional fresh air intake
- > Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms



> Standard drain pump with 675mm lift increases flexibility and installation speed













White panel

White auto cleaning panel

Black panel

Black design panel

More details and final information can be found by scanning or clicking the QR codes.





Indoor Unit				FXFQ	20B	25B	32B	40B	50B	63B	80B	100B	125B
Cooling capacity	Total capacity	At high fa	an speed	kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00
Heating capacity	Total capacity	At high fa	an speed	kW	2.50	3.20	4.00	5.00	6.30	8.00	10.0	12.5	16.0
Power input - 50Hz	Cooling	At high fa	an speed	kW		0.017		0.018	0.023	0.028	0.045	0.071	0.103
	Heating	At high fa	an speed	kW		0.017		0.018	0.023	0.028	0.045	0.071	0.103
Dimensions	Unit	HeightxV	WidthxDepth	mm			204x8	40x840			246x8	10x840	288x840x840
Weight	Unit			kg		18.0		19.0	2	1.0	24	1.0	26.0
Casing	Material							Galva	anised steel	plate			
Decoration panel	Model				Standar		to cleaning	hite with gro panels: BYCO panels: BYCQ	Q140EGF - w	hite / BYCQ	140EGFB - b	lack	EB - black
	Dimensions	HeightxV	WidthxDepth	mm	Standard	d panels: 65	x950x950/	Auto cleanir	ng panels: 1	48x950x950	/ Designer	panels: 106	x950x950
	Weight			kg		Stand	lard panels:	5.5 / Auto cl	eaning pan	els: 10.3 / De	esigner pan	els: 6.5	
Fan	Air flow rate -	Cooling	At high/medium/ low fan speed	m³/min		12.8/10.7/8.9	9	14.8/12.6/10.4	15.1/12.9/10.7	16.6/13.4/10.7	23.3/19.2/13.5	27.8/20.4/13.0	31.6/26.0/19.8
	50Hz	Heating	At high/medium/ low fan speed	m³/min		12.8/10.7/8.9	9	14.8/12.6/10.4	15.1/12.9/10.7	16.6/13.4/10.7	22.5/18.5/13.0	27.8/20.4/13.0	30.3/24.9/18.9
Air filter	Туре								Resin net				
Sound power level	Cooling	At high fa	an speed	dBA		49.0		51	1.0	53.0	55.0	60.0	61.0
Sound pressure	Cooling	At high/m	nedium/low fan speed	dBA	:	31.0/29.0/28.	.0	33.0/31	1.0/29.0	35.0/33.0/30.0	38.0/34.0/30.0	43.0/37.0/30.0	45.0/41.0/36.0
level	Heating	At high/m	nedium/low fan speed	dBA	:	31.0/29.0/28.	.0	33.0/31	1.0/29.0	35.0/33.0/30.0	38.0/34.0/30.0	43.0/37.0/30.0	45.0/41.0/36.0
Refrigerant	Type/GWI	Р						R	-410A/2,087	7.5			
Piping connections	Liquid	OD		mm			6.35				9.	52	
	Gas	OD		mm			12.7				15	5.9	
	Drain							VP25	(O.D. 32 / I.	D. 25)			
Power supply	Phase/Fre	quency/V	/oltage	Hz/V				1~/50	0/60/220-24	0/220			
Control systems	Infrared re	emote cor	ntrol				BRC7FA53	2F / BRC7FB5	32F / BRC7I	A532FB / BF	RC7FB532FB		
	Wired ren	note contr	rol				BRC1H52W/	S/K / BRC1E5	3A / BRC1E5	3B / BRC1E5	3C / BRC1D5	2	

Fully flat cassette

Unique design in the market that integrates fully flat into the ceiling

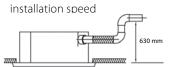
- Fully flat integration in standard architectural ceiling tiles, leaving only 8mm
- Remarkable blend of iconic design and engineering excellence with an elegant finish in white or a combination of silver and white
- > Two optional intelligent sensors improve energy efficiency and comfort
- > 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- > Individual flap control: flexibility to suit every room layout without changing the location of the unit!



> Optional fresh air intake



> Standard drain pump with 630mm lift increases flexibility and installation speed



More details and final information can be found by scanning or clicking the QR codes.





Indoor Unit				FXZQ	15A	20A	25A	32A	40A	50A			
Cooling capacity	Total capacity	At high fa	n speed	kW	1.70	2.20	2.80	3.60	4.50	5.60			
Heating capacity	Total capacity	At high fa	n speed	kW	1.90	2.50	3.20	4.00	5.00	6.30			
Power input - 50Hz	Cooling	At high fa	in speed	kW	0.0	018	0.020	0.019	0.029	0.048			
	Heating	At high fa	in speed	kW	0.0	018	0.020	0.019	0.029	0.048			
Dimensions	Unit	HeightxV	VidthxDepth	mm			260x5	75x575					
Weight	Unit			kg		15.5		16	.5	18.5			
Casing	Material						Galvanised	steel plate					
Decoration panel	Model						BYFQ60	C2W1W					
	Colour						White	(N9.5)					
	Dimensions	HeightxV	VidthxDepth	mm			46x62	0x620					
	Weight			kg			2	.8					
Decoration panel 2	Model						BYFQ6	OC2W1S					
	Colour						SIL	VER					
	Dimensions	HeightxV	VidthxDepth	mm			46x62	0x620					
	Weight			kg			2	.8					
Decoration panel 3	Model						BYFQ6	0B2W1					
	Colour			White (RAL9010)									
	Dimensions	HeightxV	VidthxDepth	mm			55x70	0x700					
	Weight			kg			2	.7					
Decoration panel 4	Model						BYFQ6	0B3W1					
	Colour						WHITE (I	RAL9010)					
	Dimensions	HeightxV	VidthxDepth	mm			55x70	0x700					
	Weight			kg			2	.7					
Fan	rate -	Cooling	At high/medium/ low fan speed		8.5/7.00/6.5	8.7/7.50/6.5	9.0/8.00/6.5	10.0/8.50/7.0	11.5/9.50/8.0	14.5/12.5/10.0			
	50Hz	Heating	At high/medium/ low fan speed	m³/min	8.5/7.0/6.5	8.7/7.5/6.5	9.0/8.0/6.5	10.0/8.5/7.0	11.5/9.5/8.0	14.5/12.5/10.0			
Air filter	Туре						Resi	n net					
Sound power level	Cooling	At high fa	an speed	dBA	4	19	50	51	54	60			
Sound pressure	Cooling	At high/m	edium/low fan speed	dBA	31.5/28.0/25.5	32.0/29.5/25.5	33.0/30.0/25.5	33.5/30.0/26.0	37.0/32.0/28.0	43.0/40.0/33.0			
level	Heating	At high/m	edium/low fan speed	dBA	31.5/28.0/25.5	32.0/29.5/25.5	33.0/30.0/25.5	33.5/30.0/26.0	37.0/32.0/28.0	43.0/40.0/33.0			
Refrigerant	Type/GWF)			R-410A/2,087.5								
Piping connections	Liquid	OD		mm			6.	35					
	Gas	OD		mm			12	2.7					
	Drain						VP20 (I.D.	20/O.D. 26)					
Power supply	Phase/Fre	quency/V	oltage	Hz/V			1~/50/60/2	20-240/220					
Current - 50Hz	Maximum	fuse amp	s (MFA)	Α			1	6					
Control systems	Infrared re	mote con	itrol		BRC7E	B530W (standard	panel) / BRC7F530)W (white panel) /	BRC7F530S (grey	panel)			
Control systems	Wired rem	ote contr	ol		BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52								

2-way blow ceiling mounted cassette

Thin, lightweight design installs easily in narrow corridors

- > Depth of all units is 620mm, ideal for narrow spaces
- > Individual flap control: flexibility to suit every room layout without changing the location of the unit!



- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible
- > Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required

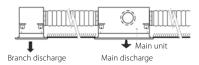
Fresh air intake opening in casing



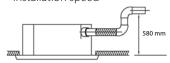
- * Brings in up to 10% of fresh air into the room
- > Optimum comfort guaranteed with automatic air flow adjustment to the required load
- > Maintenance operations can be performed by removing the front panel



> Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms



> Standard drain pump with 580mm lift increases flexibility and installation speed



More details and final information can be found by scanning or clicking the QR codes.





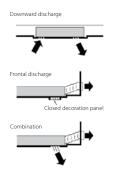
Indoor Unit				FXCQ	20A	25A	32A	40A	50A	63A	80A	125A
Cooling capacity	Total capacity	At high fa	n speed	kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0
Heating capacity	Total capacity	At high fa	n speed	kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0
Power input - 50Hz	Cooling	At high fa	n speed	kW	0.031	0.0	039	0.041	0.059	0.063	0.090	0.149
	Heating	At high fa	n speed	kW	0.028	0.0	035	0.037	0.056	0.060	0.086	0.146
Dimensions	Unit	HeightxW	/idthxDepth	mm		305x7	75x620		305x9	90x620	305x1,4	145x620
Weight	Unit			kg		1	19		22	25	33	38
Casing	Material							Galvanised	steel plate			
Decoration panel	Model					BYBCC	240HW1		BYBCC)63HW1	BYBCQ	125HW1
	Colour							Fresh white	(6.5Y 9.5/0.5)			
	Dimensions	s HeightxW	/idthxDepth	mm		55x1,0	70x700		55x1,2	85x700	55x1,7	40x700
	Weight			kg		1	10		•	11	1	3
Fan	Air flow rate - 50Hz	Cooling	At high/medium/ low fan speed	m³/min	10.5/9/7.5	11.5/	9.5/8	12/10.5/8.5	15/13/10.5	16/14/11.5	26/22.5/18.5	32/27.5/22.5
Air filter	Туре				ĺ		Re	sin net with i	mold resistar	nce		
Sound power level	Cooling		n speed / At medium / At low fan speed	dBA	48/46/44	50/47/45	50/48/46	52/49/47	53/51/47	55/53/48	58/54/49	62/58/54
Sound pressure level	Cooling		n speed / At medium / At low fan speed	dBA	32.0/30.0/28.0	34.0/31.0/29.0	34.0/32.0/30.0	36.0/33.0/31.0	37.0/35.0/31.0	39.0/37.0/32.0	42.0/38.0/33.0	46.0/42.0/38.0
	Heating		speed / At medium / At low fan speed	dBA	32.0/30.0/28.0	34.0/31.0/29.0	34.0/32.0/30.0	36.0/33.0/31.0	37.0/35.0/31.0	39.0/37.0/32.0	42.0/38.0/33.0	46.0/42.0/38.0
Refrigerant	Type/GW	P	·		Ì			R-410A	/2,087.5			
Piping connections	Liquid	OD		mm			6.35				9.52	
	Gas	OD		mm	ĺ		12.7				15.9	
	Drain				Ì			VP25 (O.D.	32 / I.D. 25)			
Power supply	Phase/Fre	equency/Vo	oltage	Hz/V				1~/50 /2	220-240			
Current - 50Hz	Maximun	n fuse amps	s (MFA)	Α	A 16							
Control systems	Infrared r	emote con	trol					BRC	7C52			
	Wired rer	note contro	ol			BRC	1H52W/S/K/	BRC1E53A / B	RC1E53B / BR	C1E53C / BRC	1D52	

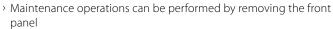
Contains fluorinated greenhouse gases

Ceiling mounted corner cassette

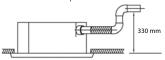
1-way blow unit for corner installation

- > Compact dimensions, can easily be mounted in a narrow ceiling void (only 220mm ceiling space required, 195 with panel spacer, available as accessory)
- Optimum air flow conditions are created by either downward air discharge or frontal air discharge (via optional grille) or a combination of both











More details and final information can be found by scanning or clicking the QR codes.



Indoor Unit			FXKQ	25MA	32MA	40MA	63MA			
Cooling capacity	Total capacity	At high fan speed	kW	2.8	3.6	4.5	7.10			
Heating capacity	Total capacity	At high fan speed	kW	3.2	4.0	5.0	8.00			
Power input - 50Hz	Cooling	At high fan speed	kW	0.0	166	0.076	0.105			
	Heating	At high fan speed	kW	0.0	46	0.056	0.085			
Dimensions	Unit	HeightxWidthxDepth	mm		215x1,110x710		215x1,310x710			
Weight	Unit		kg		31		34			
Casing	Material				Galvanised	l steel plate				
Decoration panel	Model				BYK45FJW1		BYK71FJW1			
	Colour				WI	nite				
	Dimensions	HeightxWidthxDepth	mm		70x1,240x800		70x1,440x800			
	Weight		kg		8.5		9.5			
Fan	Air flow rate - 50Hz	Cooling At high fan spe		11	/9	13/10	18/15			
Air filter	Type				Resin net with	mold resistance				
Sound power level	Cooling	At high fan speed/ At low fan speed	dBA	54,	/49	56/50	58/53			
Sound pressure level	Cooling	At high fan speed/ At low fan speed	dBA	38.0	/33.0	40.0/34.0	42.0/37.0			
Refrigerant	Type/GW	P			R-410A	/2,087.5				
Piping connections	Liquid	OD	mm		6.4		9.5			
	Gas	OD	mm		12.7		15.9			
	Drain				VP25 (O.D.	32 / I.D. 25)				
Power supply	Phase/Fre	quency/Voltage	Hz/V		1~/50/60/2	20-240/220				
Current - 50Hz	Maximun	n fuse amps (MFA)	Α		1	15				
Control systems	Infrared r	emote control			BRC	4C61				
	Wired ren	note control		BRC	1H52W/S/K / BRC1E53A / B	RC1E53B / BRC1E53C / BRC	C1D52			



The multi-zoning system is a room-by-room controller. It is fitted with motorised dampers, which immediately adapt using Daikin ducted solutions. This system supports control of up to 8 zones via a centralised thermostat located in the main room and individual thermostats for each of the zones.

Benefits

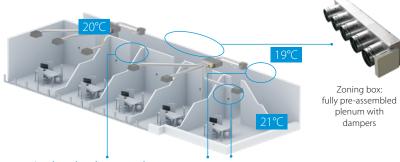
Increased comfort

- > Increases comfort levels by allowing more individual zone control
 - Up to 8 individual zones can be served thanks to separate modulating dampers
 - Individual thermostat for room-by-room or zone-by-zone control

Easy to install

- Automatic air flow adjustment according to the demand
- > Easy to install, integrates with the Daikin indoor units and system controls
- Time saving as plenum comes fully pre-assembled with dampers, and control boards
- > Reduces the amount of refrigerant required in the installation

How does it work?



Individual zone thermostats

Blueface - Airzone Main Thermostat

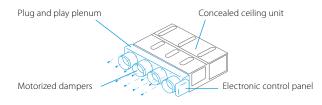
 Color graphic interface for controlling zones

Airzone Zone Thermostat

 Graphic interface with low-energy e-ink screen for controlling zones

Airzone Zone Thermostat

 Thermostat with buttons for controlling the temperature





AZCE6BLUEZEROCB (Wired)



AZCE6THINKCB (Wired) AZCE6THINKRB (Wireless)



AZCE6LITECB (Wired)
AZCE6LITERB (Wireless)

Compa	ti	bility						,	S	k	//	lir	-													ij	1	₹	ij	7						
					FDX	M-F	9			FB	A-A	(9)			A	DE	A-A			F	KDQ	-A3								F	FXSC)-A				
Numbe motorised damp		Reference	Dimensions H x W x D (mm)	25	35	50	60	35	50	60	71	100	125	140	71	100	125	15	20	25	32	40	50	63	15	20	25	32	40	50	63	71	80	100	125	140
	2	AZEZ6DAIST07XS2	300 x 930 x 454																						•	•	•	•								
	2	AZEZ6DAIST07S2	300 X 930 X 434					•	•																				•	•						
		AZEZ6DAIST07XS3	200 - 020 - 454																						•	•	•	•								
	3	AZEZ6DAIST07S3	300 x 930 x 454					•	•																				•	•						
		AZEZ6DAIST07S4	300 x 930 x 454	İ				•	•						İ			İ											•	•						
Construct Calling	4	AZEZ6DAIST07M4	300 x 1,140 x 454							•	•				•																•		•			
Standard Ceiling Void		AZEZ6DAIST07M5								•	•				•																•		•			
void	5	AZEZ6DAIST07L5	300 x 1,425 x 454									•	•	•		•	•	П																•	•	
		AZEZ6DAIST07M6								•	•				•																•		•			
C. C.	6	AZEZ6DAIST07L6	300 x 1,638 x 454									•	•	•		•	•																	•	•	
		AZEZ6DAIST07L7										•	•	•		•	•													П				•	•	
	7	AZEZ6DAIST07XL7	515 x 1,425 x 454																																	•
		AZEZ6DAIST07L8															•													П				•	•	
	8	AZEZ6DAIST07XL8	515 x 1,425 x 454																											П						•
Compact Ceiling	2	AZEZ6DAISL01S2	210 x 720 x 444	•	•			П										•	•	•	•									П						
Void	3	AZEZ6DAISL01S3	210 x 720 x 444	•	•										İ			•	•	•	•															
O TOTAL STREET	4	AZEZ6DAISL01M4	210 x 930 x 444													\vdash						•	•							П						
The state of the s	5	AZEZ6DAISL01L5	210 x 1,140 x 444			•	•																	•												





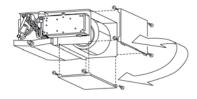
Slim concealed ceiling unit

Slim design for flexible installation

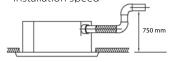
Compact dimensions, can easily be mounted in a ceiling void of only 240mm



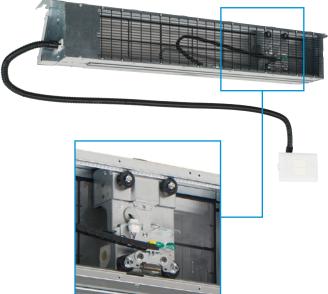
- Medium external static pressure up to 44Pa facilitates unit use with flexible ducts of varying lengths
- > Discretely concealed in the wall: only the suction and discharge grilles are visible
- > 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- Auto cleaning filter option ensures maximum efficiency, comfort and reliability by regular filter cleaning
- > Multi zoning kit allows multiple individually-controlled climate zones to be served by one indoor unit
- > Flexible installation, as the air suction direction can be altered from rear to bottom suction



 Standard drain pump with 600mm lift increases flexibility and installation speed







Auto cleaning filter option

More details and final information can be found by scanning or clicking the QR codes.





Indoor Unit				FXDQ	15A3	20A3	25A3	32A3	40A3	50A3	63A3		
Cooling capacity	Total capacity	At high fa	an speed	kW	1.70	2.20	2.80	3.60	4.50	5.60	7.10		
Heating capacity	Total capacity	At high fa	an speed	kW	1.90	2.50	3.20	4.00	5.00	6.30	8.00		
Power input - 50Hz	Cooling	At high fa	an speed	kW		0.036		0.041	0.042	0.053	0.062		
	Heating	At high fa	an speed	kW		0.036		0.041	0.042	0.053	0.062		
Required ceiling vo	id >			mm				240					
Dimensions	Unit	HeightxV	VidthxDepth	mm		200x7	50x620		200x9	50x620	200x1,150x620		
Weight	Unit			kg		22	2.0		26	5.0	29.0		
Casing	Material						(Galvanised stee	el				
Fan	Air flow rate - 50Hz	Cooling	At high/medium/ low fan speed	m³/min	7.5/7.00/6.4		8.0/7.20/6.4		10.5/9.50/8.5	12.5/11.0/10.0	16.5/14.5/13.0		
	External static pressure - 50Hz		et / High	Pa		10/	30.0			15/44.0			
Air filter	Type						Rer	novable/wash	able				
Sound power level	Cooling	At high fa	an speed	dBA	50		51		52	53	54		
Sound pressure level	Cooling	At high/m	edium/low fan speed	l dBA	32.0/31.0/27.0		33.0/31.0/27.0		34.0/32.0/28.0	35.0/33.0/29.0	36.0/34.0/30.0		
Refrigerant	Type/GWI	Р						R-410A/2,087.5					
Piping connections	Liquid	OD		mm			6.	35			9.52		
	Gas	OD		mm			12	2.7			15.9		
	Drain						VP	20 (I.D. 20/O.D.	26)				
Power supply	Phase/Fre	quency/V	oltage	Hz/V			1~/	50/60/220-240/	220				
Current - 50Hz	Maximum	n fuse amp	s (MFA)	Α				16					
Control systems	Infrared re	emote cor	itrol				BF	C4C65 / BRC4C	.66				
	Wired ren	note contr	ol			BRC1H5	52W/S/K / BRC1E	53A / BRC1E53	B / BRC1E53C / E	BRC1D52			

Concealed ceiling unit with medium ESP

Slimmest yet most powerful medium static pressure unit on the market

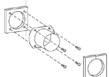
> Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge



- > Quiet operation: down to 25dBA sound pressure level
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- > Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- > Discretely concealed in the wall: only the suction and discharge grilles are visible
- 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- > Multi zoning kit allows multiple individually-controlled climate zones to be served by one indoor unit
- Optional fresh air intake
 Fresh air intake opening in casing



Optional fresh air intake kit



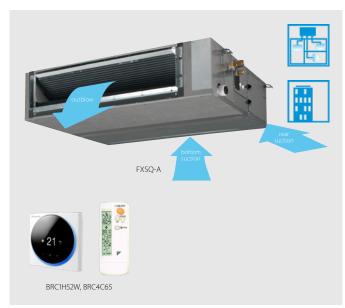
* Brings in up to 10% of fresh air into the room

* Allow larger quantities of fresh air to be brought in

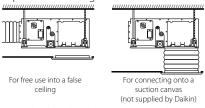
More details and final information can be found by scanning or clicking the QR codes.



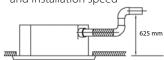




> Flexible installation: air suction direction can be altered from rear to bottom suction and choice between free use or connection to optional suction grilles



 Standard built-in drain pump with 625mm lift increases flexibility and installation speed

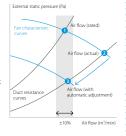


Automatic Airflow Adjustment function

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within $\pm 10\%$

Why

After installation the real ducting will frequently differ from the initially calculated air flow resistance * the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model), making installation

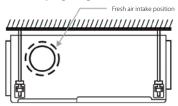


Indoor Unit			FXSQ	15A	20A	25A	32A	40A	50A	63A	80A	100A	125A	140A
Cooling capacity	Total capacity	At high fan speed	kW	1.70	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00	16.00
Heating capacity	Total capacity	At high fan speed	kW	1.90	2.50	3.20	4.00	5.00	6.30	8.00	10.0	12.5	16.0	18.0
Power input - 50Hz	Cooling	At high fan speed	kW		0.041		0.045	0.087	0.089	0.101	0.135	0.173	0.237	0.247
	Heating	At high fan speed	kW		0.041		0.045	0.087	0.089	0.101	0.135	0.173	0.237	0.247
Dimensions	Unit	HeightxWidthxDepth	mm		245x5	50x800		245x70	008x00	245x1,0	00x800	245x1,4	00x800	245x1,550x800
Weight	Unit		kg		23.5		24.0	28.5	29.0	35.5	36.5	46.0	47.0	51.0
Casing	Material							Galvai	nised stee	el plate				
Fan	Air flow	Cooling At high/medium/low far	speed m³/min	8.7/7.50/6.5	9.0/7.	50/6.5	9.5/8.00/7.0	15.0/12.5/11.0	15.2/12.5/11.0	21.0/18.0/15.0	23.0/19.5/16.0	32.0/27.0/23.0	36.0/31.5/26.0	39.0/34.0/28.0
	rate - 50Hz	Heating At high/medium/low fa	speed m³/min	8.7/7.5/6.5	9.0/7	7.5/6.5	9.5/8.0/7.0	15.0/12.5/11.0	15.2/12.5/11.0	21.0/18.0/15.0	23.0/19.5/16.0	32.0/27.0/23.0	36.0/31.5/26.0	39.0/34.0/28.0
	External static pressure - 50Hz	Factory set / High	Pa				30/150				40/	150	50/	/150
Air filter	Туре								Resin ne	t				
Sound power level	Cooling	At high fan speed	dBA		54		55	6	0	59	6	i1	6	54
Sound pressure	Cooling	At high/medium/low fan s	peed dBA	29.5/28.0/25.0	30.0/28	3.0/25.0	31.0/29.0/26.0	35.0/32	2.0/29.0	33.0/30.0/27.0	35.0/32.0/29.0	36.0/34.0/31.0	39.0/36.0/33.0	41.5/38.0/34.0
level	Heating	At high/medium/low fan s	peed dBA	31.5/29.0/26.0	32.0/29	9.0/26.0	33.0/30.0/27.0	37.0/34	.0/29.0	35.0/32.0/28.0	37.0/34.0/30.0	37.0/34.0/31.0	40.0/37.0/33.0	42.0/38.5/34.0
Refrigerant	Type/GWF							R-	410A/2,08	37.5				
Piping connections	Liquid/Gas	OD	mm			6.3	5/12.7					9.52/15.9		
	Drain						VP20 (I.	.D. 20/O.D). 26), drai	n height 6	525 mm			
Power supply	Phase/Fre	quency/Voltage	Hz/V					1~/50/	60/220-2	40/220				
Current - 50Hz	Maximum	fuse amps (MFA)	Α						16					
Control systems	Infrared re	emote control							BRC4C65	i				
	Wired rem	note control				BRC1	H52W/S/K /	BRC1E53	A / BRC1E	53B / BRC	1E53C / BR	C1D52		

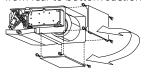
Concealed ceiling unit with high ESP

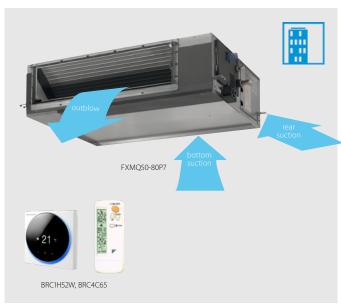
Ideal for large sized spaces FXMQ-P7: ESP up to 200 Pa

- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- High external static pressure up to 200Pa facilitates extensive duct and grille network
- > Discretely concealed in the wall: only the suction and discharge grilles are visible
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required Fresh air intake opening in casing

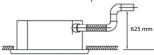


- * Brings in up to 10% of fresh air into the room
- > Flexible installation, as the air suction direction can be altered from rear to bottom suction





 Standard built-in drain pump with 625mm lift increases flexibility and installation speed



FXMQ-MB: ESP up to 270 Pa

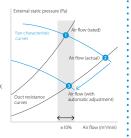
- > High external static pressure up to 270Pa facilitates extensive duct and grille network
- > Large capacity unit: up to 31.5 kW heating capacity

Automatic Airflow Adjustment function

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within $\pm 10\%$

Why

After installation the real ducting will frequently differ from the initially calculated air flow resistance * the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature
Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model), making installation much faster



More details and final information can be found by scanning or clicking the QR codes.



FXMO-P





Indoor Unit			FXMQ	50P7	63P7	80P7	100P7	125P7	200MB	250MB
Cooling capacity	Total capacity	y At high fan speed	kW			-			22.4	28.0
	Nom.		kW	5.6	7.1	9.0	11.2	14.0	-	
Heating capacity	Total capacity	y At high fan speed	kW			-			25.0	31.5
	Nom.		kW	6.3	8.0	10.0	12.5	16.0	-	
Power input - 50Hz	Cooling	At high fan speed	kW	0.110	0.120	0.171	0.176	0.241	0.895	1.185
	Heating	At high fan speed	kW	0.098	0.108	0.159	0.164	0.229	0.895	1.185
Required ceiling vo	id >		mm			350			-	
Dimensions	Unit	HeightxWidthxDepth	mm		300x1,000x700)	300x1,4	00x700	470x1,38	30x1,100
Weight	Unit		kg		35		4	6	13	2
Fan	Air flow	Cooling At high/medium/low fan spee	m³/min	18.0/16.5/15.0	19.5/17.8/16.0	25.0/22.5/20.0	32.0/27.5/23.0	39.0/33.5/28.0	58/54.0/50	72/67.0/62
	rate - 50Hz	Heating At high/medium/low fan spee	m³/min	18.0/16.5/15.0	19.5/17.8/16.0	25.0/22.5/20.0	32.0/27.5/23.0	39.0/33.5/28.0	-/-	/-
	External static pressure - 50Hz	Factory set / High	Pa			100/200			160/270	170/270
Air filter	Type					Resin net			-	
Sound power level	Cooling	At high/medium/low fan speed	d dBA	61.0/-/-	64.0/-/-	67.0/-/-	65.0/-/-	70.0/-/-	76/7	5/73
Sound pressure	Cooling	At high/medium/low fan speed	d dBA	41.0/39.0/37.0	42.0/40.0/38.0	43.0/41	.0/39.0	44.0/42.0/40.0	48/-	·/45
level	Heating	At high/medium/low fan speed	d dBA	41.0/39.0/37.0	42.0/40.0/38.0	43.0/41	.0/39.0	44.0/42.0/40.0	-/-	-/-
Refrigerant	Type/GW	P				R-410A/-			R-410A	2,087.5
Piping connections	Liquid	OD	mm	6.35			9.	52		
	Gas	OD	mm	12.7		15	i.9		19.1	22.2
	Drain				VP	25 (I.D. 25/O.D.	32)		PS	1B
Power supply	Phase/Fre	equency/Voltage	Hz/V		1~/50/6	50/220-240/220	+/-10%		1~/50 /2	20-240
Current - 50Hz	Maximun	n fuse amps (MFA)	Α							
Control systems	Infrared r	emote control					BRC4C65			
	Wired rer	note control			BRC1I	H52W/S/K/BRC1	E53A/BRC1E53E	3/BRC1E53C/BR	C1D52	



Wall mounted unit

For rooms with no false ceilings nor free floor space

- > Flat, stylish front panel blends easily within any interior décor and is easier to clean
- > Can easily be installed in both new and refurbishment projects
- > The air is comfortably spread up- and downwards thanks to 5 different discharge angles that can be programmed via the remote control
- > Maintenance operations can be performed easily from the front of the unit



More details and final information can be found by scanning or clicking the QR codes.



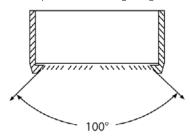
Indoor Unit				FXAQ	15A	20A	25A	32A	40A	50A	63A
Cooling capacity	Total capacity	At high fa	an speed	kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	Total capacity	At high fa	an speed	kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0
Power input - 50Hz	Cooling	At high fa	an speed	kW	0.	02	0.	03	0.02	0.03	0.05
	Heating	At high fa	an speed	kW		0.03		0.04	0.02	0.04	0.06
Dimensions	Unit	HeightxV	VidthxDepth	mm		290x7	95x266			290x1,050x269	
Weight	Unit			kg		1	12			15	
Fan	Air flow rate - 50Hz	Cooling	At high fan s At low fan s	speed/ m³/min beed	8.4/7.0	9.1/7.0	9.4/7.0	9.8/7.0	12.2/9.7	14.4/11.5	18.3/13.5
Air filter	Туре						W	ashable resin r	net		
Sound power level	Cooling	At high fa	an speed	dBA	51.0	52.0	53.0	5	5.0	58.0	63.0
Sound pressure level	Cooling	At high fa At low fa	an speed/ n speed	dBA	32.0/28.5	33.0/28.5	35.0/28.5	37.5/28.5	37.0/33.5	41.0/35.5	46.5/38.5
	Heating	At high fa At low fa	an speed/ n speed	dBA	33.0/28.5	34.0/28.5	36.0/28.5	38.5/28.5	38.0/33.5	42.0/35.5	47.0/38.5
Refrigerant	Type/GWI	Р						R-410A/2,087.5	5		
Piping connections	Liquid	OD		mm			6	.35			9.52
	Gas	OD		mm			12	2.7			15.9
	Drain						VI	P13 (I.D. 15/O.D.	18)		
Power supply	Phase/Fre	equency/V	'oltage	Hz/V	1~/50 /220-240						
Current - 50Hz	Maximum	n fuse amp	s (MFA)	Α				16			
Control systems	ntrol systems Infrared remote control						BRC	7EA628 / BRC7E	A629		
	Infrared remote control Wired remote control					BRC1H5	52W/S/K / BRC1I	53A / BRC1E53	B / BRC1E53C / E	3RC1D52	

Contains fluorinated greenhouse gases

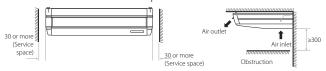
Ceiling suspended unit

For wide rooms with no false ceilings nor free floor space

> Ideal for comfortable air flow in wide rooms thanks to Coanda effect: up to 100° discharge angle



- > Even rooms with ceilings up to 3.8m can be heated up or cooled down very easily without capacity loss
- > Can easily be installed in both new and refurbishment projects
- Can easily be mounted in corners and narrow spaces, as it only needs 30mm lateral service space



 Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required Fresh air intake opening in casing



- * Brings in up to 10% of fresh air into the room
- > Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible



More details and final information can be found by scanning or clicking the QR codes.





Indoor Unit			FXHQ	32A	63A	100A			
Cooling capacity	Total capacity	At high fan speed	kW	3.6	7.1	11.2			
Heating capacity	Total capacity	At high fan speed	kW	4.0	8.0	12.5			
Power input - 50Hz	Cooling	At high fan speed	kW	0.107	0.111	0.237			
	Heating	At high fan speed	kW	0.107	0.111	0.237			
Dimensions	Unit	HeightxWidthxDe	epth mm	235x960x690	235x1,270x690	235x1,590x690			
Weight	Unit		kg	24	33	39			
Casing	Material				Resin				
Fan	Air flow rate -		/medium/ m³/min speed	14.0/12.0/10.0	20.0/17.0/14.0	29.5/24.0/19.0			
	50Hz	Heating At high low far	/medium/ m³/min speed	14.0/12.0/10.0	20.0/17.0/14.0	29.5/24.0/19.0			
Air filter	Туре				Resin net with mold resistance				
Sound power level	Cooling	At high/medium/lo	w fan speed dBA	54/52/49	55/53/52	62/55/52			
Sound pressure	Cooling	At high/medium/lo	w fan speed dBA	36.0/34.0/31.0	37.0/35.0/34.0	44.0/37.0/34.0			
level	Heating	At high/medium/lo	w fan speed dBA	36.0/34.0/31.0	37.0/35.0/34.0	44.0/37.0/34.0			
Refrigerant	Type/GW	P			R-410A/2,087.5				
Piping connections	Liquid	OD	mm	6.4	9.	5			
	Gas	OD	mm	12.7	15.	9			
	Drain				VP20 (I.D. 20/O.D. 26)				
Power supply	Phase/Fre	equency/Voltage	Hz/V	Hz/V 1~/50/60/220-240/220					
Current - 50Hz	Maximun	n fuse amps (MFA)	Α		16				
Control systems	Infrared r	emote control			BRC7C58				
÷	Wired rer	note control		BRC1H52W	V/S/K / BRC1E53A / BRC1E53B / BRC1E53	C / BRC1D52			

Contains fluorinated greenhouse gases

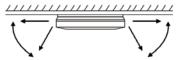
4-way blow ceiling suspended unit

Unique Daikin unit for high rooms with no false ceilings nor free floor space

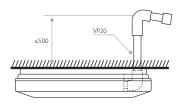
- Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily without capacity loss
- > Can easily be installed in both new and refurbishment projects
- > Individual flap control: flexibility to suit every room layout without changing the location of the unit!



- > Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible
- > Optimum comfort guaranteed with automatic air flow adjustment to the required load
- > 5 different discharge angles between 0 and 60° can be programmed via the remote control



> Standard drain pump with 720mm lift increases flexibility and installation speed



More details and final information can be found by scanning or clicking the QR codes.



FXUQ-A

BRC1H52W, BRC7C58



Indoor Unit			FXUQ	71A	100A
Cooling capacity	Total capacity	At high fan speed	kW	8.0	11.2
Heating capacity	Total capacity	At high fan speed	kW	9.0	12.5
Power input - 50Hz	Cooling	At high fan speed	kW	0.090	0.200
	Heating	At high fan speed	kW	0.073	0.179
Dimensions	Unit	HeightxWidthxDepth	mm	198x95	0x950
Weight	Unit		kg	26	27
Casing	Material			Res	sin
Fan	Air flow rate -	Cooling At high/medium low fan speed	/ m³/min	22.5/19.5/16.0	31.0/26.0/21.0
	50Hz	Heating At high/medium low fan speed	/ m³/min	22.5/19.5/16.0	31.0/26.0/21.0
Air filter	Туре			Resin net with r	nold resistance
Sound power level	Cooling	At high/medium/low fan spec	ed dBA	58/56/54	65/62/58
Sound pressure	Cooling	At high/medium/low fan spee	ed dBA	40.0/38.0/36.0	47.0/44.0/40.0
level	Heating	At high/medium/low fan spee	ed dBA	40.0/38.0/36.0	47.0/44.0/40.0
Refrigerant	Type/GW	P		R-410A/	72,087.5
Piping connections	Liquid	OD	mm	9.	5
	Gas	OD	mm	15	9
	Drain			I.D. 20/0	O.D. 26
Power supply	Phase/Fre	equency/Voltage	Hz/V	1~/50/60/220	-240/220-230
Current - 50Hz	Maximun	n fuse amps (MFA)	Α	16	5
Control systems	Infrared r	emote control		BRC7	C58
	Wired rer	note control		BRC1H52W/S/K / BRC1E53A / BF	RC1E53B / BRC1E53C / BRC1D52

Concealed floor standing unit

Designed to be concealed in walls

- > Discretely concealed in the wall: only the suction and discharge grilles are visible
- > Requires very little installation space as the depth is only 200mm



- > Its low height (620 mm) enables the unit to fit perfectly beneath a window
- > High ESP allows flexible installation



More details and final information can be found by scanning or clicking the QR codes.



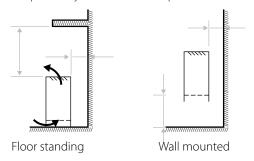
Indoor Unit				FXNQ	20A	25A	32A	40A	50A	63A
Cooling capacity	Total capacity	At high fa	an speed	kW	2.20	2.80	3.60	4.50	5.60	7.10
Heating capacity	Total capacity	At high fa	an speed	kW	2.50	3.20	4.00	5.00	6.30	8.00
Power input - 50Hz	Cooling	At high fa	an speed	kW		0.071		0.078	0.099	0.110
	Heating	At high fa	an speed	kW		0.068		0.075	0.096	0.107
Dimensions	Unit	HeightxV	VidthxDepth	mm		620/720x790x200		620/720>	(990x200	620/720x1,190x200
Weight	Unit			kg		23.5		27	7.5	32.0
Casing	Material						Galvanised	steel plate		
Fan	Air flow rate -	Cooling	At high/medium/ low fan speed	m³/min		8.0/7.20/6.4		10.5/9.50/8.5	12.5/11.0/10.0	16.5/14.5/13.0
	50Hz	Heating	At high/medium/ low fan speed	m³/min		8.0/7.2/6.4		10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0
	External stati pressure - 50Hz	c Factory s	et / High	Pa	10,	/41.0	10/42.0	15/52.0	15/59.0	15/55.0
Air filter	Type						Resi	n net		
Sound power level	Cooling	At high fa	an speed	dBA		51		52	53	54
Sound pressure	Cooling	At high/m	edium/low fan speed	dBA		30.0/28.5/27.0		32.0/30.0/28.0	33.0/31.0/29.0	35.0/33.0/32.0
level	Heating	At high/m	edium/low fan speed	dBA		30.0/28.5/27.0		32.0/30.0/28.0	33.0/31.0/29.0	35.0/33.0/32.0
Refrigerant	Type/GW	P					R-410A	/2,087.5		
Piping connections	Liquid	OD		mm			6.35			9.52
	Gas	OD		mm			12.7			15.9
	Drain						VP20 (I.D.	20/O.D. 26)		
Power supply	Phase/Fre	equency/V	oltage	Hz/V			1~/50/60/2	20-240/220		
Current - 50Hz	Maximun	n fuse amp	s (MFA)	Α			1	6		
Control systems	Infrared r	emote con	ntrol				BRC	4C65		
	Wired rer	note contr	ol			BRC1H52W/S	/K / BRC1E53A / B	RC1E53B / BRC1E5	3C / BRC1D52	

Contains fluorinated greenhouse gases

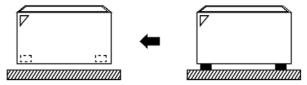
Floor standing unit

For perimeter zone air conditioning

- > Unit can be installed as free standing model by use of optional back plate
- > Its low height enables the unit to fit perfectly beneath a window
- > Stylish modern casing finished in pure white (RAL9010) and iron grey (RAL7012) blends easily with any interior
- > Requires very little installation space



> Wall mounted installation facilitates cleaning beneath the unit where dust tends to accumulate



> Wired remote control can easily be integrated in the unit



More details and final information can be found by scanning or clicking the QR codes.



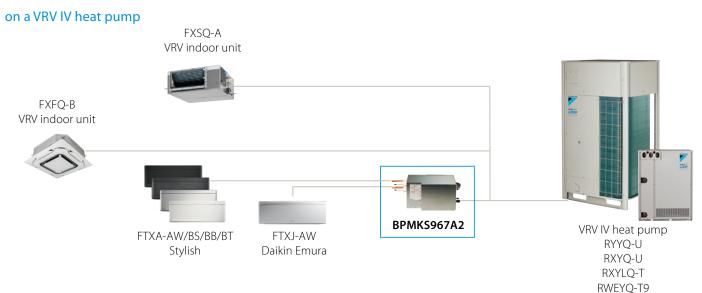


Indoor Unit			FXLQ	20P	25P	32P	40P	50P	63P		
Cooling capacity	Total capacity	At high fan speed	kW	2.2	2.8	3.6	4.5	5.6	7.1		
Heating capacity	Total capacity	At high fan speed	kW	2.5	3.2	4.0	5.0	6.3	8.0		
Power input - 50Hz	Cooling	At high fan speed	kW	0	.05	0.	09	0).11		
	Heating	At high fan speed	kW	0	.05	0.	09	0).11		
Dimensions	Unit	HeightxWidthxDepth	mm	600x1,	000x232	600x1,1	140x232	600x1,	420x232		
Weight	Unit		kg	2	27	3	32	3	38		
Fan	Air flow rate - 50H	Cooling At high fan spe z At low fan spee		7/	6.0	8/6.0	11/8.5	14/11.0	16/12.0		
Air filter	Type					Resi	Resin net				
Sound power level	Cooling	At high fan speed	dBA		54		57	58	59		
Sound pressure level	Cooling	At high fan speed/ At low fan speed	dBA		35/32		38/33	39/34	40/35		
	Heating	At high fan speed/ At low fan speed	dBA		35/32		38/33	39/34	40/35		
Refrigerant	Type/GW	P				R-410A	/2,087.5				
Piping connections	Liquid	OD	mm			6.	.35				
	Gas	OD	mm			12.7			15.9		
	Drain					O.D. 21 (Vin	yl chloride)				
Power supply	Phase/Fre	equency/Voltage	Hz/V	/V 1~/50/60/220-240/220							
Current - 50Hz	Maximun	n fuse amps (MFA)	Α			1	15				
Control systems	Infrared r	emote control				BRC	4C65				
	Wired rer	note control			BRC1H52W/	S/K / BRC1E53A / B	RC1E53B / BRC1E5	3C / BRC1D52			

VRV heatpump combined with

stylish indoor units

Combine VRV indoor units with stylish indoor units



Connect <u>only</u> stylish indoor units to VRV IV S-series or VRV IV W-series outdoor units



^{*} Special order unit, contact your local sales representative for more information

BPMKS967A

Branch provider

To connect Split and Sky Air indoor units to VRV outdoor units



Branch provider			BPMKS967A2	FBPMKS967A2
Connectable indoor units		1~2	1~3	
Max. indoor unit connectable capacity				
Max. connectable combination				
Dimensions	Height x Width x Depth	mm	180x294x350	
Weight		kg		

DAIKIN

Wall mounted unit

Design that speaks for itself

- > Remarkable blend of iconic design and engineering excellence with an elegant finish in matt crystal white, silver and black
- The Coanda effect optimises the airflow for a comfortable climate.
 By using specially designed flaps, a more focused airflow allows a better temperature distribution throughout the whole room
- > The intelligent thermal sensor determines the current room temperature and distributes air evenly throughout the room before switching to an airflow pattern that directs warm or cool air to areas that need it
- > Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air
- > Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc.
- Onecta app: control your indoor from any location with an app, via your local network or internet
- > Whisper quiet in operation: the operating of the unit can hardly be heard. The sound pressure level goes down to 19dBA!















Indoor unit				FTXJ	20AW/S/B	25AW/S/B	35AW/S/B	42AW/S/B	50AW/S/B	
Dimensions	Unit	HeightxV	WidthxDepth	mm		305x900x212				
Weight	Unit		kg			12				
Air filter	Type				Removable / washable					
Fan	Air flow rate	Cooling	Silent operation/ Low/Medium/High	m³/min	4.6/6.0/8.4/11.0	4.6/6.0/8.6/11.4	4.6/6.0/8.6/11.8	4.6/7.2/9.5/13	5.2/7.6/10.4/13.5	
		Heating	Silent operation/ Low/Medium/High	m³/min	4.6/6.4/8.7/11.1	4.6/6.4/9.0/11.3	4.6/6.4/9.0/11.7	5.2/7.7/10.5/14.4	5.7/8.2/11.1/15.0	
Sound power level	Cooling			dBA	57	57	60	60	60	
	Heating			dBA	-	-	-	-	-	
Sound pressure level	Cooling	Silent op	eration/Low/High	dBA	19/25/39	19/25/40	19/25/41	21/29/45	24/31/46	
	Heating	Silent op	eration/Low/High	dBA	19/25/39	19/25/40	19/25/41	21/29/45	24/33/46	
Control systems	Infrared i	remote cor	ntrol				ARC488A1W/S/K			

^{* +2} dBA in Multi combination

stylish

Wall mounted unit

Most compact design wall mounted unit

- > A compact and functional design suitable for all interiors in a white, black, silver and blackwood coloured elegant finish
- > The Coanda effect optimises the airflow for a comfortable climate. By using specially designed flaps, a more focused airflow allows a better temperature distribution throughout the whole room
- > The intelligent thermal sensor determines the current room temperature and distributes air evenly throughout the room before switching to an airflow pattern that directs warm or cool air to areas that need it



- Onecta app: control your indoor from any location with an app, via your local network or internet
- > Powerful air purification increases indoor air quality with Daikin Flash Streamer technology
- > Practically inaudible: the unit runs so quietly, you will almost forget it is there.



















Indoor unit			FTXA	CTXA15 AW/BS/BT/BB	20AW/BS/BT/BB	25AW/BS/BT/BB	35AW/BS/BT/BB	42AW/BS/BT/BB	50AW/BS/BT/BB			
Dimensions	Unit	HeightxWidthxDepth	mm	295x798x189								
Weight	Unit		kg			1	2					
Air filter	Туре					Removable	/ washable					
Fan	Air flow rate	Cooling Silent operation/ Low/Medium/ High	m³/min	4.6 / 6.1 / 8.2 / 11.0	4.6/6.1/8 /11.0	4.6/6.1/9 /11.5	4.6/6.1/9 /11.9	4.6/7.2/10 /13.1	5.2/7.6/10 /13.5			
		Heating Silent operation/ Low/Medium/ High	m³/min	4.5/6.4/	8.7 /10.9	4.5/6.4/9.0 /11.1	4.5/6.4/9.0 /11.5	5.2/7.7/10.5 /14.6	5.7/8.2/11.1 /15.1			
Sound power level	Cooling	-	dBA		57			60				
Sound pressure	Cooling	Silent operation/Low/High	dBA	19/2	5/39	19/25/40	19/25/41	21/29/45	24/31/46			
level	Heating	Silent operation/Low/High	dBA	19/2	5/39	19/25/40	19/25/41	21/29/45	24/31/46 24/33/46			
Control systems	ns Infrared remote control ARC466A58											
·	Wired remote control				BRC073							

perfero

Wall mounted unit

Attractive, wall mounted design with perfect indoor air quality

- Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air
- > Silver allergen removal and air purifying filter captures allergens such as pollen to ensure a steady supply of clean air
- > Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc
- Onecta app: control your indoor from any location with an app, via your local network or internet.
- > Quiet operation: down to 19dBA sound pressure level
- 3-D air flow combines vertical and horizontal auto swing to circulate a stream of warm or cool air right to the corners of even large spaces
- 2-area motion detection sensor: air flow is sent to a zone other than where the person is located at that moment; if no people are detected, the unit will automatically switch over to the energy-efficient setting. (larger capacity area)











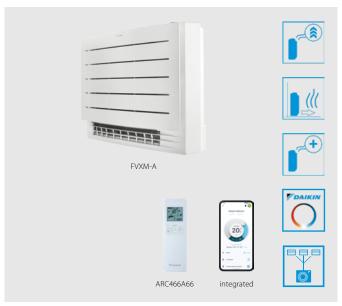
Indoor unit				FTXM	CTXM15R	20R	25R	35R	42R	50R	60R	71R
Dimensions	Unit	HeightxV	WidthxDepth	mm			295x778x272				299x998x292	2
Weight	Unit			kg			10.0				14.5	
Air filter	Type							Removable	e/washable			
Fan	Air flow rate	Cooling	Silent operation/ Low/Medium/High	m³/min	4.3/5.7/	7.5/10.5	4.1/5.7/7.6/10.5	4.2/6.0/7.8/11.3	4.3/6.5/9.0/11.9	8.3/11.4/14/15.8	9.1/11.8/14/16.7	10.0/12.2/15/16.9
		Heating	Silent operation/ Low/Medium/High	m³/min	5.1/6.2/	8.2/9.3	4.9/6.3/8.0/9.8	4.9/6.5/8.5/9.8	4.9/6.5/9.7/12.4	10.5/12.0/14.2/15.8	11.1/12.4/15.2/16.5	11.6/12.7/15.8/17.7
Sound power level	Cooling			dBA		57		58	60	58.0	60	0.0
	Heating			dBA		į	54		60	58.0	59.0	61.0
Sound pressure	Cooling	Silent op	eration/Low/High	dBA		19/25/41		19/29/45	21/30/45	27.0/36.0/44.0	30.0/37.0/46.0	32.0/38.0/47.0
level	Heating	Silent op	eration/Low/High	dBA	20/2	6/39	20/27/39	20/28/39	21/29/45	31.0/34.0/43.0	33.0/36.0/45.0	34.0/37.0/46.0
Control systems	Infrared r	emote cor	ntrol					ARC4	66A67			

Floor standing unit

Design floor standing unit for optimal heating comfort thanks to unique heating features

- Seasonal efficiency values up to A++ in heating, resulting in low running costs compared to gas boilers and electric heating
- > Excellent contemporary design
- > Heat boost quickly heats up your home when starting up your air conditioner. Set temperature is reached 14% faster than a regular air conditioner (pair only)
- > The floor warming function optimises convection by distributing hot air from the bottom of the unit
- > The heat plus function provides 30 minutes cosy heating by simulating radiant heat
- > Dual air discharge flow for better air distribution
- > Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air
- > Onecta app: control your indoor from any location with an app, via your local network or internet.





- > Quiet operation: down to 19dBA sound pressure level
- > Combinable with 2 and 3 port multi outdoor units (except 2-3MXM68)









Indoor unit				FVXM	CVXM20A	25A	35A	50A	
Dimensions	Unit	HeightxV	VidthxDepth	mm	600x750x238				
Weight	Unit			kg	17				
Air filter	Туре				Removable / washable				
Fan	Air flow rate	Cooling Silent operation/ m³/min Low/Medium/High		4.1/4.9	9/7/8.7	4.1/4.9/7/9.2	5.4/6.6/9/11.6		
		Heating	Silent operation/ Low/Medium/High	m³/min	4.1/5.6/7.2/9.2		4.1/5.6/7.2/9.8	5.9/8.4/10.0/12.8	
Sound power level	Cooling			dBA	52	2.0	53.0	61.0	
	Heating			dBA	52	2.0	53.0	62.0	
Sound pressure	Cooling	Silent op	eration/Low/High	dBA	22.0/25.0/38.0	20.0/25.0/38.0	20.0/25.0/39.0	27.0/31.0/44.0	
level	Heating	Silent op	eration/Low/High	dBA	21.0/25.0/38.0	19.0/25.0/38.0	19.0/25.0/39.0	29.0/35.0/46.0	
Control systems	Infrared r	d remote control				ARC466A66			

Floor standing unit

Floor standing unit for optimal heating comfort thanks to dual airflow

- > Its low height enables the unit to fit perfectly beneath a window
- > Can be installed against a wall or recessed
- > Vertical auto swing moves the discharge flaps up and down for efficient air and temperature distribution throughout the room
- Onecta app (optional): control your indoor from any location with an app, via your local network or internet





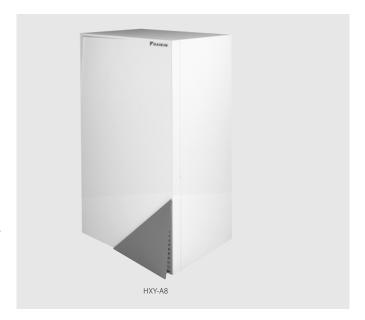


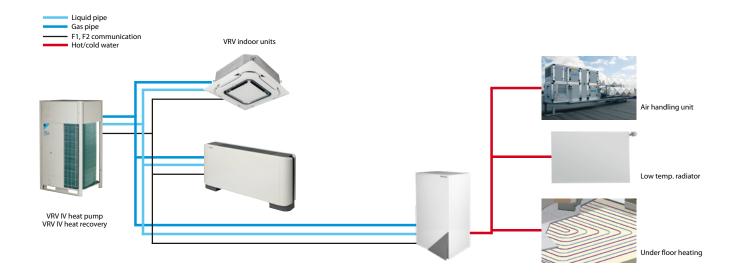
Indoor unit				FVXM	25F	35F	50F	
Dimensions	Unit	HeightxW	/idthxDepth	mm		600x700x210		
Weight	Unit	kg		kg	14			
Air filter	Туре					Removable / washable		
Fan	Air flow rate	Cooling	Silent operation/ Low/Medium/High	m³/min	4.1/4.8/6.5 /8.2	4.5/4.9/6.7 /8.5	6.6/7.8/8.9 /10.1	
		Heating	Silent operation/ Low/Medium/High	m³/min	4.4/5.0/6.9 /8.8	4.7/5.2/7.3 /9.4	7.1/8.5/10.1 /11.8	
Sound power level	Cooling			dBA	5	2	57	
	Heating			dBA	5	2	58	
Sound pressure	Cooling	Silent ope	eration/Low/High	dBA	23/26/38	24/27/39	32/36/44	
level	Heating	Silent ope	eration/Low/High	dBA	23/26/38	24/27/39	32/36/45	
Control systems Infrared remote control			ARC452A1					
•	Wired remot	e control				-		
Power supply	Phase/Frequ	ency/Volta	age	Hz/V	1~/50/220-230-240			

Low temperature hydrobox for VRV

For high efficiency space heating and cooling

- > Air to water connection to VRV for applications such as underfloor, air handling units, low temperature radiators, ...
- > Leaving water temperature range from 5°C to 45°C without electric heater
- Super wide operating range for hot/cold water production from -20 to +43°C ambient outdoor temperature
- Saves time on system design as all water-side components are fully integrated with direct control over leaving water temperature
- > Space saving contemporary wall mounted design
- > No gas connection or oil tank needed
- > Connectable to VRV IV heat pump and heat recovery





More details and final information can be found by scanning or clicking the QR codes.





Indoor Unit			HXY	080A8	125A8		
Cooling capacity	Nom.		kW	8.0 (1)	12.5 (1)		
Heating capacity	Nom.		kW	9.00 (2)	14.00 (2)		
Casing	Colour			White			
	Material			Precoated sheet metal			
Dimensions	Unit	HeightxWidthxDepth	mm	890 x48	30 x344		
Weight	Unit		kg	44	.0		
Operation range	Heating	Ambient Min.~Max.	°C	-20 ~24			
		Water side Min.~Max.	°C	25 ·	~45		
	Cooling	Cooling Ambient Min.~Max.		10 ~43			
		Water side Min.~Max.	°C	5~20			
Refrigerant	Type			R-410A			
	GWP			2,0	37.5		
Sound pressure leve	l Nom.		dBA	3	1		
Refrigerant circuit	Gas side	diameter	mm	15.9			
	Liquid sid	de diameter	mm	9.5			
Water circuit	Piping connections diameter inch		inch	G 1"1/4 (female)			
Power supply	Phase / Frequency / Voltage Hz / V		Hz/V	1~/50/220-240			
Current	Recomm	ended fuses	A	6~16			

(1)Tamb 35°C - LWE 18°C (DT=5°C) | (2) DB/WB 7°C/6°C - LWC 35°C (DT=5°C) | Contains fluorinated greenhouse gases

High temperature hydrobox for VRV

For efficient hot water production and space heating

- Air to water connection to VRV for applications such as bathrooms, sinks, underfloor heating, radiators and air handling units
- > Leaving water temperature range from 25 to 80°C without electric heater
- » "Free" heating and hot water production provided by transferring heat from areas requiring cooling to areas requiring heating or hot water
- > Uses heat pump technology to produce hot water efficiently, providing up to 17% savings compared to a gas boiler
- Possibility to connect thermal solar collectors to the domestic hot water tank
- Super wide operating range for hot water production from -20 to +43°C ambient outdoor temperature
- > Saves time on system design as all water-side components are fully integrated with direct control over leaving water temperature
- Various control possibilities with weather dependant set point or thermostat control
- The indoor unit and domestic hot water tank can be stacked to save space, or installed next to each other, if only limited height is available
- > No gas connection or oil tank needed
- > Connectable to VRV IV heat recovery







Indoor Unit		HXHD	125A8	200A8		
Heating capacity	Nom.	kW	14.0	22.4		
Casing	Colour		Metal	lic grey		
	Material		Precoated	sheet metal		
Dimensions	Unit HeightxWidthxDepth	mm	705x600x695			
Weight	Unit	kg	92.0	147		
Operation range	Heating Ambient Min.~Max.	°C	-20.0 ~2	20 (3) / 20		
	Water side Min.~Max.	°C	25 ~80.0			
	Domestic Ambient Min.~Max.	°CDB	-20.0 ~43.0			
	hot water Water side Min.~Max.	°C	45 ~75			
Refrigerant	Type / GWP	İ	R-134	a / 1,430		
	Charge	kg	2.00	2.60		
Sound power level	Nom.	dBA	55.0 (1)	60.0 (1)		
Sound pressure	Nom.	dBA	42.0 (1) / 43.0 (2)	46.0 (1) / 46.0 (2)		
level	Night quiet Level 1 mode	dBA	38 (1)	45 (1)		
Water circuit	Piping connections diameter	inch	G 1" (1	emale)		
	Heating Water volume Max. ~ Min. water system	I	200 ~ 20	400 ~ 20		
Power supply	Phase / Frequency / Voltage	Hz/V	1~ / 50 / 220-240	3~/50/380-415		
Current	Recommended fuses	Α	20	16		

EKHWP-B

Domestic hot water tank

Plastic domestic hot water tank with solar support

- > Tank designed for connection with drainback thermal solar system
- > Available in 300 and 500 liters
- > Large hot water storage tank to provide domestic hot water at any time
- > Heat loss is reduced to a minimum thanks to the high quality insulation
- Space heating support possible (500l tank only)







Accessory		EI	KHWP	300B	500B		
Casing	Colour			Traffic white (RAL9016) / Dark grey (RAL7011)		
	Material			Impact resistant	polypropylene		
Dimensions	Unit	Height	mm	1,650	1,660		
		Width	mm	595	790		
		Depth	mm	615	790		
Weight	Unit	Empty	kg	58	82		
Tank Tank	Water volui	me	1	294	477		
	Material			Polypro	opylen		
		water temperature	°C	8			
	Insulation		kWh/24h	1.5	1.7		
		ciency class			В		
	Standing h		W	64	72		
	Storage vol	lume	- 1	294	477		
leat exchanger	Domestic	Quantity		1			
	hot water	Tube material		Stainless stee			
		Face area	m ²	5.600	5.800		
		Internal coil volume		27.1	28.1		
		Operating pressure	bar	6			
		Average specific thermal output	W/K	2,790	2,825		
	Charging	Quantity		1			
		Tube material		Stainless stee	l (DIN 1.4404)		
		Face area	m ²	3	4		
		Internal coil volume		13	18		
		Operating pressure	bar	3	,		
		Average specific thermal output	W/K	1,300	1,800		
	Auxiliary	Tube material		-	Stainless steel (DIN 1.4404)		
	solar	Face area	m ²	-	1		
	heating	Internal coil volume	- 1	-	4		
	cating	Operating pressure	bar	-	3		
		Average specific thermal output	W/K	-	280		

Contains fluorinated greenhouse gases

EKHWP-PB

Domestic hot water tank

Pressureless domestic hot water tank with solar support

- > Tank designed for connection with pressurised thermal solar system
- > Available in 300 and 500 liters
- > Large hot water storage tank to provide domestic hot water at any time
- > Heat loss is reduced to a minimum thanks to the high quality insulation
- Space heating support possible (500l tank only)







Accessory		E	KHWP	300PB	500PB		
Casing	Colour				i) / Dark grey (RAL7011)		
J	Material				t polypropylene		
Dimensions	Unit	Height	mm	1,650	1,660		
		Width	mm	595	790		
		Depth	mm	615	790		
Weight	Unit	Empty	kg	58	89		
Tank	Water volur	ne	Ĭ	294	477		
	Material			Polypr	opylen		
	Maximum v	vater temperature	°C	3	35		
	Insulation	Heat loss	kWh/24h	1.5	1.7		
	Energy effic				В		
	Standing he	eat loss	W	64	72		
	Storage vol	ume	- 1	294	477		
Heat exchanger	Domestic	Quantity			1		
	hot water	Tube material		Stainless stee	el (DIN 1.4404)		
		Face area	m ²	5.600	5.900		
		Internal coil volume	1	27.1	28.1		
		Operating pressure	bar		6		
		Average specific thermal output	W/K	2,790	2,825		
	Charging	Quantity			1		
		Tube material		Stainless stee	el (DIN 1.4404)		
		Face area	m ²	3	4		
		Internal coil volume	1	13	18		
		Operating pressure	bar				
		Average specific thermal output	W/K	1,300	1,800		
	Pressurised sola	r Average specific thermal output	W/K	390.00	840.00		
	Auxiliary	Tube material		-	Stainless steel (DIN 1.4404)		
	solar	Face area	m ²	-	1		
	heating	Internal coil volume	- 1	-	4		
	neating	Operating pressure	bar	-	3		
		Average specific thermal output	W/K	-	280		

EKS(V/H)-P

Solar collector

Thermal solar collector for hot water production

- Solar collectors can produce up to 70% of the energy needed for hot water production - a major cost saving
- Horizontal and vertical solar collector for domestic hot water production
- > High efficiency collectors transfer all the short-wave solar radiation into heat as a result of their highly selective coating
- > Easy to install on roof tiles

More details and final information can be found by scanning or clicking the QR codes.









Accessory	EK	SV/EKSH	21P	26P			
Mounting			Vert	tical	Horizontal		
Dimensions	Unit HeightxWidthxDept	h mm	1,006x8	5x2,000	2,000x85x1,300		
Weight	Unit	kg	33	42			
Volume		Ī	1.3	1.7	2.1		
Surface	Outer	m ²	2.01	2.60			
	Aperture	m ²	1.800	2.360)		
	Absorber	m ²	1.79	2.35			
Coating			Micro-therm (absorption max. 96%, Emission ca. 5% +/-2%)				
Absorber			Harp-shaped copper pipe reg	gister with laser-welded highly selecti	ive coated aluminium plate		
Glazing			Single	e pane safety glass, transmission +/- 9	92%		
Allowed roof angle	Min.~Max.	0		15~80			
Operating pressure	e Max.	bar		6			
Stand still temperature	Max.	°C	192				
Thermal	collector efficiency (ηcol)	%		61			
performance	Zero loss collector efficiency η0	%	0.781	0.784	ŀ		
	Heat loss coefficient a1	W/m².K	4.240	4.250)		
	Temperature dependence of the heat loss coefficient a	2 W/m ² .K ²	0.006	0.007	7		
	Thermal capacity	kJ/K	4.9	6.5			
Auxiliary	Solpump	W		-			
•	Solstandby	W		-			
	Annual auxiliary electricity consumption Qaux	kWh		-			

Contains fluorinated greenhouse gases

EKSRDS2A/EKSRPS4A

Pump station

- Save energy and reduce CO₂ emissions with a solar system for domestic hot water production
- > Pump station connectable to unpressurised solar system
- Pump station and control provide the transfer of solar heat to the domestic hot water tank







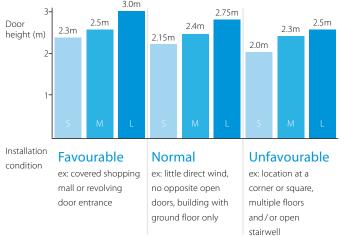




Accessory	EKSRPS4	IA/EKSRDS2A	EKSRPS4A	EKSRDS2A	
Mounting			On side of tank	On wall	
Dimensions	Unit HeightxWidthx	Depth mm	815x142x230	410x314x154	
Weight	Unit	kg	6.4	6	
Operation range	Ambient temperature Min.~Max.	°C	5~40	0~40	
Operating pressure	e Max.	bar	-	6	
Stand still temperature	Max.	°C	85	120	
Thermal performance	collector efficiency (ηcol)	%		-	
·	Zero loss collector efficiency η0	%		-	
Control	Туре		Digital temperature difference of	controller with plain text display	
	Power consumption	W	2	5	
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/230	/50/230	
Sensor	Solar panel temperature sensor		Pt1000		
	Storage tank sensor		PTC	-	
	Return flow sensor		PTC	-	
	Feed temperature and flow senso	or	Voltage signal (3.5V DC)	-	
Power supply intak	Ke .		Indoo	or unit	
Auxiliary	Solpump	W	37.3	23	
	Solstandby	W	2.00	5.00	
	Annual auxiliary electricity consumption (Qaux kWh	92.1	89	

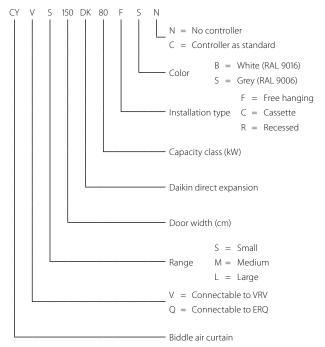
Biddle air curtains Biddle air curtains provide highly efficient solutions for retailers and consultants to combat the issue of climate separation across their outlet or office doorway.

Biddle air curtain portfolio



Туре	Product name	Features	
Biddle standard air curtain free hanging	CYV S/M/L-DK-F	- CYQ - Biddle air curtain for connection to ERQ - Connectable to ERQ heat pump - Cassette model (C): mounted	
Biddle standard air curtain cassette	CYV S/M/L-DK-C	into a false ceiling leaving only the decoration panel visible - Free-hanging model (F): easy wall mounted installation - Recessed model (R): neatly conceiled in the ceiling	
		A payback period of less than 1.5 years compared to installing an electric air curtain	
Biddle standard air curtain recessed	CYV S/M/L-DK-R	- Easy and quick to install at reduced costs since no additional water systems, boilers and gas connections are required	

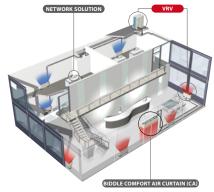
Biddle air curtain nomenclature



Biddle air curtain for VRV and Conveni-pack

- > Connectable to VRV heat recovery, heat pump and Conveni-pack
- > VRV is among the first DX systems suitable for connection to air curtains
- > Free-hanging model (F): easy wall mounted installation
- > Cassette model (C): mounted into a false ceiling leaving only the decoration panel visible
- > Recessed model (R): neatly concealed in the ceiling
- > A payback period of less then 1.5 years compared to installing an electric
- Provides virtually free air curtain heating via recovered heat from indoor units in cooling mode (in case of VRV heat recovery)
- Easy and quick to install at reduced costs since no additional water systems, boilers and gas connections are required
- > PATENTED TECHNOLOGY: Maximum energy efficiency stemming from almost zero down flow turbulence, optimised air flow and the application of advanced discharge rectifier technology
- Around 85% air separation efficiency, greatly reducing both heat loss and required indoor unit heating capacity





More details and final information can be found by scanning or clicking the QR codes.



Medium

					311	Iaii			INICO	ilulli	
	BIDDLE COMFORT	AIR CURTAIN (CA)		CYVS100DK80 *BC/*SC	CYVS150DK80 *BC/*SC	CYVS200DK100 *BC/*SC	CYVS250DK140 *BC/*SC	CYVM100DK80 *BC/*SC	CYVM150DK80 *BC/*SC	CYVM200DK100 *BC/*SC	CYVM250DK140 *BC/*SC
Heating capacity	Speed 3		kW	7.40	9.0	11.6	16.2	9.2	11.0	13.4	19.9
Power input	Fan only	Nom.	kW	0.23	0.35	0.46	0.58	0.37	0.56	0.75	0.94
	Heating	Nom.	kW	0.23	0.35	0.46	0.58	0.37	0.56	0.75	0.94
Delta T	Speed 3		K	19	1	5	16	17	14	13	15
Casing	Colour					I	BN: RAL9010 /	'SN: RAL9006	5		
Dimensions	Unit	Height F/C/R	mm		270/270/270						
		Width F/C/R	mm	1,000/1,000/1,048	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548	1,000/1,000/1,048	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548
		Depth F/C/R	mm				590/8	21/561			
Required ceiling vo	oid >		mm				42	20			
Door height	Max.		m	2.3 (1) / 2.15 (2) / 2.0 (3)	2.3 (1) / 2.15 (2) / 2.0 (3)	2.3 (1) / 2.15 (2) / 2.0 (3)	2.3 (1) / 2.15 (2) / 2.0 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)
Door width	Max.		m	1.0	1.5	2.0	2.5	1.0	1.5	2.0	2.5
Weight	Unit		kg	56	66	83	107	57	73	94	108
Fan-Air flow rate	Heating	Speed 3	m³/h	1,164	1,746	2,328	2,910	1,605	2,408	3,210	4,013
Sound pressure level	Heating	Speed 3	dBA	47	49	50	51	50	51	53	54
Refrigerant	Type / GWP						R-410A	/ 2,087.5			
Piping connections	Liquid/OD/Gas/O	D	mm		9.52/16.0		9.52/19.0		9.52/16.0		9.52/19.0
Required accessori	es (should be orde	red separately)			Daikin wire	ed remote co	ntrol (BRC1H5	1(9)W/S/K / B	RC1E53A/B/C	/ BRC1D52)	
Power supply	Voltage		٧				23	30			

Small

					La	rge	
				CYVL100DK125*BC/*SC		CYVL200DK250*BC/*SC	CYVL250DK250*BC/*SC
Heating capacity	Speed 3		kW	15.6	23.3	29.4	31.1
Power input	Fan only	Nom.	kW	0.75	1.13	1.50	1.88
	Heating	Nom.	kW	0.75	1.13	1.50	1.88
Delta T	Speed 3		K	1	5	14	12
Casing	Colour				BN: RAL9010	/ SN: RAL9006	
Dimensions	Unit	Height F/C/R	mm		370/3	70/370	
		Width F/C/R	mm	1,000/1,000/1,048	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548
		Depth F/C/R	mm		774/1,1	05/745	
Required ceiling vo	oid >		mm		5.	20	
Door height	Max.		m	3.0 (1) / 2.75 (2) / 2.5 (3)	3.0 (1) / 2.75 (2) / 2.5 (3)	3.0 (1) / 2.75 (2) / 2.5 (3)	3.0 (1) / 2.75 (2) / 2.5 (3)
Door width	Max.		m	1.0	1.5	2.0	2.5
Weight	Unit		kg	76	100	126	157
Fan-Air flow rate	Heating	Speed 3	m³/h	3,100	4,650	6,200	7,750
Sound pressure leve	Heating	Speed 3	dBA	53	54	56	57
Refrigerant	Type / GWP				R-410A	/ 2,087.5	
Piping connections	Liquid/OD/G	as/OD	mm	9.52/16.0	9.52/19.0	9.52	/22.0
Required accessor	ies (should be	ordered separately)		Daikin wire	ed remote control (BRC1H	51(9)W/S/K / BRC1E53A/B/C	/ BRC1D52)
Power supply	Voltage		V		2	30	

⁽¹⁾ Favorable conditions: covered shopping mall or revolving door entrance (2) Normal conditions: little direct wind, no opposite open doors, building with ground floor only

(3) Unfavorable conditions: location at a corner or square, multiple floors and/or open stairway





		VRV IV+ hea	at recovery
		REYQ8-20 REMQ5	2/3 module systems
	Multi-module connection kit (obligatory) - Connects multiple modules into a single refrigerant system		2 modules: BHFQ23P907 3 modules: BHFQ23P1357
s	Extended level difference kit - Allows outdoor unit to be more than 50m above indoor units	Special or	rder unit
Ĭ	Central drain pan kit - Installs onto the underside of the outdoor unit and collects drain water from all bottom plate outlets into a single outlet. In cold areas should be heated by a field-supplied heater to prevent drain water from freezing in the drain pan.		
	Heater tape kit - Optional electrical heater to guarantee trouble-free operation in extremely cold and humid climates (one per outdoor unit needed)	5/8-12: EKBPH012T7A 14-20: EKBPH020T7A	
	External control adapter for outdoor unit - Allows to activate Low Noise Operation and three levels of demand control, limiting power consumption via external dry contacts. Connects to the F1/F2 communication line and requires power supply from an indoor unit, BSVQ box, or VRV-WIII outdoor unit.	DTA104A For installation into an indoor unit: exact ad For 14-20 HP the demand PCB mouting plate is rec	apter type depends on type of indoor unit.
Adapters	KRC19-26 Mechanical cool/heat selector – allows to switch an entire Heat Pump system, or one BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the A-B-C terminals of the outdoor unit / BS-box.		
_	Cool/heat selector PCB (required to connect KRC19-26)		
	KKSB26B1* Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)		
	KJB111A Installation box for remote cool/heat selector KRC19-26		
	EKCHSC - Cool/heat selector cable		
	EKPCCAB4 VRV configurator		
ırs	KKSB26B1* Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.		
Othe	DTA109A51 DIII-net expander adapter		
	BPMKS967A2/A3 Branch provider (for connection of 2/3 RA indoor units)		
	EKDK04 Drain plug kit		
	EKLN140A Sound enclosure		

*Note: blue cells contain preliminary data

	"Note: Dide cells contain preliminary data			
			VRV	IV S-series
		RXYSCQ-TV1	RXYSQ4-6TV9	RXYSQ4-6TY9
	Multi-module connection kit (obligatory) - Connects multiple modules into a single refrigerant system			
	Extended level difference kit - Allows outdoor unit to be more than 50m above indoor units			
Kits	Central drain pan kit - Installs onto the underside of the outdoor unit and collects drain water from all bottom plate outlets into a single outlet. In cold areas should be heated by a field-supplied heater to prevent drain water from freezing in the drain pan.			
	Heater tape kit - Optional electrical heater to guarantee trouble-free operation in extremely cold and humid climates (one per outdoor unit needed)			
	External control adapter for outdoor unit - Allows to activate Low Noise Operation and three levels of demand control, limiting power consumption via external dry contacts. Connects to the F1/F2 communication line and requires power supply from an indoor unit, BSVQ box, or VRV-WIII outdoor unit.		DTA104A53/61/62 ndoor unit: exact adapter type depen ee Options & Accessories of indoor un	
Adapters	KRC19-26 Mechanical cool/heat selector – allows to switch an entire Heat Pump system, or one BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the A-B-C terminals of the outdoor unit / BS-box.		•	•
	Cool/heat selector PCB (Required to connect KRC19-26)		EBRP2B	
	KKSB26B1* Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)			
	KJB111A Installation box for remote cool/heat selector KRC19-26		•	•
	EKCHSC Cool/heat selector cable (Required to connect KRC19-26)			•
	EKPCCAB4 VRV configurator	•	•	•
Others	KKSB26B1* Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.			
	DTA109A51 DIII-net expander adapter			
	BPMKS967A2/A3 Branch provider (for connection of 2/3 RA indoor units)	•	•	•
	EKDK04 Drain plug kit		•	•

VR	V IV+ heat pump			VRV IV C	+series
RYYQ8-20 RYMQ8-20 RXYQ8-20	2/3 module sys	tems		RXYLQ RXMLQ	2/3 module systems
	2 modules: BHFQ2 3 modules: BHFQ2	22P1007 22P1517			2 modules: BHFQ22P1007 3 modules: BHFQ22P1517
	5 modules, bring.	221 1317			3 modules, or ii Q221 13 ii
8-12: EKBPH012T7A 14-20: EKBPH020T7A					
		DTA104A	A53/61/62		
	For installation into a For 14-20 HP the demand Po	n indoor unit: exact ac CB mouting plate is re	dapter type depends of quired. See Options &	on type of indoor unit. Accessories of indoor units	
•	1 kit per system	n		•	1 kit per system
BRP2A81	1 kit per system	1		BRP2A81	1 kit per system
(14-20)	1 kit per system	1		•	1 kit per system
•	1 kit per system	1		•	1 kit per system
•				•	
(14-20)					
•				•	
				i-series	
RXYSQ8-12TY1	RDXYQ5	RDX	YQ8	KXYQ RKXYQ5	RKXYQ8
	EKDPH1RDX	EKDP	HIRDX		
	For installation into a	n indoor unit: exact ac	A53/61/62 dapter type depends o sories of indoor units	on type of indoor unit.	
				•	•
					BRP2A81
				•	•
				•	•
•					•
•				•	
•				•	
				•	
•				•	





		VR	V IV-Q Heat Pump Replacement V	RV
		RQYQ 140P	RXYQQ8-20	2/3-module systems
	Multi-module connection kit (obligatory) Connects multiple modules into a single refrigerant system			2 modules: BHFQ22P1007 3 modules: BHFQ22P1517
Kits	Central drain pan kit - Installs onto the underside of the outdoor unit and collects drain water from all bottom plate outlets into a single outlet. In cold areas should be heated by a field-supplied heater to prevent drain water from freezing in the drain pan.	KWC26B160		
	Heater tape kit - Optional electrical heater to guarantee trouble-free operation in extremely cold and humid climates (one per outdoor unit needed)		8-12: EKBPH012T7A 14-20: EKBPH020T7A	
rs	External control adapter for outdoor unit - Allows to activate Low Noise Operation and three levels of demand control, limiting power consumption via external dry contacts. Connects to the F1/F2 communication line and requires power supply from an indoor unit*, BSVQ box, or VRV-WIII outdoor unit.	DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. For 14-20 HP the demand PCB mouting plate is required. See Options & Accessories of indoor units	For installation into an ii type depends on 1 For 14-20 HP the demand PC	A53/61/62 Idoor unit: exact adapter ype of indoor unit. B mouting plate is required. sories of indoor units
Adapters	KRC19-26 Mechanical cool/heat selector – allows to switch an entire Heat Pump system, or one BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the A-B-C terminals of the outdoor unit / BS-box.	•	•	1 kit per system
	BRP2A81 Cool/heat selector PCB (required to connect KRC19-26 to VRV IV outdoor)		•	1 kit per system
	KKSB26B1* Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)		(8-12)	1 kit per system
	KJB111A Installation box for remote cool/heat selector KRC19-26	•	•	1 kit per system
Others	EKPCCAB4 VRV configurator		•	
g	KKSB2B61* Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.		(8-12)	
	DTA109A51 DIII-net expander adapter			

⁽¹⁾ For installations with special requirements towards fire regulations, the insulation material can be replaced using kits EKHBFQ1 and EKHBFQ2. The kits contain insulation material that complies with ENI3501-1:B-53,dO and BS476-7 (class 1)

Refnets & branch selector boxes

			Refne	t Joints	
		Capacity index	Capacity index	Capacity index	Capacity index
		< 200	200 ≤ x < 290	290 ≤ x < 640	> 640
Refnets	Imperial-size connections for heat recovery pump (2-pipe)	For all R-410A VRV: KHRQ22M20T For all R-410A+R-32 VRV: KHRQ22M20TA	KHRQ22M29T9	KHRQ22M64T	KHRQ22M75T
Refi	Imperial-size connections for heat recovery pump (2-pipe) (1)	KHRQ23M20T	KHRQ23M29T9	KHRQ23M64T	KHRQ23M75T
	EKBSVQLNP Sound reduction kit (sound insulation)				
x) (only for ystem)	KHFP26A100C Closed pipe kit				
boxes (BS bo	Joint kit for branch selector (BS) boxes: To couple 2 BS box branches to connect larger capacity indoor units				
Options for Branch selector boxes (BS box) (only for connection with VRV heat recovery system)	Quiet kit				
Options for connect	K-KDU303KVE Drain pump kit				
	EKBSDCK Duct connection: To connect extraction of BSSV boxes in serial				

⁽¹⁾ For metric size connections, contact your local sales responsible

VPV III O Hoot Pos	overy Replacement VRV		VRV-W IV Water-cooled VRV	
VNV III-Q Heat Nec	overy neplacement vnv		Heat Pump application	Heat Recovery application
RQEQ 140~212	2-module systems	RWEYQ8-14	2/3-module systems	2/3-module systems
	2/3 modules: BHFP26P36C 4 modules: BHFP26P84C		BHFQ22P1007 / BHFQ22P1517 (1)	BHFQ23P907 / BHFQ23P1357 (1)

DTA104A53/61/62
Installation in the RWEYQ outdoor unit possible. For installation in indoor units, use appropriate type (DTA104A53/61/62) for particular indoor unit. See Options & Accessories of indoor units

	(for H/P only)	1 kit per system	
	(for H/P only)	1 kit per system	
•	(for H/P only)	1 kit per system	
	•	•	•
	•	•	•
	•	•	•

	Refnet Headers		Heat Recovery Branch	Selector Boxes (BS-Boxes)
Capacity index	Capacity index	Capacity index	1-port R-410A	4 to 16 ports R-410A
< 290	290 ≤ x < 640	> 640	BS1Q-A	BS-Q14AV1B
KHRQ22M29H	KHRQ22M64H	KHRQ22M75H		
KHRQ23M29H	KHRQ23M64H	KHRQ23M75H		
			•	
				•
				KHRP26A1250C
				4-port: KDDN26A4 6-port: KDDN26A8 8-port: KDDN26A8 10-port: KDDN26A12 12-port: KDDN26A12 16-port: KDDN26A16



Options & accessories -

Option	ns & accessories -		Ceiling mounted cassette u	nits	
		Round flow (800x800)	4-way (600x600)	2-way blow	Corner (1-way blow)
罗式	√ indoor & hot water	FXFQ-B	FXZQ-A	FXCQ 20~40A	FXKQ 25~40MA
Individual control systems Panels	Decoration panel (obligatory for cassette units, optional for others, rear panel for FXLQ)	Standard panels: Standard panels: BYCQ140E (white) / BYCQ140EW (full white)(3) / BYCQ140EB (black) Auto cleaning (5)(6): BYCQ140EGF (white) / BYCQ140EGFB (black) Designer panels: BYCQ140EP (white) / BYCQ140EPB (black)	R-410A model: BYFQ60C2WIW (white panel) BYFQ60C2WIS (grey panel) BYFQ60B3WI (standard panel) R-32 model: BYFQ60C4WIW (white panel) (19) BYFQ60C4WIS (grey panel) (19)	20~40: BYBCQ40H 50~63: BYBCQ63H 80~125: BYBCQ125H	25~40: BYK45F 63: BYK71F
Panels	Panel spacer for reducing required installation height		BYFQ60B3W1 (standard panel) (20) KDBQ44B60 (Standard panel)		25~40: KPBJ52F56 63: KPBJ52F80
	Sealing kit for 3- or 2-directional air discharge	KDBHQ56B140 (7)	BDBHQ44C60 (white & grey panel)		
	Sensor kit	BRYQ140B (white panels) BRYQ140BB (black panels) BRYQ140C (white designer panel) BRYQ140CB (black designer panel)	R-410A models: BRYQ60A2W (white) BRYQ60A2S (grey) R-32 models: BRYQ60A3W (white) BRYQ60A3S (grey)		
Jsystems	Infrared remote control including receiver	BRC7FA532F (white panels) (7)(15) BRC7FA532FB (black panels) (7)(15) BRC7FB532F (white designer panel) (7)(15) BRC7FB532FB (black designer panel) (7)(15)	BRC7F530W (9) (10) (white panel) BRC7F530S (9) (10) (grey panel) BRC7EB530W (9) (10) (standard panel)	BRC7C52	BRC4C61
ıtro	BRP069C51 - Onecta app				
vidual cor	Madoka BRC1H52W (White) / BRC1H52S (Silver) / BRC1H52K (Black) User-friendly wired remote controller with premium design BRC1E53A/B/C - Wired remote control with full-text	• (18)	• (18)	•	•
폍	interface and back-light		<u> </u>	-	•
	BRC1D52 (4) - Standard wired remote control with weekly timer	• (15)(18)	• (18)	•	•
E E	DCC601A51 - Intelligent Tablet Controller	•	•	•	•
Centralised control systems	DCS601C51 (12) - intelligent Touch Controller	•	•	•	•
를 다	DCS302C51 (12) - Central remote control	•	•	•	•
e t	DCS301B51 (12) (13) - Unified ON/OFF control		•		
		•		-	•
ace dua	RTD-NET - Modbus interface for monitoring and control RTD-10 - Modbus interface for infrastructure cooling		•	•	•
Building Management System & Standard protocol interfaces for central for individual control	RTD-10 - Modbus interface for infrastructure cooling	•	•	•	•
i ji e	RTD-HO - Modbus interface for hotel	•	•	•	•
fo Ge	KLIC-DI - KNX Interface	•	•	•	•
nag yrot	DCM601A51 - intelligent Touch Manager	•	•	•	•
uilding Man Standard pi for central control	EKMBDXB - Modbus interface	•	•	•	•
ing nda cen	DCM010A51 - Daikin PMS interface	•	•	•	•
Star for	DMS502A51 - BACnet Interface	•	•	•	•
Br Riters	DMS504B51 - LonWorks Interface Replacement long life filter, non-woven type	KAF5511D160	KAF441C60	20~40: KAF531C50 50~63: KAF531C80 80~125: KAF531C160	•
	Auto cleaning filter	see decoration panel			
Wiring and sensors	KRCS - External wired temperature sensor	KRCS01-7B	KRCS01-4	KRCS01-4	KRCS01-1
Wiri se	K.RSS - External wireless temperature sensor	K.RSS	K.RSS	•	•
	Adapter with 2 output signals (Compressor / Error, Fan output)	KRP1BA58 (2)(7)	KRP1B57 (2)		
	Adapter with 4 output signals (Compressor / Error, Fan, Aux. heater, Humidifier output) Adapter for centralised external monitoring/control via dry	EKRP1C12 (2)(7)	EKRP1B2 (2)		KRP1B61
	contacts and setpoint control via 0-140Ω	KRP4A53 (2)(7)	KRP4A53 (2)	KRP4A51 (2)	KRP4A51
vs	Adapter for external central monitoring/control (controls 1 entire system)		KRP2A52	KRP2A51 (2)	KRP2A61
Adapters	Adapter for keycard and/or window contact connection (2)(11)	BRP7A53	BRP7A53 (2)	BRP7A51	BRP7A51
da	Adapter for multi-tenant applications	DTA114A61	DTA114A61		
∢	(24VAC PCB power supply interface) External control adapter for outdoor unit (installation on indoor unit)	5	D.I.I.	DTA104A61 (2)	DTA104A61
	Installation box / Mounting plate for adapter PCBs	KRP1H98A (7)	KRP1BB101		
	(For units where there is no space in the switchbox)	KRP1BC101	KRP1BC101	KRP1C96 (16) (17)	
	Wiring kit for Remote ON/OFF or Forced OFF	Standard	Standard	Standard	Standard
	Relay PCB for output signal of refrigerant sensor				
	Drain pump kit	Standard	Standard	Standard	Standard
	Multi zoning kit (for detailed model code overview refer to multizoning argue card in this catalogue)				
Others	Fresh air intake kit (direct installation type)	KDDP55C160-1 + KDDP55D160-2 (7)(8)	KDDQ44XA60		
Ö	Air discharge adapter for round duct			20 10 4000000000000000000000000000000000	
	Filter chamber for bottom suction			20~40: KDDFP53B50 50~63: KDDFP53B80 80~125: KDDFP53B160	

⁽¹⁾ Pump station is necessary for this option (2) Installation box is necessary for these adapters

⁽³⁾ The BYCQ140EW has white insulation. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140E decoration panel in

environments exposed to concentrations of dirt"
(4) Not recommended because of the limitation of the functions

⁽e) Not recommended because of the limitation of the functions

(5) To be able to control the BYCQI40EGF(B) the controller BRC1E is needed

(6) The BYCQI40EGF(B) is not compatible with Multi and Split Non-Inverter Outdoor units

(7) Option not available in combination with BYCQI40EGF(B)

(8) Both parts of the fresh air intake are needed for each unit

(9) Cannot be combined with sensor kit

⁽¹⁰⁾ Independently controllable flaps function not available

⁽¹¹⁾ Only possible in combination with BRC1H* / BRC1E* (12) When fixing box is required, use KJB212A, KJB311A or KJB411A depending on the size of the

controller

⁽¹³⁾ Option KEK26-1A (Noise filter) is required when installing DCS301B51 (14) Wire harnass EKEWTSC is necessary (15) The active airflow circulation function is not available for this controller.

⁽¹⁶⁾ Up to 2 adaptor PCBs can be installed per installation box (17) Only one installation box can be installed per indoor unit (18) Filter chamber KDJ3705L280 is necessary for this option (19) for 32 class adapter box mounting plate KKSAAP50A56 is needed (20) Filter chamber BDD500B250 is necessary for this option

	Concealed ceiling	units (duct units)		Ceiling sus	pended units	Wall mounted units Floor sta		nding units
Slim	Medium ESP	High	ESP	1-way blow	4-way blow		Concealed	Free-standing
FXDQ-A3	FXSQ-A	FXMQ-P7	FXMQ-MB	FXHQ-A	FXUQ-A	FXAQ-A	FXNQ-A	FXLQ-P
								20~25: EKRDP25A5 32~40: EKRDP40A5 50~63: EKRDP63A5
					KDBHP49B140 + KDBTP49B140			
BRC4C65	BRC4C65	BRC4C65	BRC4C65	BRC7GA53-9	BRC7C58	BRC7EA629 / BRC7EA628	BRC4C65	BRC4C65
•	•	•	•	•	•	•	•	•
• (18)	• (18)	•	•	•	•	•	•	•
• (18)	• (18)	•	•	•	•	•	•	•
• (10)	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
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•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•		•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
15-32: BAE20A62			KAF371M280 (18)	32: KAF501B56 63: KAF501B80 71~100: KAF501B160	KAF511D160			20~25: KAF361L28 32~40: KAF361L45 50~63: KAF361L71
40-50: BAE20A82 63: BAE20A102								
KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-1	KRSC01-4	KRCS01-1
K.RSS	K.RSS	•	•	•	•	K.RSS + EKEWTSC	•	•
		KRP1C64 (2)	KRC1C64	KRP1B54				
KRP1B56	EKRP1B2 (2)	EKRP1B2 (2)				KRP1B56	KRP1B56	KRP1B61
KRP4A54-9 (2)	KRP4A52 (2)	KRP4A51 (2)	KRP4A51	KRP4A52 (2)	KRP4A53 (2)	KRP4A51 (2)	KRP4A54-9	KRP4A51
KRP2A53 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A61	KRP2A62 (2)		KRP2A51 (2)/ KRP2A61(2)	KRP2A53	KRP2A51
BRP7A54	BRP7A51	BRP7A51	BRP7A51	BRP7A52	BRP7A53	BRP7A51 (2)	BRP7A54	BRP7A51
DTA114A61	DTA114A61 (2)	DTA114A61 (2)				DTA114A61	DTA114A61	EKMTAC
DTA104A53	DTA104A61	DTA104A61 (2)	DTA104A61	DTA104A62-9		DTA104A51 / DTA104A61	DTA104A53	DTA104A61
KRP1BB101	KRP1B101/KRP1BB101	KRP4A96		KRP1D93A (19)	KRP1B97	KRP4AA93 (16)(17)	KRP1BB101	
	Standard	Standard	Standard	EKRORO4	EKRORO5	Standard	Standard	Standard
				32: KDU50R63				
Standard	Standard	Standard	KDU30M250	63~100: KDU50R160		K-KDU572KVE		
•	•							
	15~32: KDAP25A36A 40~50: KDAP25A56A 63~80: KDAP25A71A 100~125: KDAP25A140A	50~80: KDAJ25K71 100~125: KDAJ25K140		KDDQ50A140				
	140: -			35: KHFP5M35 63: KHFP5N63 71~100: KHFP5N160				

71 100114111 511100	
HXY080-125A8	HXHD125-200A8
EKHBDPCA2	-
EKRP1HBAA	EKRP1HBAA
EKRP1AHTA	EKRP1AHTA
EKRUAHTB	EKRUAHTB
EKBUHAA6(W1/V3)	-
EKRTWA (1)	EKRTWA (1)
EKRTR1 (1)	EKRTR1 (1)
EKRTETS (2)	EKRTETS (1)
-	EKHTS200AC (3)
-	EKHTS260AC (3)
-	EKHWP300B
-	EKHWP500B
-	EKSV26P (vertical) EKSH26P (horizontal)
-	EKSRPS
	HXY080-125A8 EKHBDPCA2 EKRPIHBAA EKRPIAHTA EKRUAHTB EKBUHAA6(W1/V3) EKRTWA (1) EKRTETS (2)

⁽¹⁾ Requires demand PCB
(2) Can only be used in combination with wireless room thermostat
(3) If tank is NOT mounted on top of the HXHD unit, then option EKFMAHTB is needed to install tank as stand alone





Commercial Ventilation & Air Purification

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Want to know more about ventilation systems and how Indoor Air Quality can be secured by ventilation? Follow our online webinar!









Market leading controls & connectivity

- > Interlock of ventilation and air conditioning system
 - Control ERV/HRV and air conditioning from the same controller
 - Aligns the operation mode between the systems to save energy
- > Easy integration in the total solution
 - Online control and monitoring via the Daikin Cloud Service
 - Full portfolio integration in the intelligent Touch Manager, Daikin's cost-effective mini BMS
- > User-friendly controller with premium design
 - · Intuitive touch button control





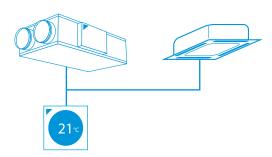






reddot award 2018





Unique installation benefits

- > Integrates seamlessly in the Daikin total solution, ensuring a single point of contact
- > Total fresh air solution with Daikin supplying both the VAM/Modular L Smart and the electrical heater
- > Daikin AHU and condensing unit connect Plug & Play thanks to same pipe diameters, factory mounted controls, expansion valves, etc.









- > Energy recovery of up to 92%, reducing running costs
- > Free nighttime cooling using fresh outside air
- > Inverter driven centrifugal fans
- > ErP compliant



4 Best comfort

- > Wide range of units to control fresh air and humidity
- > Wide range of optional filters to suit the application available up to ePM, 80% (F9)
- Special paper heat exchanger recovers heat and moisture from extract air to warm up and humidify fresh air to comfortable levels (VAM, VKM)



5 Top reliability

- > Most extensive testing before new units leave the factory
- > Widest support network and after sales service
- > All spare parts available in Europe



Did you know?

CO₂ levels and ventilation rates all have significant, independent impacts on cognitive function:

COGNITIVE FUNCTION SCORES ...



+ 61%
IN GREEN BUILDING
CONDITIONS



IN ENHANCED

GREEN BUILDING CONDITIONS

Widest range of DX integrated ventilation on the market

Daikin offers a variety of solutions from small energy recovery ventilation to large-scale air handling units for the provision of fresh air ventilation to homes, or commercial premises.

Ventilation solutions

Daikin offers state-of-the-art ventilation solutions that can easily be integrated into any project:

- > Unique portfolio within DX manufacturers
- > High-quality solutions complying with the highest Daikin quality standards
- > Seamless integration of all products to provide the best indoor climate
- All Daikin products connected to a single controller for complete control
 of the HVAC system.

Energy Recovery Ventilation

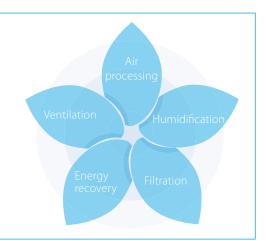
Our energy recovery units **recover sensible energy** (Modular L Pro / Modular L Smart) or **total (sensible + latent) energy** (VAM/EKVDX/VKM-GBM), substantially reducing the load on the air conditioning system up to 40%.

Ventilation with DX connection - Control over fresh air temperature

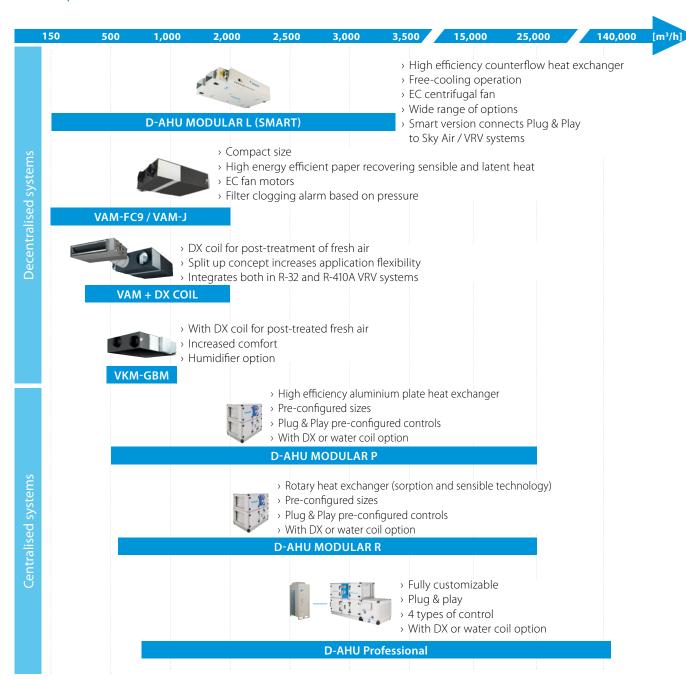
Daikin offers a range of inverter condensing units to be used in combination with Daikin AHUs for ultimate control over the fresh air. There are 4 control possibilities when **combining AHU and Daikin outdoor units** hence offering all the required flexibility for any installation. Indoor units can be combined to the same outdoor unit to reduce the installation costs. For **false-ceiling installations** where space is a constraint, the VKM can fit perfectly to deliver fresh air at a comfortable temperature and it has an optional humidification element.

Indoor Environment Quality Components

- > Ventilation: Ensures the provision of fresh and clean air
- > **Energy recovery:** Delivers energy savings by transferring heat and moisture between airflows thus helping to bring supply air to the required indoor conditions for temperature and humidity
- Air processing: Delivers the required conditioned air to optimize the energy efficiency of indoor HVAC equipment
- > **Humidification:** Ensures the desired moisture level in the conditioned space
- > Filtration: Ensures clean and healthy air by filtering out pollen, dust, odors and other contaminants that are harmful to our health



Fresh air portfolio



Modular L Smart

Premium efficiency heat recovery unit

Highlights

- > Connects Plug&Play into the Sky Air and VRV control network
- > Easy installation and commissioning
- Internal pre-filter stage (up to ePM₁ 50% (F7) + ePM₁ 80% (F9)) making the unit reach highest indoor air quality requirements.
- Wide air flow coverage from 150m³/h to 3,400m³/h
- > Exceeding ErP 2018 requirements
- Best choice when compactness is needed (only 280 mm height up to 550 m³/h)
- 50 mm double skin panel (120 kg/m³) for a maximum sound and thermal insulation

EC centrifugal fan

- Maximum ESP available 600 Pa (depending on model sizes and airflow)
- > Inverter driven with IE4 premium efficiency motor
- > High-efficient blade profiling
- > Reduced energy consumption
- Optimized SFP (Specific Fan Power) for an efficient unit operation

Heat exchanger

- > Premium quality counter flow plate heat exchanger
- > Up to 91% of the thermal energy recovered
- > High grade aluminum allowing optimum corrosion protection



Right drain connection (ALB-RBS)



Left drain connection (ALB-LBS)

More details and final information can be found by scanning or clicking the QR codes.







Technical details

D-AHU Modular L Smart			ALB02*BS	ALB03*BS	ALB04*BS	ALB05*BS	ALB06*BS	ALB07*BS
Airflow		m³/h	300	600	1,200	1,600	2,300	3,000
Heat exchanger thermal ef	fficiency (1)	%	8	36		87		86
External static pressure	Nom.	Pa			10	00		
Current	Nom.	Α	0.61	1.35	2.26	2.83	4.39	6.22
Power input	Nom.	kW	0.14	0.31	0.52	0.65	1.01	1.43
SFPv (2)		kW/m³/s	1.25	1.52	1.3	1.35	1.35	1.51
Electrical supply	Phase	ph				1		
	Frequency	Hz			50	/60		
	Voltage	V			220/2	40 Vac		
Main unit dimensions	Width	mm	920	1,100	1,6	500	2,0	000
	Height	mm	280	350	4	15	5	00
	Length	mm	1,660	1,800		2,0	000	
Rectangular duct flange	Width	mm	250	400	50	00	70	00
J	Height	mm	150	200	30	00	4	00
Weight unit		kg	125	180	270	280	355	360

⁽¹⁾ Winter design condition: Outdoor: -5°C, 90% Indoor: 22°C, 50% | (2) SFPv is a parameter that quantifies the fan efficiency (the lower it is the better will be). This reduces if airflow decreases.

Electrical heater for Modular L Smart

- > Total solution for fresh air with Daikin supply of both Modular L Smart and electrical heaters
- > Increase comfort in low outdoor temperature thanks to the heated outdoor air
- Integrated electrical heater concept (no additional accessories required)
- > Standard dual flow and temperature sensor
- > Heater only consumes what is required to pre-heat to the desired minimum fresh air temperature; thus saving energy





Electrical heater for Modular L Smart (ALD)	02HEFB	03HEFB	05HEFB	07HEFB
Capacity kW	1,5	3	7,5	15
Connectable Modular L Smart size	02	03	04, 05	06, 07
Supply voltage	230\	/,1ph	400\	/,3ph
Output current (maximum) (A)	6,6	13,1	10,9	21,7
Temperature sensor	15k ohms at -20 °C 10k ohms at +10 °C	16k ohms at -20 °C 10k ohms at +10 °C	17k ohms at -20 °C 10k ohms at +10 °C	18k ohms at -20 °C 10k ohms at +10 °C
Temperature control range		- 20 °C 1	:o 10 °C	
Control fuse		Mini Circuit	Breaker 6 A	
LED indicators		Yellow = A Red = H		
Mounting holes		Depends o	n duct size	
Maximum ambient adjacent to terminal box		30°C (during	operation)	
Auto high temperature cutout		75°C P	re-set	
Manual reset high temperature cutout		120°C F	Pre-set	
Width (mm)	470	620	720	920
Depth (mm)	370	370	370	370
Height (mm)	193	243	343	443

Energy recovery ventilation

Ventilation with heat recovery as standard

- > Thinnest High Efficiency Enthalpy Heat Exchanger in the market (J-series)
- > Energy saving ventilation using indoor heating, cooling and moisture recovery
- > Free cooling possible when outdoor temperature is below indoor temperature (eg. during nighttime)
- > Prevent energy losses from over-ventilation while improving indoor air quality with optional CO₂ sensor (J-series)
- > Possibility to change ESP via wired remote control allows optimisation of the supply air volume (J - series)
- > Can be used as stand alone or integrated in the Sky Air or VRV system
- \rightarrow Wide range of units: air flow rate from 150 up to 2,000 m³/h
- > Shorter installation time thanks to easy adjustment of nominal air flow rate, so less need for dampers compared with traditional installation
- > No drain piping needed
- > Can operate in over- and under pressure
- > Total solution for fresh air with Daikin supply of both VAM / VKM and electrical heaters

NEW > VAM-J8 series are connectable to EKVDX DX coil for air processing

More details and final information can be found by scanning or clicking the QR codes.

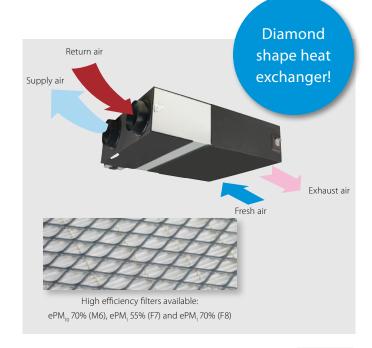












NEW CO₂ concentration visualisation

- > Real time CO₂ visualisation on Madoka controller
- > For VAM-J8 units with optional BRYMA sensor connected





Ventilation			VA	M/VAM	150FC9	250FC9	350J8	500J8	650J8	800J8	1000J8	1500J8	2000J8
Power input - 50Hz	Heat exchange mode	Nom.	Ultra high/High/Low	kW	0.132/0.111/ 0.058	0.161/0.079/ 0.064	0.097/0.070/ 0.039	0.164/0.113/ 0.054	0.247/0.173/ 0.081	0.303/0.212/ 0.103	0.416/0.307/ 0.137	0.548/0.384/ 0.191	0.833/0.614/ 0.273
	Bypass mode	Nom.	Ultra high/High/Low	kW	0.132/0.111/ 0.058	0.161/0.079/ 0.064	0.085/0.061/	0.148/0.100/ 0.045	0.195/0.131/ 0.059	0.289/0.194/ 0.086	0.417/0.300/ 0.119	0.525/0.350/ 0.156	0.835/0.600, 0.239
Temperature exchange efficiency - 50Hz	Ultra high	/High/Low		%	78.3(1)/72.3(2)/	74.9(1)/69.5(2)/ 76.0(1)/70.0(2)/ 80.1(1)/72.0(2)	85.1/86.7/ 90.1	80.0/82.5/ 87.6	84.3/86.4/ 90.5	82.5/84.2/ 87.7	79.6/81.8/ 86.1	83.2/84.8/ 88.1	79.6/81.8/ 86.1
Enthalpy exchange efficiency - 50Hz	Cooling	Ultra high	/High/Low	%	60.3(1)/61.9(1)/ 67.3(1)	60.3(1)/61.2(1)/ 64.5(1)	65.2/67.9/ 74.6	59.2/61.8/ 69.5	59.2/63.8/ 73.1	67.7/70.7/ 76.8	62.6/66.4/ 74.0	68.9/71.8/ 77.5	62.6/66.4/ 74.0
,	Heating	Ultra high	/High/Low	%	66.6(1)/67.9(1)/ 72.4(1)	66.6(1)/67.4(1)/ 70.7(1)	75.5/77.6/ 82.0	69.0/72.2/ 78.7	73.1/76.3/ 82.7	72.8/75.3/ 80.2	68.6/71.7/ 77.9	73.8/76.1/ 80.8	68.6/71.7/ 77.9
Operation mode							Heat exc	hange mod	le, bypass m	ode, fresh-	up mode		
Heat exchange syst	em					Ai	r to air cross	flow total h	neat (sensib	le + latent h	eat) exchan	nge	
Heat exchange eler	nent						Spe	cially proce	ssed non-fl	ammable p	aper		
Dimensions	Unit	HeightxW	/idthxDepth	mm	285x7	76x525	301x1,1	13x886	368x1,354x920	368x1,3	54x1,172	731x1,3	54x1,172
Weight	Unit			kg	24	4.0	46	5.5	61.5	79	9.0	15	57
Casing	Material							Galva	anised steel	plate			
Fan	Air flow rate - 50Hz		e Ultra high/High/ Low	m³/h	150 /140 /105	250 /230 /155	350 (1)/300 (1)/ 200 (1)	500 (1)/425 (1)/ 275 (1)	650 (1)/550 (1)/ 350 (1)	800 (1)/680 (1)/ 440 (1)	1,000 (1)/850 (1)/ 550 (1)	1,500 (1)/1,275 (1)/ 825 (1)	2,000 (1)/1,700 (1)/ 1,100 (1)
		Bypass mode	Ultra high/High/ Low	m³/h	150 /140 /105	250 /230 /155	350 (1)/300 (1)/ 200 (1)	500 (1)/425 (1)/ 275 (1)	650 (1)/550 (1)/ 350 (1)	800 (1)/680 (1)/ 440 (1)	1,000 (1)/850 (1)/ 550 (1)	1,500 (1)/1,275 (1)/ 825 (1)	2,000 (1)/1,700 (1)/ 1,100 (1)
	External static pressure - 50Hz		/High/Low	Pa	90 /87/40	70 /63/25			90	(1)/70.0 /50.	0 (1)		
Air filter	Туре				Multidirectiona	al fibrous fleeces			Multidirecti	onal fibrous	fleeces (G3	3)	
Sound pressure level - 50Hz	Heat exchange mode	Ultra high	/High/Low	dBA	27.0/26.0/ 20.5	28.0/26.0/ 21.0	34.5 (1)/32.0 (1)/ 29.0 (1)	37.5 (1)/35.0 (1)/ 30.5 (1)	39.0 (1)/36.0 (1)/ 31.0 (1)	39.0 (1)/36.0 (1)/ 30.5 (1)	42.0 (1)/38.5 (1)/ 32.5 (1)	42.0 (1)/39.0 (1)/ 33.5 (1)	45.0 (1)/41.5 (1)/ 36.0 (1)
	Bypass mode	Ultra high	/High/Low	dBA	27.0/26.5/ 20.5	28.0/27.0/ 21.0	34.5 (1)/32.0 (1)/ 28.0 (1)	38.0 (1)/35.0 (1)/ 29.5 (1)	38.0 (1)/34.5 (1)/ 30.5 (1)	40.0 (1)/36.5 (1)/ 30.5 (1)	42.5 (1)/40.0 (1)/ 32.5 (1)	42.0 (1)/39.0 (1)/ 32.5 (1)	45.0 (1)/41.0 (1)/ 35.0 (1)
Operation range	Around un	iit		°CDB		-			0°C~40°	CDB, 80% R	H or less		
Connection duct di	ameter			mm	100	150	20	00		250		2x2	250
Power supply	Phase/Free			Hz/V				1~;50	0/60 ; 220-24	0/220			
Current	Maximum		(MFA)	Α	15	5.0				16.0			
Specific energy	Cold clima			kWh/(m².a)	-56.0 (5)	-60.5 (5)				-			
consumption (SEC)				kWh/(m².a)	-22.1 (5)	-27.0 (5)				-			
	Warm clim	ate		kWh/(m².a)	-0.100 (5)	-5.30 (5)				-			
SEC class						B / See note 5				-			
Maximum flow rate				m³/h	130	207				-			
at 100 Pa ESP	Electric po	wer input		W	129	160				-			
Sound power level	· ,			dB	40	43	51	54	5	8	61	62	65
Annual electricity c				kWh/a	18.9 (5)	13.6 (5)				-			
Annual heating	Cold clima			kWh/a	41.0 (5)	40.6 (5)				-			
saved	Average cl			kWh/a	80.2 (5)	79.4 (5)				-			
	Warm clim	ate		kWh/a	18.5 (5)	18.4 (5)				-			

Electrical heater for VAM

- > Total solution for fresh air with Daikin supply of both VAM and electrical heaters
- > Increased comfort in low outdoor temperature thanks to the heated outdoor air
- Integrated electrical heater concept (no additional accessories required)
- > Standard dual flow and temperature sensor
- > Flexible setting with adjustable setpoint
- > Increased safety with 2 cut-outs: manual & automatic



More details and final information can be found by scanning or clicking the QR codes.

Capacity

Duct diameter



25030

3.0

250

35530(1)

3.0

355

Connectable VAM				VAM150FC9	VAM250FC9	VAM350,500J8	VAM650J8, VAM800J8, VAM1000J8	VAM1500J8, VAM2000J8
				GSIEKA10009	GSIEKA15018	GSIEKA20024	GSIEKA25030	GSIEKA35530
		Height	mm	171	221	271	321	426
Dimensions		Depth	mm	100	150	200	250	355
		Width	mm	370	370	370	370	373
Add to the state of the state o			m/s			1.5		
Minimum air velocity / airflow			m³/h	45	100	170	265	535
Power supply						1~230 VAC/50Hz		
Nominal current			Α	4.1	8.2	10.9	13.1	13.1
Heating power			kW	0.9	1.8	2.4	3.0	3.0
Connection duct diameter			mm	100	150	200	250	355
		Min.	°C			-40°C		
Operation range		Max.	°C			40°C		
		Rel. Humidity	%			90%		
Temperature sensor					10) kΩ at +25°C / TJ-K10	OK	
Temperature sensor range						- 30°C to 105°C		
Temperature set point range						- 10°C to 50°C		
		flashing every 5	seconds			heater is starting up)	
	LED 1	flashing every	second		air flov	detected, heating a	allowed	
LED indicators	LEDI	OFF			no	power supply or no	flow	
LED Indicators		ON		problem with	duct temperature	sensor, set point pot	entiometer or PTC	airflow sensor
	LED 2	OFF			h	eater is not operation	n	
	LED 2	ON				heater is operating		
Ambient temperature adjacent to	controller					0°C to +50°C		
Auto high temperature cut-out						50°C		
Manual reset high temperature cu	ıt-out					100°C		

10009

0.9

100

GSIEKA

kW

mm

15018

1.8

150

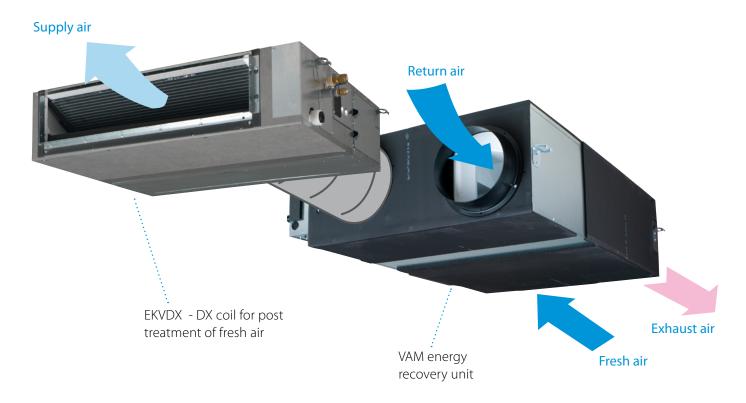
20024

2.4

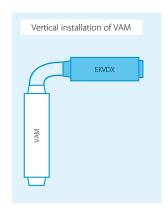
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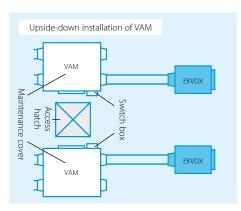


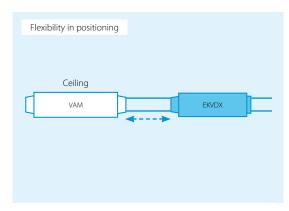
DX coil for post treatment of fresh air



- > Creates a high quality indoor environment by pre conditioning of incoming fresh air
- > Maximum installation flexibility thanks to separate DX coil
 - Different installation possibilities to suit the application





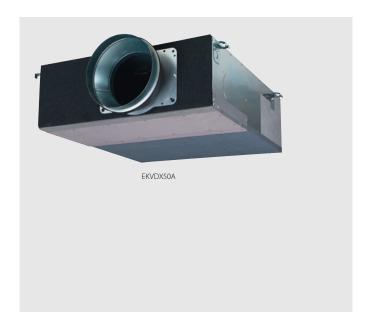


- > Fresh air flows from 500 up to 2,000 m³/h
- > High ESP up to 150 Pa
- > Can be integrated in both R-32/R-410A VRV systems
- > Replaces VKM-GB range, delivering increased capacity range and reduced sound levels

DX coil for air processing

Post heating or cooling of fresh air to lower the load on the air conditioning system

- Creates a high quality indoor environment by pre conditioning of incoming fresh air
- > Maximum installation flexibility thanks to separate DX coil
- > Wide range of units covering fresh air flows of 500 up to 2,000 m³/h
- > High ESP up to 150 Pa
- > Can be integrated in both R-32/R-410A VRV systems



More details and final information can be found by scanning or clicking the QR codes.



					EKVDX32A	EKVDX50A	EKVDX80A	EKVDX100A
Power input - 50Hz	Cooling	Nom.		kW	0.035	0.035	0.035	0.035
	Heating	Nom.		kW	0.035	0.035	0.035	0.035
Casing	Material					Galvanised	d steel plate	
Insulation material						Opcell and ant	i-sweat material	
Dimensions	Unit	Height		mm		2	50	
		Width		mm	550	700	1,000	1,400
		Depth		mm		8	09	
Weight	Unit			kg	19	23.4	30.1	37.7
Operation range	Around u	nit		°CDB		10°C~40°CDB,	80% RH or less	
	On coil	Cooling	Max.	°CDB		3	35	
	temperatur	e Heating	Min.	°CDB			11	
Piping connections	Liquid	OD		mm		6	.35	
	Gas	OD		mm		1:	2.7	
	Drain					VP20 (I.D. 20/O.D. 26)	, drain height 625 mm	
Refrigerant	Type					R410	A/R32	
	GWP					2,087	7.5/675	
Heat exchange syst	em					Direct e	xpansion	
Power supply	Phase					single	phase	
	Frequenc	у		Hz		50)/60	
	Voltage			V		220-2	40/220	

					EKVDX32A + VAM500J8	EKVDX50A + VAM650J8	EKVDX50A + VAM800J8	EKVDX80A + VAM1000J8	EKVDX100A + VAM1500J8	EKVDX100A + VAM2000J8
Cooling capacity	Total (VAM	+DX coil)	At ultra high fan speed	kW	5.1	7.1	8.6	9.3	15.4	18.4
	DX coil		At ultra high fan speed	kW	3.4	4.8	5.5	5.7	9.5	11.2
			At high fan speed	kW	2.7	4.1	4.4	4.5	8.8	9.2
Heating capacity	Total (VAM	+DX coil)	At ultra high fan speed	kW	6.7	8.5	11	11.9	18.7	22.9
	DX coil		At ultra high fan speed	kW	4.2	5.1	6.9	7	10.8	13
			At high fan speed	kW	3.6	4.6	5.8	6.3	9.6	11.7
Fan	Air flow	Heat exchange	Ultra high	m³/h	500	650	800	1000	1500	2000
	rate -	mode	High	m³/h	425	550	680	850	1275	1700
	50Hz	Bypass	Ultra high	m³/h	500	650	800	1000	1500	2000
		mode	High	m³/h	425	550	680	850	1275	1700
	External static	Maximum		Pa	81.9	73.0	133.7	106.0	153.6	92.1
	pressure -	Ultra high		Pa	51.9	43.0	23.7	26.0	43.6	12.1
	50Hz	High		Pa	39.0	33.9	19.4	21.4	35.1	11.9
Sound pressure	Cooling		Ultra high	dBA	32	34	35.5	40.5	38.5	43.5
level - 50Hz	_		High	dBA	30.5	32	34	38	37	40
	Heating		Ultra high	dBA	32.5	34.5	36	40.5	39	44
			High	dBA	31.5	32	34	38.5	37	40.5
Current	Maximum	fuse amps ((MFA)	Α	6	6	6	6	16	16

The heat reclaim ventilation unit and the EKVDX indoor unit MUST share the same electrical safety devices and power supply

Energy recovery ventilation, humidification and air processing

Post heating or cooling of fresh air for lower load on the air conditioning system

- > Energy saving ventilation using indoor heating, cooling and moisture recovery
- > Creates a high quality indoor environment by pre conditioning of incoming fresh air
- > Humidification of the fresh air results in comfortable indoor humidity level, even during heating
- > Free cooling possible when outdoor temperature is below indoor temperature (eg. during nighttime)
- > Low energy consumption thanks to DC fan motor
- > Prevent energy losses from over-ventilation while improving indoor air quality with optional CO₂ sensor
- Shorter installation time thanks to easy adjustment of nominal air flow rate, so less need for dampers compared with traditional installation
- > Specially developed heat exchange element with High Efficiency Paper (HEP)
- > Can operate in over- and under pressure





Ventilation			VKN	1-GBM	50GBM	80GBM	100GBM
Power input - 50Hz	Heat exchange mode	Nom.	Ultra high/ High/Low	kW	0.270/0.230/0.170	0.330/0.280/0.192	0.410/0.365/0.230
	Bypass mode	Nom.	Ultra high/ High/Low	kW	0.270/0.230/0.170	0.330/0.280/0.192	0.410/0.365/0.230
Fresh air	Cooling			kW	4.71 / 1.91 / 3.5	7.46 / 2.96 / 5.6	9.12 / 3.52 / 7.0
conditioning load	Heating			kW	5.58 / 2.38 / 3.5	8.79 / 3.79 / 5.6	10.69 / 4.39 / 7.0
Temperature exchange efficiency - 50Hz	Ultra high/High/l	Low		%	76/76/77.5	78/78/79	74/74/76.5
Enthalpy exchange	Cooling	Ultra high	/High/Low	%	64/64/67	66/66/68	62/62/66
efficiency - 50Hz	Heating	Ultra high	/High/Low	%	67/67/69	71/71/73	65/65/69
Operation mode					Heat exch	nange mode / Bypass mode / Fresh-	-up mode
Heat exchange syst	tem				Air to air cross	flow total heat (sensible + latent h	eat) exchange
Heat exchange eler	ment				Spe	cially processed non-flammable pa	per
Humidifier	System					Natural evaporating type	
Dimensions	Únit	HeightxW	/idthxDepth	mm	387x1,764x832	387x1,76	54x1,214
Weight	Unit			kg	100	119	123
Casing	Material					Galvanised steel plate	
Fan-Air flow rate	Heat exchange mode	Ultra high	n/High/Low	m³/h	500/500/440	750/750/640	950/950/820
- 50Hz	Bypass mode	Ultra high	/High/Low	m³/h	500/500/440	750/750/640	950/950/820
Fan-External static pressure - 50Hz	Ultra high/High/I	Low		Pa	200/150/120	205/155/105	110/70/60
Air filter	Туре					Multidirectional fibrous fleeces	
Sound pressure	Heat exchange mode	Ultra high	/High/Low	dBA	38/36/34	40/37.5/35.5	40/38/35.5
level - 50Hz	Bypass mode	Ultra high	/High/Low	dBA	39/36/34.5	41/38/36	41/39/35.5
Operation range	Around unit			°CDB		0°C~40°CDB, 80% RH or less	
	Supply air			°CDB		-15°C~40°CDB, 80% RH or less	
	Return air			°CDB		0°C~40°CDB, 80% RH or less	
	On coil temperature	Cooling/Ma	x./Heating/Min.	°CDB		-15/43	
Refrigerant	Control	_				Electronic expansion valve	
-	Туре					R-410A	
	GWP					2,087.5	
Connection duct di	iameter			mm	200	25	50
Piping connections	Liquid	OD		mm		6.35	
-	Gas	OD		mm		12.7	
	Water supply			mm		6.4	
	Drain					PT3/4 external thread	
Power supply	Phase/Frequency	//Voltage		Hz/V		1~/50/220-240	
Current	Maximum fuse a	mps (MFA)		Α		15	

Daikin's

air handling units solutions

You will find your match

Why choose Daikin air handling units with a DX connection?



Simplifying business

The unique total solution approach by Daikin helps businesses to propose better cross-pillar solutions, to increase their success ratio by providing unmatchable product combinations to the end-user and to simplify the life of installers by supplying high-quality products coming from the same manufacturer. Contrary to other manufacturers, Daikin does not use OEM products in its AHU with DX offer. Many competitors are either offering OEM DX outdoor units or OEM AHU which create additional problems when warranties or faults arise. **Having a single interface for your business makes Daikin the right choice.**

One-stop shop

Daikin is the only global manufacturer in the market **capable of offering a true Plug & Play solution** where Daikin AHUs manufactured by Daikin Applied Europe and certified by Eurovent, offer off-the-shelf compatibility with Daikin's unique VRV outdoor unit range for the best performance in the market. This unique integration of cross-pillar products under the same umbrella, gives the customer both peace-of-mind and added value when promoting a total solution approach.

Complete range of possibilities

Thanks to the **most complete offer in the market**, Daikin has the solution for all types of commercial applications requiring fresh air. Daikin provides ventilation solutions based on AHU from 2,500 m³/h up to 140,000 m³/h either with natural heat recovery or more advanced ventilation solutions where a VRV outdoor unit can be connected to the Daikin AHU for ultimate climate control. The harmonized control, between the VRV outdoor unit and the AHU, offer outstanding reliable operation of the system when connected to an iTM.

Advantages

- Unique manufacturer offering a complete range
- > Plug & Play solution
- > Direct iTM compatibility

Why use VRV and ERQ condensing units for connection to air handling units?

High Efficiency

Daikin heat pumps are renowned for their high energy efficiency. Integrating the AHU with a high efficiency heat pump system lower the carbon footprint of the building.



Fast response to changing loads resulting in high comfort levels

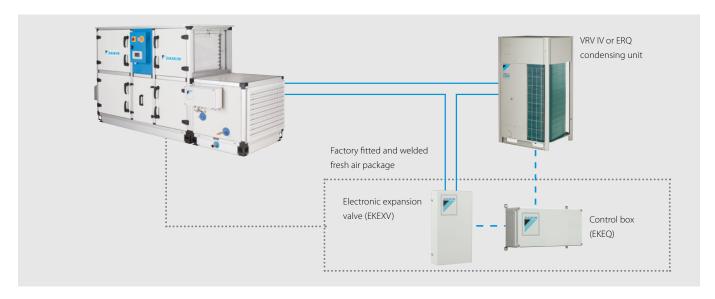
Daikin ERQ and VRV units respond rapidly to fluctuations in supply air temperature, resulting in a steady indoor temperature and resultant high comfort levels for the end user. The ultimate is the VRV range which improves comfort even more by offering continuous heating, also during defrost.

Easy Design and Installation

The system is easy to design and install since no additional water systems such as boilers, tanks and gas connections etc. are required. This also reduces both the total system investment and running cost.

Daikin Fresh air package

- \rightarrow Plug & Play connection between VRV/ERQ and the entire D-AHU modular range.
- > Factory fitted and welded DX coil control and expansion valve kits.



In order to maximise installation flexibility, 4 types of control systems are offered

W control: Off the shelf control of air temperature (discharge temperature, suction temperature, room temperature) via any DDC controller, easy to setup

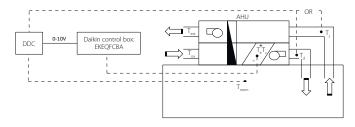
X control: Precise control of air temperature (discharge temperature, suction temperature, room temperature) requiring a preprogrammed DDC controller (for special applications)

Z control: Control of air temperature (suction temperature, room temperature) via Daikin control (no DDC controller needed) **Y control:** Control of refrigerant (Te/Tc) temperature via Daikin control (no DDC controller needed)

1. W control ($T_d/T_s/T_{room}$ control):

Air temperature control via DDC controller

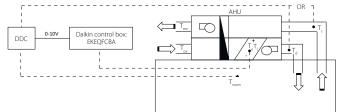
Room temperature is controlled as a function of the air handling unit suction or discharge air (customer selection). The DDC controller is translating the temperature difference between set point and air suction temperature (or air discharge temperature or room temperature) into a proportional 0-10V signal which is transferred to the Daikin control box (EKEQFCBA). This voltage modulates the capacity requirements of the outdoor unit.



2. X control $(T_d/T_s/T_{room}$ control):

Precise air temperature control via DDC controller

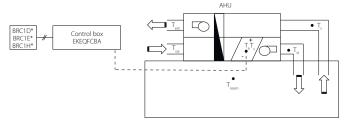
Room temperature is controlled as a function of the air handling unit suction or discharge air (customer selection). The DDC controller is translating the temperature difference between set point and air suction temperature (or air discharge temperature or room temperature) into a reference voltage (0-10V) which is transferred to the Daikin control box (EKEQFCBA). This reference voltage will be used as the main input value for the compressor frequency control.



3. Y control (T_a/T_c control):

By fixed evaporating /condensing temperature

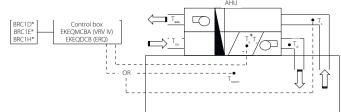
A fixed target evaporating or condensing temperature can be set by the customer. In this case, room temperature is only indirectly controlled. A Daikin wired remote control (BRC1* - optional) have to be connected for initial set-up but not required for operation.



4. $Z \operatorname{control} T_d / T_{room} \operatorname{control}$:

Control your AHU just like a VRV indoor unit (100% recirculation air application)

Allows the possibility to control the AHU just like a VRV indoor unit. Meaning temperature control will be focused on return air temperature from the room into the AHU. Requires BRC1* for operation. The only control that allows the combination of other indoor units to the AHU at the same time.



 T_d = Discharge (supply) air temperature T_{ext} = Extraction air temperature T_s = Suction (return) air temperature T = Evaporating temperature T_{oa} = Outdoor air temperature T_c = Condensing temperature T_{room} = Room air temperature

	Option kit	Features
Possibility W		Off-the-shelf DDC controller that requires no pre-configuration
Possibility X	EKEQFCBA	Pre-configured DDC controller required
Possibility Y		Using fixed evaporating temperature, no set point can be set using remote control
Possibility Z	EKEQDCB	Using Daikin infrared remote control BRC1*
1 Ossibility Z	EKFQMCBA*	Temperature control using air suction temperature or room temperature (via remote sensor)

^{*} EKEQMCB (for 'multi' application)

JRV - for larger capacities (from 8 to 54HP)

An advanced solution for both pair and multi application

- > Inverter controlled units
- > Heat pump
- Heat recovery only for mix application with indoor units without hydrobox. For 100% recirculation AHUs only used as a VRV indoor unit.
- > R-410A
- > Control of room temperature via Daikin control

- > Large range of expansion valve kits available
- BRC1H* is used to set the set point temperature (connected to the EKEQMCBA).
- Connectable to all VRV heat recovery and heat pump systems (VRV H/R and VRV-i only connectable with Z control)

Pair application

One ERQ or VRV IV heat pump (system) connected to one AHU through one refrigerant circuit

- > with W, X, Y and Z control
- > not allowed for VRV H/R



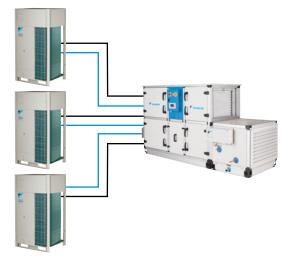
One VRV IV heat pump (system) connected to the interlaced coil of one AHU through several refrigerant circuits

- > with W, X and Y control
- > not allowed for VRV H/R and VRV-i



Several ERQ or VRV IV **heat pumps** connected to the **interlaced coil** of one AHU through **several** refrigerant **circuits**

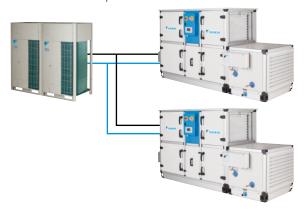
- > with W, X and Y control
- > not allowed for VRV H/R and VRV-i



Multi application

One VRV IV heat pump connected to several AHUs

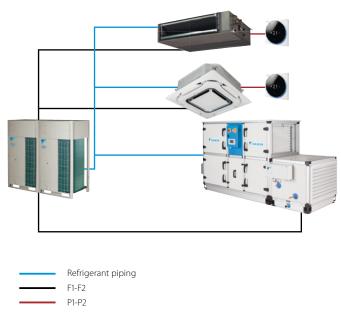
- > with Z control
- > not allowed for VRV H/R
- > no interlaced coil possible



Mix application

VRV indoor units and AHU(s) mixed in the same VRV IV heat pump or heat recovery system

- > with Z control
- > no interlaced coil possible
- > hydrobox not possible





ERQ - for smaller capacities (from 100 to 250 class)

A basic fresh air solution for pair application

- > Inverter controlled units
- > Heat pump
- > R-410A
- > Wide range of expansion valve kits available
- > Perfect for the Daikin Modular air handling unit

The "Daikin Fresh Air Package" provides a complete Plug & Play Solution including AHU, ERQ or VRV Condensing Unit and all unit control (EKEQ, EKEX, DDC controller) factory mounted and configured. The easiest solution with only one point of contact.









ERQ-AW1

Ventilation			ERQ	100AV1	125AV1	140AV1					
Capacity range			HP	4	5	6					
Cooling capacity	Nom.		kW	11.2	14.0	15.5					
Heating capacity	Nom.		kW	12.5	16.0	18.0					
Power input	Cooling	Nom.	kW	2.81	3.51	4.53					
	Heating	Nom.	kW	2.74	3.86	4.57					
EER	y				3.99	3.42					
COP				4.56	4.15	3.94					
Dimensions	Unit	HeightxWidthxDeptl	n mm	1,345x900x320							
Weight	Unit		kg		120						
Casing	Material		9		Painted galvanized steel plate						
Fan-Air flow rate	Cooling	Nom.	m³/min		106						
	Heating	Nom.	m³/min	102	105						
Sound power level		Nom.	dBA	66	67	69					
Sound pressure	Cooling	Nom.	dBA	50	51	53					
level	Heating	Nom.	dBA	52	53	55					
Operation range	Cooling	Min./Max.	°CDB	32	-5/46						
operation range	Heating	Min./Max.	°CWB		-20/15.5						
		Heating/Min./Cooling/Max.	°CDB		10/35						
Refrigerant	Type		200		R-410A						
nemgeralit	Charge		kg		4.0						
	Charge		TCO₂eq		8.4						
	GWP		rco₂eq		2,087.5						
	Control				Expansion valve (electronic type)						
Dining connections		OD	mm								
Piping connections		OD			9.52	10.1					
	Gas	OD	mm			19.1					
Power supply	Drain		mm Hz/V		26x3 1N~/50/220-240						
	Phase/Frequency	y/ voitage	H7/V								
	MA										
Current	Maximum fuse a		Α		32.0						
Current Ventilation	Maximum fuse a		A ERQ	125AW1	32.0 200AW1	250AW1					
Current	Maximum fuse a		ERQ HP	5	32.0 200AW1 8	10					
Ventilation Capacity range Cooling capacity	Nom.		ERQ HP kW	5 14.0	32.0 200AW1 8 22.4	10 28.0					
Current Ventilation Capacity range			ERQ HP kW kW	5 14.0 16.0	32.0 200AW1 8	10 28.0 31.5					
Ventilation Capacity range Cooling capacity	Nom.		ERQ HP kW kW	5 14.0 16.0 3.52	32.0 200AW1 8 22.4	10 28.0 31.5 7.42					
Ventilation Capacity range Cooling capacity Heating capacity	Nom. Nom.	mps (MFA)	ERQ HP kW kW	5 14.0 16.0	32.0 200AW1 8 22.4 25.0	10 28.0 31.5					
Ventilation Capacity range Cooling capacity Heating capacity	Nom. Nom. Cooling	mps (MFA) Nom.	ERQ HP kW kW	5 14.0 16.0 3.52	32.0 200AW1 8 22.4 25.0 5.22	10 28.0 31.5 7.42					
Current Ventilation Capacity range Cooling capacity Heating capacity Power input	Nom. Nom. Cooling	mps (MFA) Nom.	ERQ HP kW kW	5 14.0 16.0 3.52 4.00	32.0 200AW1 8 22.4 25.0 5.22 5.56	10 28.0 31.5 7.42 7.70					
Current Ventilation Capacity range Cooling capacity Heating capacity Power input EER	Nom. Nom. Cooling	mps (MFA) Nom.	ERQ HP kW kW kW	5 14.0 16.0 3.52 4.00 3.98	32.0 200AW1 8 22.4 25.0 5.22 5.56 4.29	10 28.0 31.5 7.42 7.70 3.77 4.09					
Current Ventilation Capacity range Cooling capacity Heating capacity Power input EER COP	Nom. Nom. Cooling Heating	Nom. Nom.	ERQ HP kW kW kW	5 14.0 16.0 3.52 4.00 3.98 4.00	32.0 200AW1 8 22.4 25.0 5.22 5.56 4.29 4.50	10 28.0 31.5 7.42 7.70 3.77 4.09					
Current Ventilation Capacity range Cooling capacity Heating capacity Power input EER COP Dimensions	Nom. Nom. Cooling Heating	Nom. Nom.	ERQ HP kW kW kW kW	5 14.0 16.0 3.52 4.00 3.98 4.00 1,680×635×765	32.0 200AW1 8 22.4 25.0 5.22 5.56 4.29 4.50 1,680x930	10 28.0 31.5 7.42 7.70 3.77 4.09					
Current Ventilation Capacity range Cooling capacity Heating capacity Power input EER COP Dimensions Weight	Nom. Nom. Cooling Heating Unit	Nom. Nom.	ERQ HP kW kW kW kW	5 14.0 16.0 3.52 4.00 3.98 4.00 1,680×635×765	32.0 200AW1 8 22.4 25.0 5.22 5.56 4.29 4.50 1,680x930	10 28.0 31.5 7.42 7.70 3.77 4.09					
Current Ventilation Capacity range Cooling capacity Heating capacity Power input EER COP Dimensions Weight Casing	Nom. Nom. Cooling Heating Unit Unit Material	Nom. Nom. Nom. HeightxWidthxDeptl	ERQ HP kW kW kW kW kW	5 14.0 16.0 3.52 4.00 3.98 4.00 1,680x635x765	32.0 200AW1 8 22.4 25.0 5.22 5.56 4.29 4.50 1,680x930 187 Painted galvanized steel plate	10 28.0 31.5 7.42 7.70 3.77 4.09 ×765					
Current Ventilation Capacity range Cooling capacity Heating capacity Power input EER COP Dimensions Weight Casing	Nom. Nom. Cooling Heating Unit Unit Material Cooling Heating	Nom. Nom. HeightxWidthxDeptl	ERQ HP kW kW kW kW kW kW	5 14.0 16.0 3.52 4.00 3.98 4.00 1,680x635x765 159	32.0 200AW1 8 22.4 25.0 5.22 5.56 4.29 4.50 1,680x930 187 Painted galvanized steel plate	10 28.0 31.5 7.42 7.70 3.77 4.09 ×765					
Current Ventilation Capacity range Cooling capacity Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate	Nom. Nom. Cooling Heating Unit Unit Material Cooling Heating Nom.	Nom. Nom. HeightxWidthxDeptl	ERQ HP kW kW kW kW kW mm kg m³/min m³/min	5 14.0 16.0 3.52 4.00 3.98 4.00 1,680x635x765 159 95	32.0 200AW1 8 22.4 25.0 5.22 5.56 4.29 4.50 1,680x930 187 Painted galvanized steel plate 171 171	10 28.0 31.5 7.42 7.70 3.77 4.09 ×765					
Current Ventilation Capacity range Cooling capacity Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level	Nom. Nom. Cooling Heating Unit Unit Material Cooling Heating Nom.	Nom. Nom. HeightxWidthxDeptl	A ERQ HP kW kW kW kW kW mm kg m³/min m³/min dBA	5 14.0 16.0 3.52 4.00 3.98 4.00 1,680x635x765 159 95 95	32.0 200AW1 8 22.4 25.0 5.22 5.56 4.29 4.50 1,680x930 187 Painted galvanized steel plate 171 171 78	10 28.0 31.5 7.42 7.70 3.77 4.09 x765 240					
Current Ventilation Capacity range Cooling capacity Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level Sound pressure level	Nom. Nom. Cooling Heating Unit Unit Material Cooling Heating Nom. Nom.	Nom. HeightxWidthxDeptl Nom. Nom.	A ERQ HP kW kW kW kW kW mm mm kg m³/min dBA dBA	5 14.0 16.0 3.52 4.00 3.98 4.00 1,680x635x765 159 95 95	32.0 200AW1 8 22.4 25.0 5.22 5.56 4.29 4.50 1,680x930 187 Painted galvanized steel plate 171 171 78	10 28.0 31.5 7.42 7.70 3.77 4.09 x765 240					
Current Ventilation Capacity range Cooling capacity Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level Sound pressure level	Nom. Nom. Cooling Heating Unit Unit Material Cooling Heating Nom. Nom. Cooling Heating	Nom. HeightxWidthxDeptl Nom. Nom.	A ERQ HP kW kW kW kW mmm kg m³/min dBA dBA °CDB	5 14.0 16.0 3.52 4.00 3.98 4.00 1,680x635x765 159 95 95	32.0 200AW1 8 22.4 25.0 5.22 5.56 4.29 4.50 1,680x930 187 Painted galvanized steel plate 171 171 78 57 -5/43	10 28.0 31.5 7.42 7.70 3.77 4.09 x765 240					
Current Ventilation Capacity range Cooling capacity Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level Sound pressure level Operation range	Nom. Nom. Cooling Heating Unit Unit Material Cooling Heating Nom. Nom. Cooling Heating On coil temperature	Nom. HeightxWidthxDeptl Nom. Nom. Min./Max. Min./Max.	A ERQ HP kW kW kW kW mm kg m³/min dBA dBA °CDB °CWB	5 14.0 16.0 3.52 4.00 3.98 4.00 1,680x635x765 159 95 95	32.0 200AW1 8 22.4 25.0 5.22 5.56 4.29 4.50 1,680x930 187 Painted galvanized steel plate 171 171 78 57 -5/43 -20/15	10 28.0 31.5 7.42 7.70 3.77 4.09 x765 240					
Current Ventilation Capacity range Cooling capacity Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level Sound pressure level	Nom. Nom. Cooling Heating Unit Unit Material Cooling Heating Nom. Nom. Cooling Heating On coil temperature Type	Nom. HeightxWidthxDeptl Nom. Nom. Min./Max. Min./Max.	A ERQ HP kW kW kW kW man man kg m³/min dBA dBA °CDB °CWB	5 14.0 16.0 3.52 4.00 3.98 4.00 1,680x635x765 159 95 95 72 54	32.0 200AW1 8 22.4 25.0 5.22 5.56 4.29 4.50 1,680x930 187 Painted galvanized steel plate 171 171 78 57 -5/43 -20/15 10/35	10 28.0 31.5 7.42 7.70 3.77 4.09 x765 240					
Current Ventilation Capacity range Cooling capacity Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level Sound pressure level Operation range	Nom. Nom. Cooling Heating Unit Unit Material Cooling Heating Nom. Nom. Cooling Heating On coil temperature	Nom. HeightxWidthxDeptl Nom. Nom. Min./Max. Min./Max.	A ERQ HP kW kW kW kW kW n mm kg m³/min dBA dBA °CDB °CWB	5 14.0 16.0 3.52 4.00 3.98 4.00 1,680x635x765 159 95 95 72 54	32.0 200AW1 8 8 22.4 25.0 5.22 5.56 4.29 4.50 1,680x930 187 Painted galvanized steel plate 171 171 78 57 -5/43 -20/15 10/35 R-410A	10 28.0 31.5 7.42 7.70 3.77 4.09 x765 240 185 185 58					
Current Ventilation Capacity range Cooling capacity Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level Sound pressure level Operation range	Nom. Nom. Cooling Heating Unit Unit Material Cooling Heating Nom. Nom. Cooling Heating On coil temperature Type Charge	Nom. HeightxWidthxDeptl Nom. Nom. Min./Max. Min./Max.	A ERQ HP kW kW kW kW www. hy kw wa wa wa wa wa wa wa wa wa wa wa wa wa	5 14.0 16.0 3.52 4.00 3.98 4.00 1,680x635x765 159 95 95 72 54	32.0 200AW1 8 22.4 25.0 5.22 5.56 4.29 4.50 1,680x930 187 Painted galvanized steel plate 171 171 78 57 -5/43 -20/15 10/35 R-410A 7.7 16.1	10 28.0 31.5 7.42 7.70 3.77 4.09 x765 240 185 185					
Current Ventilation Capacity range Cooling capacity Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level Sound pressure level Operation range	Nom. Nom. Cooling Heating Unit Unit Material Cooling Heating Nom. Nom. Cooling Heating On coil temperature Type Charge	Nom. HeightxWidthxDeptl Nom. Nom. Min./Max. Min./Max.	A ERQ HP kW kW kW kW kW n mm kg m³/min dBA dBA °CDB °CWB	5 14.0 16.0 3.52 4.00 3.98 4.00 1,680x635x765 159 95 95 72 54	32.0 200AW1 8 22.4 25.0 5.22 5.56 4.29 4.50 1,680x930 187 Painted galvanized steel plate 171 171 78 57 -5/43 -20/15 10/35 R-410A 7.7 16.1 2,087.5	10 28.0 31.5 7.42 7.70 3.77 4.09 x765 240 185 185 58					
Current Ventilation Capacity range Cooling capacity Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level Sound pressure level Operation range Refrigerant	Nom. Nom. Cooling Heating Unit Unit Unit Material Cooling Heating Nom. Nom. Cooling Heating On coil temperature Type Charge GWP Control	Nom. Nom. HeightxWidthxDeptl Nom. Nom. Min./Max. Min./Max. Heating/Min./Cooling/Max.	A ERQ HP kW kW kW kW m m kg m³/min dBA dBA °CDB °CWB °CDB	5 14.0 16.0 3.52 4.00 3.98 4.00 1,680x635x765 159 95 95 72 54	32.0 200AW1 8 22.4 25.0 5.22 5.56 4.29 4.50 1,680x930 187 Painted galvanized steel plate 171 171 78 57 -5/43 -20/15 10/35 R-410A 7.7 16.1 2,087.5 Electronic expansion valve	10 28.0 31.5 7.42 7.70 3.77 4.09 x765 240 185 185 58					
Current Ventilation Capacity range Cooling capacity Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level Sound pressure level Operation range	Nom. Nom. Cooling Heating Unit Unit Unit Material Cooling Heating Nom. Nom. Cooling Heating On coil temperature Type Charge GWP Control	Nom. Nom. HeightxWidthxDeptl Nom. Nom. Min./Max. Min./Max. Heating/Min./Cooling/Max.	A ERQ HP kW kW kW kW n mm kg m³/min dBA dBA °CDB °CWB °CDB TCO ₂ eq mm	5 14.0 16.0 3.52 4.00 3.98 4.00 1,680x635x765 159 95 95 72 54	32.0 200AW1 8 22.4 25.0 5.22 5.56 4.29 4.50 1,680x930 187 Painted galvanized steel plate 171 171 78 57 -5/43 -20/15 10/35 R-410A 7.7 16.1 2,087.5 Electronic expansion valve 9.52	10 28.0 31.5 7.42 7.70 3.77 4.09 x765 240 185 185 58					
Current Ventilation Capacity range Cooling capacity Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level Sound pressure level Operation range Refrigerant	Nom. Nom. Cooling Heating Unit Unit Unit Material Cooling Heating Nom. Nom. Cooling Heating On coil temperature Type Charge GWP Control	Nom. Nom. HeightxWidthxDeptl Nom. Nom. Min./Max. Min./Max. Heating/Min/Cooling/Max.	A ERQ HP kW kW kW kW m m kg m³/min dBA dBA °CDB °CWB °CDB	5 14.0 16.0 3.52 4.00 3.98 4.00 1,680x635x765 159 95 95 72 54	32.0 200AW1 8 22.4 25.0 5.22 5.56 4.29 4.50 1,680x930 187 Painted galvanized steel plate 171 171 78 57 -5/43 -20/15 10/35 R-410A 7.7 16.1 2,087.5 Electronic expansion valve	10 28.0 31.5 7.42 7.70 3.77 4.09 x765 240 185 185 58					

Integration of ERQ and VRV in third party air handling units

a wide range of expansion valve kits and control boxes

Combination table

			Control box	3	Expansion valve kit											
		EKEQDCB	EKEQFCBA	EKEQMCBA	EKEXV50	EKEXV63	EKEXV80	EKEXV100	EKEXV125	EKEXV140	EKEXV200	EKEXV250	EKEXV400	EKEXV500	Mixed connection with VRV indoor units	
		Z control	W,X,Y control	Z control	-	-	-	-	-	-	-	-	-	-	with vkv indoor units	
	ERQ100	P (1)	Р	-	-	Р	Р	Р	Р	-	-	-	-	-	Not possible	
1-phase	ERQ125	P (1)	P	-	-	Р	P	P	P	P	-	-	-	-		
	ERQ140	P (1)	Р	-	-	-	Р	Р	Р	Р	-	-	-	-		
	ERQ125	P (1)	Р	-	-	Р	Р	P	Р	Р	-	-	-	-		
3-phase	ERQ200	P (1)	Р	-	-	-	-	Р	Р	Р	Р	Р	-	-		
	ERQ250	P (1)	Р	-	-	-	-	-	Р	Р	Р	Р	-	-		
VRV IV (VRV IV amb VRV IV V	V H/P C-series V high Dient W-series S-series	-	Р		P (1) / n2 (1)								Possible (not mandatory)			
VRV IV	i-series	-	-	-												
VRV I	V H/R	-	-		n1								Mandatory (no hydrobox)			

- P (pair application) One or more outdoor units connected to an (interlaced) coil of one AHU. To determine exact configuration please refer to the engineering data book.

 n1 (only mix application) Combination of (multiple) AHU(s) and VRV DX indoor(s) is mandatory. To determine the exact configuration please refer to the engineering data book.

 n2 (mix or multi application) Combination of (multiple) AHU(s) with (mix application) or without (multi application) VRV DX indoor(s). To determine the exact configuration please refer to the engineering data book.

 Control box EKEQPA can be connected to some types of VRV IV outdoor units (with a maximum of 3 boxes per unit). Do not combine EKEQPA control boxes with VRV DX indoor units, RA indoor units or hydroboxes (I) No interlaced coil possible with Z control

Capacity table

Cooling

EKEXV Class		ed heat exch capacity (kW	Allowed heat exchanger volume (dm³)				
	Minimum	Standard	Maximum	Minimum	Maximum		
50	5.0	5.6	6.2	1.33	1.65		
63	6.3	7.1	7.8	1.66	2.08		
80	7.9	9.0	9.9	2.09	2.64		
100	10.0	11.2	12.3	2.65	3.30		
125	12.4	14.0	15.4	3.31	4.12		
140	15.5	16.0	17.6	4.13	4.62		
200	17.7	22.4	24.6	4.63	6.60		
250	24.7	28.0	30.8	6.61	8.25		
400	35.4	45.0	49.5	9.26	13.2		
500	49.6	56.0	61.6	13.2	16.5		

Saturated evaporating temperature: 6°C Air temperature: 27°C DB / 19°C WB

Heating

EKEXV Class		ed heat exch capacity (kW	Allowed heat exchanger volume (dm³)				
	Minimum	Standard	Maximum	Minimum	Maximum		
50	5.6	6.3	7.0	1.33	1.65		
63	7.1	8.0	8.8	1.66	2.08		
80	8.9	10.0	11.1	2.09	2.64		
100	11.2	12.5	13.8	2.65	3.30		
125	13.9	16.0	17.3	3.31	4.12		
140	17.4	18.0	19.8	4.13	4.62		
200	19.9	25.0	27.7	4.63	6.60		
250	27.8	31.5	34.7	6.61	8.25		
400	39.8	50.0	55.0	9.26	13.2		
500	55.1	63.0	69.3	13.2	16.5		

Saturated condensing temperature: 46°C Air temperature: 20°C DB

EKEXV - Expansion valve kit for air handling applications

Ventilation		EKEXV	50	63		80	100	125	14	0	2	00	250	400	500	
Dimensions	Dimensions Unit				401x215x78											
Weight	eight Unit				2.9											
Sound pressure level Nom. dBA				45												
Operation range	On coil Heating Min.		°CDB		10 (1)											
	temperature	Cooling Max.	°CDB		35 (2)											
Refrigerant Type / GWP					R-410A / 2.087,5											
Piping connections Liquid OD			mm	6.35					9.52						12.7	15.9

⁽¹⁾ The temperature of the air entering the coil in heating mode can be reduced to -5°CDB. Contact your local dealer for more information. (2) 45% Relative humidity.

EKEQ - Control box for air handling applications

Ventilation		EKEQ	FCBA	DCB	МСВА			
Application			Pair	Pair	Pair/Multi/Mix			
Outdoor unit			ERQ / VRV	ERQ	VRV			
Dimensions	Unit	mm	132x400x200					
Weight	Unit	kg	3.9 3.6					
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/230					

The combination of EKEQFCBA and ERQ is in pair application. The EKEQFCBA can be connected to some type of VRV IV outdoor units with a maximum of 3 control boxes. The combination with DX indoor units, hydroboxes, RA outdoor units, ... is not allowed. Refer to the combination table drawing of the outdoor unit for details.







Plug & play, mobile recirculation unit with high efficiency filtration – for better indoor air quality in commercial spaces

- > For areas where additional, extra high, filtration performance is needed.
- > Airflow rate up to 2,000 m³/h
- > HEPA H14 filter in accordance with EN1822
- > Pre-filter options up to ISO Coarse 70%
- > Optional UV germicidal irradiation (UVGI)
- > Insulated double-wall construction provides whisper-quiet operation down to 35 dB(A)
- > Easy installation, operation, and maintenance in a totally self-contained system
- > For commercial areas up to 200m²







Models

Model	BR00000554	BR00000749	BR00000676	BR00000751	BR00000678	BR00000752
Plug type	EU	UK	EU	UK	EU	UK
HEPA Filter (H14)	, v		v		v	
LCD Screen			٧	/	٧	
Activ. Carbon (Gas phase) pre-filter			٧		٧	
UV light					v	

Providing high-efficiency 2-stage filtration

Standard prefilter

All units are delivered with a prefilter, increasing filter life and protecting the installed HEPA filter

RedPleat - 4531002424

- > Delivered with BR00000554/749
- > ISO 16890: ISO coarse 70%
- Available with Antimicrobial treated media (RedPleat ULTRA)



RedPleat Carb - 4139002424

- > Delivered with BR00000676/751/678/752
- > ISO 16890: ISO coarse 65%
- > Effectively removes offensive odors

Applications

Universities

Commercial

Buildinas

Healthcare

Hospitality

Shopping malls

Main filter

The HEPA filter features eFRM filtration media which combines ultra-high efficiency and particulate loading to remove 99.99% of dust, pollen, mold, bacteria, viruses, and any airborne particle with a size of 0.3 microns or greater.

AstroCel III - 1493299990

- > H14 filtration efficiency according EN 1822
- > V-shaped filter configuration, combined with microglass media, delivers higher flow and the lowest possible pressure drop vs traditional box style HEPA filters
- > Compatible with Discrete Particle Counter (DPC) and photometric test methods as access and instrumentation allow



Astropure 2000, Air Purifier for Commercial Applications

Plug & play, mobile recirculation unit with high efficiency filtration – for better indoor air quality in commercial spaces

- > Airflow rate up to 2000 m³/h
- > HEPA H14 filter in accordance with EN1822
- > Optional touch sensitive LCD Display (BR00000676/678/751/751)
- > Optional UV-C light module (BR00000678/752)
- Insulated double-wall construction provides whisper-quiet operation
- > Activated carbon filter
- > Sliding tray design provides easy access and servicing of filters
- > Designed with internal variable fan speed (electronically commutated) to meet specific application requirements
- > Suitable for in-room use or sheltered outdoor installation
- > CE-compliance, VDI 6022 guided design



More details and final information can be found by scanning or clicking the QR codes.



D00000EE4



BR00000676





Ventilation				BR00000554	BR00000749	BR00000676	BR00000751	BR00000678	BR00000752				
	Plug type			EU	UK	EU	UK	EU	UK				
	HEPA Filter (H14)			,		,		,					
Features	LCD Screen					,	✓						
	Activ. Carbon (Gas	phase) pre-filter				,	/	,	/				
	UV light							✓					
Design air flow rate	2		m³/h			2,0	000						
Application						Floor star	ding type						
Casing	Colour					Painted galvan	ized steel finish						
Dimensions	Unit	HxWxD	mm			1,628 X 7	⁷ 20 x 770						
Weight	Unit		kg			150 (dependi	ng on version)						
Pre-filter	Dust collecting method			Prefilter RedPlea	t, ISO Coarse 70%	Prefilter F	edPleat Carb, ISO	Coarse 65% gas p	hase filter				
HEPA filter	Bacteria filtering method					Astrocel II	I HEPA H14						
Air purifying operation	Power input	High fan speed	kW			0.3	379						
UV-irridiation unit	Power input		kW			-		0.0)25				
Sound pressure level	Air purifying operation	High fan speed	dBA			55	5.9						
Fan Motor						Stepless a	ndjustable						
Safety devices	Item				Safety switc	ch (operation stop	s when the back o	door is open)					
Standard	Prefilter						1						
Accessories	HEPA filter						1						
	Quick Start and Mai	intenance Guide					1						
	Installation and Op	eration Manual				1 (dow	nload)						
Power cord			m			:	3						
Power supply	Phase			1~									
	Frequency		Hz			50	/60						
	Voltage		٧			2	30						
Running current	Air purifying operation	High fan speed	Α			1.	73						

		Heat Rec	covery Ventilat	ion - Modular i	I (Smart)			
		ALB02LBS/RBS	ALB03LBS/RBS	ALB04,05 LBS/RBS	ALB06,07 LBS/RBS	VAM 50FC9	VAM 250FC9	VAM 350J8
tems	BRC301B61 VAM wired remote control	•	•	•	•	•	•	•
Individual control systems	Madoka BRC1H52W (White) / BRC1H52S (Silver) / BRC1H52K (Black) User-friendly wired remote controller with premium design	•	•	•	•	•	•	•
ividual co	BRC1E53A/B/C Wired remote control with full-text interface and back-light	•	•	•	•	•	•	•
<u>pu</u>	BRC1D52 Standard wired remote control with weekly timer	•	•	•	•	•	•	•
itro	DCC601A51 intelligent Tablet Controller	•	•	•	•	•	•	•
d cor	DCS601C51 intelligent Touch Controller	•	•	•	•	•	•	•
Centralised control systems	DCS302C51 Central remote control	•	•	•	•	•	•	•
Cent	DCS301B51 Unified ON/OFF control	•	•	•	•	•	•	•
ard		•	•	•	•	•	•	•
ng ment tandह	EKMBDXB Modbus interface	•	•	•	•	•	•	•
Building Management System & Standard protocol interface	Modbus interrace DMS502A51 PACpat Interface	•	•	•	•	•	•	•
B Mai yster	BACnet Interface DMS504B51							
v -		•	•	•	•	•	•	•
	Coarse 55% (G4)	ALF02G4A	ALF03G4A	ALF05G4A	ALF07G4A			
	ePM10 75% (M5)	ALF02M5A	ALF03M5A	ALF05M5A	ALF07M5A			
	ePM10 70% (M6)							EKAFVJ50F6
v	ePM150% (F7)	ALF02F7A	ALF03F7A	ALF05F7A	ALF07F7A			
Filters	ePM1 60% (F7)							EKAFVJ50F7
	ePM, 70% (F8)							EKAFVJ50F8
	ePM1 80% (F9)	ALF02F9A	ALF03F9A	ALF05F9A	ALF07F9A			
	High efficiency filter							
	Replacement air filter							
ical	Rail	ALA02RLA	ALA03RLA	ALA05RLA	ALA07RLA			
Mechanical accessories	Rectangular to round duct transition	ALA02RCA	ALA03RC	ALA05RCA	ALA07RCA			
Mec	Separate plenum							
CO ₂ sensor	r	BRYMA200	BRYMA200	BRYMA200	BRYMA200			BRYMA65
Electrical l	heater for pre treatment of fresh air	ALD02HEFB	ALD03HEFB	ALD05HEFB	ALD07HEFB	GSIEKA10009	GSIEKA15018	GSIEKA20024
NEW	DX coil for post treatment of fresh air							
Silencer (9	900mm depth)	ALS0290A	ALS0390A	ALS0590A	ALS0790A			
.i.es	Wiring adapter for external monitoring/control (controls 1 entire system)					KRP2A51 (2)	KRP2A51	KRP2A51 (2)
essor	Adapter PCB for humidifier		-			-		
acce	Adapter PCB for third party heater					BRP4A50A	BRP4A50A	BRP4A50A (4)
rical	External wired temperature sensor							
Electrical accessories	Adapter PCB Mounting plate					EKMP25VAM	EKMP25VAM	
	Installation box for adaptor PCB					KRP1BB101	KRP1BB101	KRP1BB101
Notes								

- (1) Do not connect the system to DIII-net devices LONWorks interface, BACnet interface, ...; (intelligent Touch Manager, EKMBDXA are allowed)
- (2) Installation box KRP1BB101 needed
- (3) Adapter PCB mounting plate needed, applicable model can be found in the table above

- (s) Adapter PCB mounting plate needed, applicable model can be found in the table above

 (4) 3rd party heater and 3rd party humidifier cannot be combined

 (5) Installation box KRP50-2A90 needed

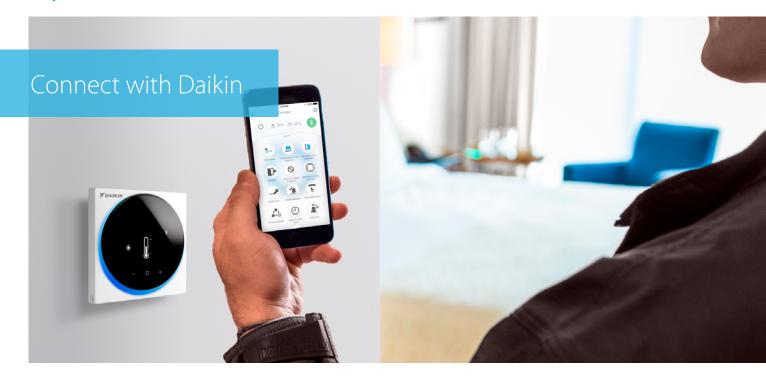
 (6) Contains 1 plenum and can be used for half side of the unit (up to 4 plenums can be used on 1 unit)

 (7) Available only with optional plenum

 (8) To be combined with option BRP4A50A using external 230VAC with local supplied circuit breaker (max. 3A)

Energy red	covery ventila	tion - VAM				Energy re	covery ventila	ntion VKM	Air hand	dling unit app	lications
VAM 500J8	VAM 650J8	VAM 800J8	VAM 1000J8	VAM 1500J8	VAM 2000J8	VKM 50GBM	VKM 80GBM	VKM 100GBM	EKEQFCBA (1)	EKEQDCB (1)	EKEQMCBA (1)
•	•	•	•	•	•						
•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•
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•	•	•	•	•	•	•	•	•			
•	•	•	•	•	•	•	•	•			
•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•			
•	•	•	•	•	•	•	•	•			
EKAFVJ50F6	EKAFVJ65F6	EKAFVJ100F6	EKAFVJ100F6	EKAFVJ100F6 x2	EKAFVJ100F6x2						
EKAFVJ50F7	EKAFVJ65F7	EKAFVJ100F7	EKAFVJ100F7	EKAFVJ100F7x2	EKAFVJ100F7 x2						
EKAFVJ50F8	EKAFVJ65F8	EKAFVJ100F8	EKAFVJ100F8	EKAFVJ100F8 x2	EKAFVJ100F8 x2						
						KAF242H80M	KAF242H100M	KAF242H100M			
						KAF241H80M	KAF241H100M	KAF241H100M			
				EKPLEN200 (6)	EKPLEN200 (6)						
BRYMA65	BRYMA65	BRYMA100	BRYMA100	BRYMA200	BRYMA200	BRYMA65	BRYMA100	BRYMA100			
GSIEKA20024	GSIEKA25030	GSIEKA25030	GSIEKA25030		35530 (7)	GSIEKA20024 (8)	GSIEKA20024 (8)	GSIEKA20024(8)			
EKVDX32A	EKVDX50A	EKVDX50A	EKVDX80A	EKVDX100A	EKVDX100A						
KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (4)			
						BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (4)			
BRP4A50A (4)	BRP4A50A (3/4)	BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (3/4)	BRP4A50A (3/4)	BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (4)			
										KRCS01-1	
	EKMP65VAM				PVAM						
KRP1BB101	KRP1BB101	KRP1BB101	KRP1BB101	KRP1BB101	KRP1BB101						





If you are a user or installer it is important you can **interact with our systems** in the easiest way, from **anywhere you are**. For any user our interfaces create **peace of mind** that their system is running in the best possible way.

Depending on the type of user and application Daikin develops controls and cloud services to ensure the best experience.

- > For home owners it means **app and voice control** of their home comfort.
- > For hotel owners it means easy and stylish **personal control for guests**, with an integration in hotel booking software for central control
- > For technical managers it means **cloud access** to all sites, with the possibility to benchmark, optimize performance
- For installers it means easy transfer of settings during commissioning, remote retrieval of errors and preventive alerts to save time on maintenance or interventions

Our controls enable you to **connect with your customer**, save time, improve your comfort intelligently and reduce energy bills.







Remote monitoring



Control Systems

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Control solutions summary

Daikin offers various control solution adapted to the requirements of even the most demanding commercial application.

- > Basic control solutions for those customers with few requirements and limited budget
- > Integrating control solutions for those customers that would like to integrate Daikin units into their existing BMS system
- Advanced control solutions for those customers that expect Daikin to deliver a mini BMS solution, including advance energy management

Shop		Unit control		İr	ntegrating con	trol	Advanc	ed control
	(a)	-21		***	Zeme Ge		Intelligent Controller	From State S
T T	BRP069*	BRC1H52W/S/K	RTD-20	RTD-Net	KLIC-DI	EKMBDXA	DCC601A51	DCM601A51
	Smartphone control for up to 50 indoor units	1 remote controller for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)		1 gateway for max. 64 indoor unit(s) (groups) & 10 outdoors	1 unit for 32 indoor unit(s) (5)	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	•	•	•	•	•	•	•	•
Limit control possibilities for shop staff	•	•	•	•	•	•	•	•
Create zones within the shop			•				•	•
Interlock with eg. Alarm, PIR sensor			•				(limited)	•
Integration into smart home systems	• (7)							
Integrate Daikin units into existing BMS via Modbus				•		•		
Integrate Daikin units into existing BMS via KNX					•			
Integrate Daikin units into existing BMS via HTTP								•
Monitor energy consumption	• (4)	• (4)					• (2)	•
Advanced energy management							• (2)	• (6)
Allows free cooling								•
Voice control	• (6)							
Integrate Daikin products cross pillars into Daikin BMS								•
Integrate third party products into Daikin BMS							•	•
Online control	•						• (2)	• (3)
Manage multiple sites							• (2)	• (3)

(1) 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) Via Daikin cloud service (3) Through own IT set-up (not Daikin cloud server) (4) Not available on all indoors (5) Up to 10 DCC601A51 can be combined as a single site on Daikin Cloud Service (6) Only for BRP069C51, connection to Google Assistant and Amazon Alexa; (7) only for BRP069C51, contact your local sales representative for an overview of available services.

Unit control	Integratir	ig control	Advanced control						
		Zomin (G)	PMS Interface	fueltion Manager					
BRC1H52W/S/K	RTD-HO	KLIC-DI	DCM010A51	DCM601A51					
1 remote controller for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit	1 interface for up to 2,500 indoor units	1 iTM for 64 indoor unit(s) (groups) (1)					
•	•	• (3)		•					
•	•	•	•	•					
• (2)	•			•					
• (2)	•			•					
	•								
		•							
				•					
			Oracle Opera PMS						
				•					
				•					
				•					
				•					
				•					
	BRC1H52W/S/K 1 remote controller for 1 indoor unit (group) (g2)	BRC1H52W/S/K 1 remote controller for 1 indoor unit (group) (group) (2) (2)	BRC1H52W/S/K RTD-HO KLIC-DI 1 remote controller for 1 indoor unit (group) 1 gateway for 1 indoor unit (group) (group) (3) (2) (2)	BRC1H52W/S/K RTD-HO KLIC-DI DCM010A51 1 remote controller for 1 indoor unit (group) 1 gateway for 1 indoor unit (group) (group) (3) (2) (2)					

Office	Unit control		Integrating control		Advance	d control
	•21 <			Former cond	・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・	Endig Branger From
			LonWorks Interface	BACnet Interface	Intelligent Controller	fintelligent Manager
	BRC1H52W/S/K	EKMBDXB	DMS504B51	DMS502A51	DCC601A51	DCM601A51
	1 remote controller for 1 indoor unit (group)	1 gateway for max. 64 indoor unit(s) (groups) & 10 outdoors	1 gateway for 64 indoor unit(s) (groups)	1 gateway for 128 indoor unit(s) (groups), 20 out- doors (2)	1 unit for 32 indoor unit(s) (groups) (5)	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	•	•	•	•	•	•
Centralised control for management		•	•	•	•	•
Local control for office staff	•				• (4)	through Web
Limit control possibilities for office staff	•	•	•	•	•	•
Integrate Daikin units into existing BMS via Modbus		•				
Integrate Daikin units into existing BMS via HTTP						•
Integrate Daikin units into existing BMS via LonTalk			•			
Integrate Daikin units into existing BMS via BACnet				•		
Energy consumption read out	• (3)					
Monitor energy consumption					• (4)	•
Advanced energy management					• (4)	•
PPD software to distribute used kWh/indoor unit				• (6)		• (7)
Integrate Daikin cross pillar products into Daikin BMS						•
Integrate third party products into Daikin BMS					•	•
Online control					• (4)	•
Manage multiple sites					• (4)	• (5)

(1) 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) extension (DAM411B51) needed to have up to 256 indoor unit(s) (groups), 40 outdoors (3) Not available on all indoor units (4) Via Daikin cloud service (5) Through own IT set-up (not Daikin cloud sever) (5) Up to 10 DCC601A51 can be combined as a single site on Daikin Cloud Service (6) via DAM412B51 option (7) via DCM002A51 option

Infrastructure cooling	Unit	Integrating	Advanced
	21:	The state of the s	Trans From From From From From From From From
	BRC1H52W/S/K	RTD-10	DCM601A51
	1 remote controller for 1 indoor unit (group) (2)	1 gateway for 1 indoor unit (group) Up to 8 gateways can be linked together	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	•	•	•
Back-up operation	•	•	•
Duty rotation	•	•	•
Limit control possibilities in the technical cooling room	•	•	•
If room temperature above max., then show alarm & start standby unit.		•	•
If an error occurs, an alarm will be shown.	•	•	•
If an error occurs, activate an alarm output	Via KRP2/4A option (3)	•	Via WAGO I/O

^{(1) 7} iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) Infrastructure cooling functions only compatible with indoor units connected to RZQG*/RZAG* outdoor units. (3) See option list of indoor unit



The Onecta App is for those who live their life on the go and who want to manage their heating and cooling system from their smartphone.



onecto

NEW

Voice control

To provide users with even more comfort and ease, the Onecta App now offers voice control. This hands-free feature cuts down on clicks to manage units faster than ever before.

Cross-functional and multilingual, voice control pairs well with any smart device, including Google Assistant and Amazon Alexa.



Example of using the voice control via Google Assistant

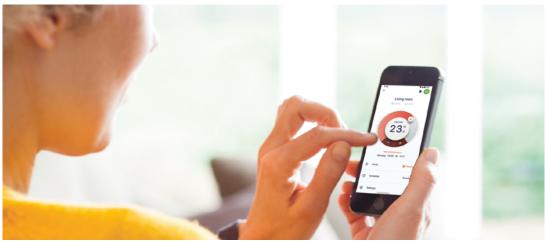
Allright, setting the living room to 21

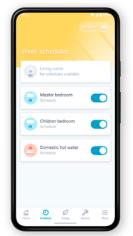
degrees



Example of using the voice control via Amazon Alexa



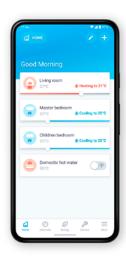




Schedule

Set up a programme outlining when the system should operate, and create up to six actions per day.

- Schedule room temperature and operation mode
- Enable holiday mode to save costs



Control

Customise the system to fit your lifestyle and year-round comfort levels.

- ✓ Change room and domestic hot water temperature
- ✓ Turn on powerful mode to boost hot water production



Monitor

Receive a thorough overview of how the system is performing and how much energy it consumes.

- ✓ Check the status of the heating system
- Access energy consumption graphs (day, week, month)

Function availability depends on the system type, configuration and operation mode. The app functionality is only available if both the Daikin system and the app have a reliable internet connection.







Scan the QR code to download the app now







Daikin Online Controller connectable units

BRP069C51 *

VRV 5 indoor units

> FXFA-A
 > FXZA-A
 > FXDA-A
 > FXDA-A
 > FXSA-A
 > FXUA-A

* Must be combined with BRC1H52W/S/K

Madoka wired remote controller

Madoka

The beauty of simplicity.







User-friendly wired remote controller with premium design

Madoka combines refinement and simplicity

- > Sleek and elegant design
- > Intuitive touch-button control
- > Three display options: standard, detailed and **new symbolic view**
- > Three colours to match any interior
- > Compact, measures only 85 x 85 mm
- > Advanced settings **copy function** and commissioning via smartphone

NEW > CO₂ concentration visualisation







Madoka Assistant









Simplifies the advanced settings such as schedule or set point limitation

- ✓ Visual interface simplifies advanced settings such as schedule setting, energy saving activation, setting restrictions, etc.
- Save field settings and schedules on your phone and upload to multiple controllers, saving time and cost
- ✓ Easy and quick commissioning
- ✓ Featuring Bluetooth® low energy technology

Easy setting of schedules



Advanced user settings



NEW

Bluetooth strength indication



Field settings



BRC1H519W7 / BRC1H519S7 / BRC1H519K7

Madoka wired remote controller for Sky Air and VRV







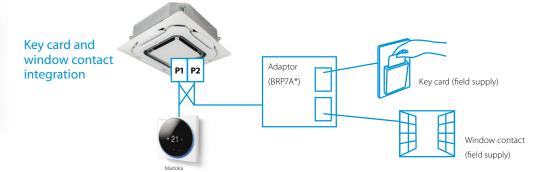


A complete redesigned controller focussed to enhance user experience

- > Sleek and elegant design
- > Intuitive touch-button control
- > Three display options: standard, detailed and new symbolic view
- > Direct access to basic functions (on/off, set point, mode, target values, fan speed, louvres, filter icon & reset, error & code)
- > Three colours to match any interior
- > Compact, measures only 85 x 85 mm
- > Real time clock with auto update to daylight saving time

Hotel application features

- > Energy saving through key card, window contact integration and set point limitation (BRP7A*)
- > Flexible setback function ensures room temperature remains within comfortable limits to ensure guest comfort





Madoka Assistant: Advanced settings can be easily done via your smartphone

A range of energy-saving functions that can be selected individually

- > Temperature range restriction: Save on energy by setting the low temperature limit in cooling mode and the high temperature limit in heating mode (1)
- > Setback function
- > Adjustable presence detector and floor sensor (available on the Round Flow and Fully Flat
- > Automatic temperature reset
- > Auto off timer

Kilowatt-hour consumption tracking (2)

The kWh indicator displays indicative power consumption for the last day/month/year.

Other functions

- > NEW Three user access levels: Basic user, Advanced and Installer to match user requirements and prevent improper use.
- > Save field settings and schedules on your phone and upload to multiple controllers, saving time and cost
- > NEW Mark frequently used menu's as favourites for
- > Up to three independent schedules can be programmed, allowing you to switch easily between them throughout the year (e.g. summer/winter/ mid-season)
- > Menu settings can be individually locked or restricted
- > The outdoor unit can be set to quiet mode and power consumption limit control by schedule (3)
- > Real-time clock that updates automatically for daylight saving



Cost-effective solution for infrastructure cooling applications

After a certain period of time, the operating unit will go into standby and the standby unit will take over, extending the system lifetime. Rotation interval can be set for 6, 12, 24, 72 or 96 hours, as well as weekly.

BRC1E53A/B/C

User friendly remote control for Sky Air and VRV



Graphical display of indicative electricity consumption (Function available in combination with FBA-A, FCAG and FCAHG)

A series of energy saving functions that can be individually selected

- > Demand control (1)
- > Temperature range limit
- > Setback function
- Presence & floor sensor connection (available on round flow and fully flat cassette)
- > kWh indication (2)
- > Set temperature auto reset
- > Off timer

Cost-effective solution for infrastructure cooling applications

> Only in combination with RZAG* / RZQG*

Other functions

- > Up to 3 independent schedules
- > Possibility to individually restrict menu functions
- > Choice of display between symbol or text
- Real time clock with auto update to daylight saving time
- Built-in backup power for clock (up to 48 hours).
 Settings are always kept in case of power loss.
- Supports multiple languages:
 BRC1E53A: English, German, French, Dutch, Spanish, Italian, Portuguese
 BRC1E53B: English, Czech, Croatian, Hungarian, Romanian, Slovenian, Bulgarian
 BRC1E53C: English, Greek, Russian, Turkish, Polish, Slovak, Albanian

(1) Only available on RZAG*, RZASG*, RZQSG*, RZQSG* I (2) For Sky Air FBA, FCAG and FCAHG pair combinations only

BRC1D52

Wired remote control for Sky Air and VRV



BRC1D52

- > Schedule timer: Five day actions can be set
- > Home leave (frost protection): during absence, the indoor temperature can be maintained at a certain level. This function can also switch the unit ON/OFF
- > User friendly HRV function, thanks to the introduction of a button for ventilation mode and fan speed
- > Immediate display of fault location and condition
- > Reduction of maintenance time and costs

ARC4*/BRC4*/BRC7*

Infrared remote control





ARC466A1 BRC4*/BRC7*

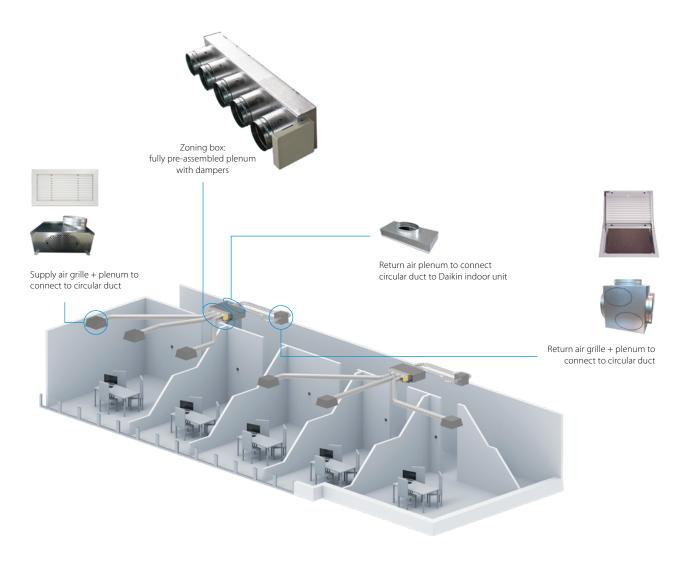
Operation buttons: ON/OFF, timer mode start/stop, timer mode on / off, programme time, temperature setting, air flow direction (1), operating mode, fan speed control, filter sign reset (2), inspection (2)/test indication (2)

Display: Operating mode, battery change, set temperature, air flow direction (1), programmed time, fan speed, inspection/test operation (2)

- 1. Not applicable for FXDQ, FXSQ, FXNQ, FBDQ, FDXM, FBA
- 2. For FX** units only
- 3. For all features of the remote control, refer to the operation manual

Multi-zone controller

The multi-zoning system is a room-by-room controller. It is fitted with motorised dampers, which immediately adapt using Daikin ducted solutions. This system supports control of up to 8 zones connected to one indoor unit via a centralised thermostat located in the main room and individual thermostats for each of the zones.



Compatibility

								,	S	k	//	tir	-													1	1	7	J	7						
				ı	FDX	M-F	9			FB	BA-A	(9)			Α	DEA	۱-A			F)	XDQ)-A3								F	FXSC)-A				
Numbe motorised damp		Reference	Dimensions H x W x D (mm)	25	35	50	60	35	50	60	71	100	125	140	71	100	125	15	20	25	32	40	50	63	15	20	25	32	40	50	63	71	80	100	125	140
	2	AZEZ6DAIST07XS2	200 - 020 - 454																						•	•	•	•								
	2	AZEZ6DAIST07S2	300 x 930 x 454					•	•																				•	•			П			
		AZEZ6DAIST07XS3																П							•	•	•	•								
	3	AZEZ6DAIST07S3	300 x 930 x 454					•	•									Г											•	•	П		П			
		AZEZ6DAIST07S4	300 x 930 x 454					•	•																				•	•			П			
Chandend Calling	4	AZEZ6DAIST07M4	300 x 1,140 x 454							•	•				•																•		•			
Standard Ceiling Void		AZEZ6DAIST07M5								•	•				•			İ												П	•		•			
Void	5	AZEZ6DAIST07L5	300 x 1,425 x 454									•	•	•		•	•																	•	•	
		AZEZ6DAIST07M6								•	•				•																•		•			
A. C.	6	AZEZ6DAIST07L6	300 x 1,638 x 454									•	•	•		•	•	Т													\neg			•	•	
		AZEZ6DAIST07L7										•	•	•		•	•																	•	•	
	7	AZEZ6DAIST07XL7	515 x 1,425 x 454																																	•
		AZEZ6DAIST07L8										•	•	•		•	•	Т													\neg			•	•	
	8	AZEZ6DAIST07XL8	515 x 1,425 x 454																																	•
Compact Ceiling	2	AZEZ6DAISL01S2	210 x 720 x 444	•	•													•	•	•	•									П	\neg	\Box	П			
Void	3	AZEZ6DAISL01S3	210 x 720 x 444	•	•													•	•	•	•															
Caran	4	AZEZ6DAISL01M4	210 x 930 x 444															T				•	•													
The state of the s	5	AZEZ6DAISL01L5	210 x 1,140 x 444			•	•																	•												

Controls

3 controller versions are available to choose from: Colour, touch or simplified



AZCE6BLUEZEROCB (Wired)

Bluezero - main thermostat

> Intuitive graphical, colour touch screen for controlling multiple zones



AZCE6THINKCB (Wired) AZCE6THINKRB (Wireless)

Think - zone thermostat

> Graphic touch button with low-energy e-ink screen for controlling single zones



AZCE6LITECB (Wired) AZCE6LITERB (Wire

Lite - zone thermostat

> Simplified thermostat with touch buttons for temperature control

> Optional bus cable (2 x 0.5 mm² | 2 x 0.22 mm²), 15 m length: AZX6CABLEBUS15, 100m length: AZX6CABLEBUS100





Webserver for remote control

- > Cloud based remote control of multizoning kit(s)
- > Configruation and control of zones (temperature, operation mode, ...)
- > Access via webportal, or Android/IOS application
- > Supports Ethernet and WIFI
- > AZX6WSPHUB:
 - > For installation on DIN rail
 - > 32 zoning boxes can be controlled
- > AZX6WSC5GER:
 - > For installation in the unit
 - > Controls one zoning box



AZX6WSPBAC



AZX6KNXGTWAY

BACnet or KNX gateway

- > Allows ON/OFF control of each zone
- > Control of temperature for each zone
- > Status indication of operation mode
- > One gateway needed per system

Grilles and plenums

Supply air grilles and plenums



RDHV040015BKX

Wall type supply grille

> With horizontal and vertical adjustable flaps



RREROSOO50BTX

Return air grilles and plenums





> Filters particles from the air



Ceiling type supply grille

- > With horizontal flaps angled at 15°
- > Vertical flaps can be adjusted manually



Plenum for return grille

- > To connect 1 up to 4 circular ducts to the return air grille
- > Diameter 250mm



Plenum for supply grille

- > To connect circular ducts to discharge grille
- > Insulated, galvanised steel
- > Diameter 250mm



AZCEZDAPR07*

Plenum for return air

- > To connect 1 up to 4 circular ducts to the Daikin concealed ceiling units
- > Diameter 250mm
- > Different sizes (XS, S, M, L, XL) to fit the indoor unit

DCC601A51

ntelligent Controller

Advanced centralised controller with Cloud connection

- Intuitive and user-friendly interface
- Flexible concept for stand alone and multi site applications
- Total solution thanks to integration of 3rd party equipment
- Monitor & control your small commercial building, no matter where you are

2 solutions:

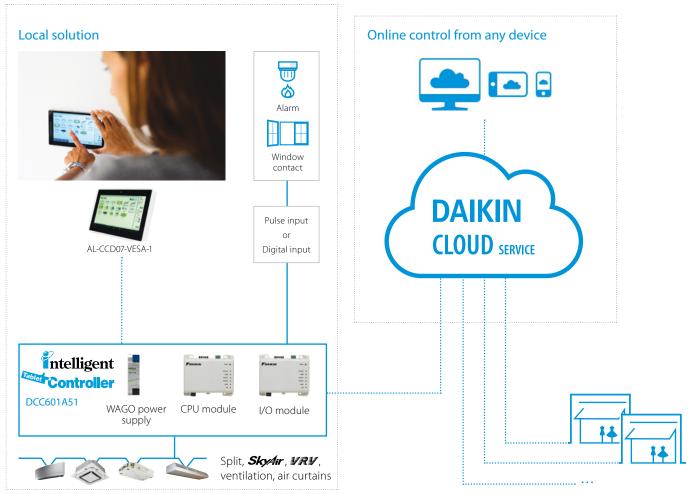
Local solution

- > Offline centralised control
- > Stylish optional screen fits any interior

Cloud solution

- > Flexible online control from any device (Laptop, tablet...)
- > Monitor & control one or multiple sites
- > Benchmark the energy consumption of different installations (1)
- > Energy consumption follow-up to comply with local regulations

System layout



Total solution

- Total solution thanks to a large integration of Daikin products and 3rd party equipment
- > Connect a wide range of units (Split, Sky Air, VRV, Ventilation, Biddle air curtains)
- > Simply control your entire building centrally
- Increased customer shopping experience by better management of your shop comfort level

Daikin Cloud Services

- > Control your building no matter where you are
- > Monitor and control multiple sites
- > Installer or technical manager can remotely login to the cloud for first troubleshooting
- Benchmark the energy consumption of different installations (1)
- > Manage & track your energy use

User friendly touch control

- Stylish Daikin supplied optional screen for local control fits any interior
- > Intuitive and user-friendly interface
- > Full solution with simple control
- > Easy commissioning

Flexible

- > Pulse/digital inputs for 3rd party equipment such as kWh meters, emergency input, window contact, ...
- Modular concept allows your cloud to grow with your business
- > Control up to 32 indoor units per controller and 320 units per site

(1) only available in combination with certain indoor units







Functions overview

		Local solution	Cloud solution
Languages		Depends on local device	EN, DE, FR, NL, ES, IT, EL, PT, RU, TR, DA, SV, NO, FI, CS, HR, HU, PL, RO, SL, BG, SK
System layout	N° of connectable indoor units	32	32
	Multiple sites control		•
Monitoring & control	Basic control functions (ON/OFF, mode, filter sign, setpoint, fan speed, ventilation mode, room temperature,)	•	•
	Remote control prohibition	•	•
	All devices ON/OFF	•	•
	Zone control		•
	Group control	•	•
	Weekly schedule	•	•
	Yearly schedule		•
	Interlock control	•	•
	Set point limitation		•
	Visualisation of energy use per operation mode		•
Connectable to	DX split, Sky Air, VRV	•	•
	Modular L Smart, VAM, VKM ventilation	•	•
	Air curtains	•	•



Mini BMS

with full integration across all product pillars

DCM601A51

Intelligent Manager

• Price competitive mini BMS

• Cross-pillar integration of Daikin products

Integration of third party equipment

Download the WAGO selection tool from my.daikin.eu

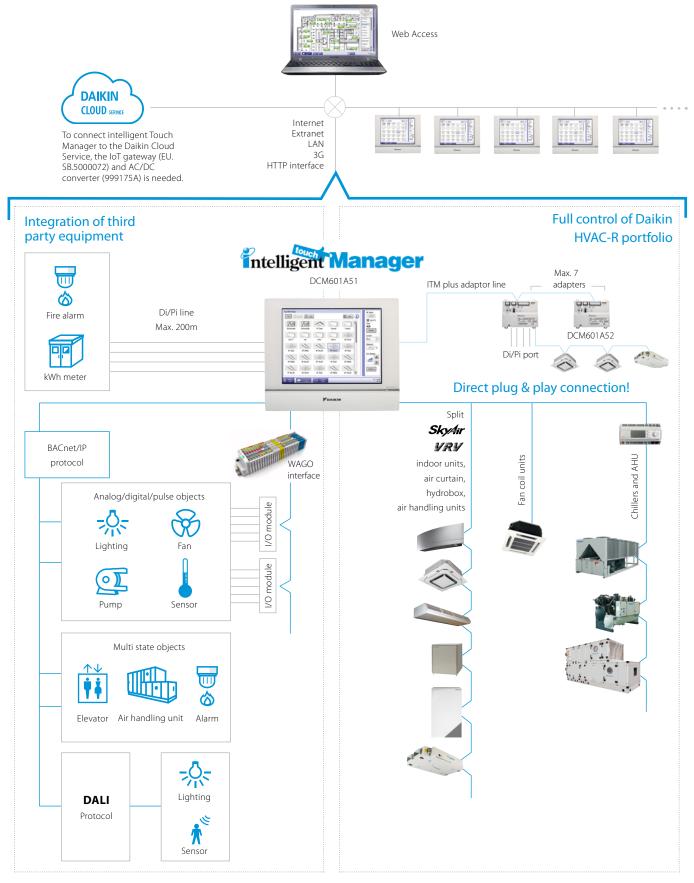
- > Easy selection of WAGO materials
- > Material list creation
- > Time savino
- Includes wiring schemes
- Contains commissioning/preset data for iTM







System overview



Intelligent Manager

User friendliness

- > Intuitive user interface
- Visual lay out view and direct access to indoor unit main functions
- All functions direct accessible via touch screen or via web interface

Smart energy management

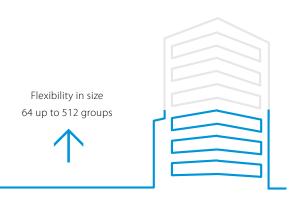
- > Monitoring if energy use is according to plan
- > Helps to detect origins of energy waste
- Powerful schedules guarantee correct operation throughout the year
- Save energy by interlocking A/C operation with other equipment such as heating

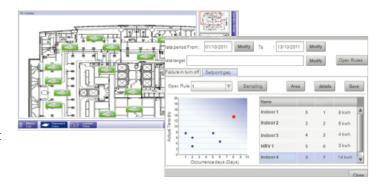
Flexibility

- > Cross-pillar integration (heating, air conditioning, applied systems, refrigeration, air handling units)
- > BACnet protocol for 3rd party products integration
- > I/O for integration of equipment such as lights, pumps... on WAGO modules
- > Modular concept for small to large applications
- Control up to 512 indoor unit groups via one ITM and combine multiple ITM via web interface

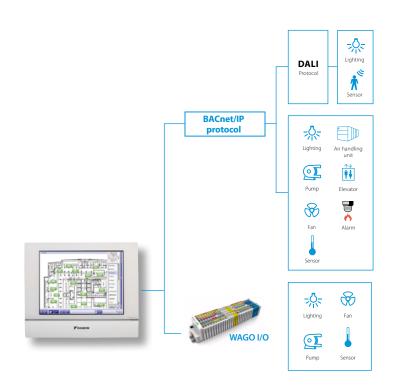
Easy servicing and commissioning

- Remote refrigerant containment check reducing on site visit
- > Simplified troubleshooting
- Save time on commissioning thanks to the pre-commissioning tool
- > Auto registration of indoor units









Functions overview

Languages

- > English
- > French
- > German
- > Italian
- > Spanish
- > Dutch
- > Portuguese

Management

- > Web access via html 5
- Power Proportional Distribution (option)
- Operational history (malfunctions, ...)
- > Smart energy management
 - monitor if energy use is according to plan
 - detect origins of energy waste
- > Setback function
- > Sliding temperature

WAGO Interface

- Modular integration of 3rd party equipment
- Large variety of input and outputs available. For more details refer to the options list

Open http interface

 Communication to any third party controller (domotics, BMS, etc.) is possible via http open interface (http option DCM007A51)

System layout

 Up to 512 unit groups can be controlled (ITM + 7 iTM Plus adapters)

Control

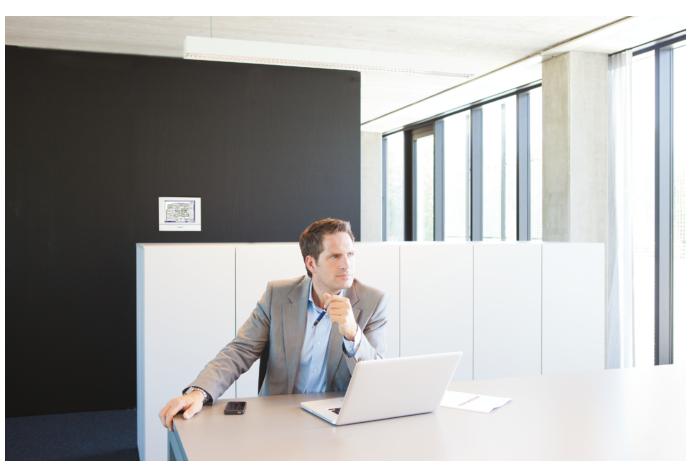
- Individual control (512 groups)
- Schedule setting (Weekly schedule, yearly calender, seasonal schedule)
- > Interlock control
- > Setpoint limitation
- > Temperature limit

DALI integration

- > Control and monitor the lights
- Easier facility management: receive error signal when light or light controller has a malfunction
- Flexible approach and less wiring needed, compared to classic light scheme
- Easier to make groups and control scenes
- Connection between intelligent Touch Manager and DALI through WAGO BACnet / IP interface

Connectable to

- DX Split, Sky Air, VRV
- HRV
- Chillers (via MT3-EKCMBACIP controller)
- Daikin AHU (via MT3-EKCMBACIP controller)
- Fan coils
- LT and HT hydroboxes
- Biddle Air curtains
- WAGO I/O
- BACnet/IP protocol
- Daikin PMS interface (option DCM010A51)



Centralised remote controller

Centralised control of the Sky Air and VRV system can be achieved via 2 user friendly compact remote controllers. These controls may be used independently or in combination with:

1 group = several (up to 16) indoor units in combination

1 zone = several groups in combination.

A centralised remote control is ideal for use in tenanted commercial buildings subject to random occupation, enabling indoor units to be classified in groups per tenant (zoning).

DCS302C51

Centralised remote control



Providing individual control of 64 groups (zones) of indoor units.

- > a maximum of 64 groups (128 indoor units, max. 10 outdoor units) can be controlled
- > a maximum of 128 groups (128 indoor units, max. 10 outdoor units) can be controlled via 2 centralised remote controls in separate locations
- > zone control
- > group control
- > malfunction code display
- > maximum wiring length of 1,000m (total: 2,000m)
- > air flow direction and air flow rate of HRV can be controlled
- > expanded timer function

DCS301B51

Unified ON/OFF control



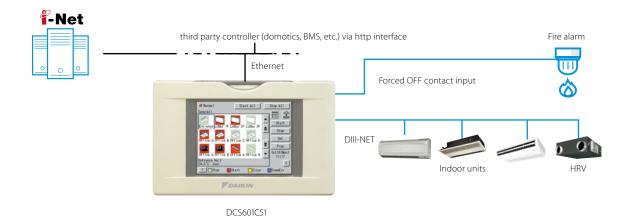
Providing simultaneous and individual control of 16 groups of indoor units.

- > a maximum of 16 groups (128 indoor units) can be controlled
- > 2 remote controls in separate locations can be used
- > operating status indication (normal operation, alarm)
- > centralised control indication
- > maximum wiring length of 1,000m (total: 2,000m)

DCS601C51



Detailed & easy monitoring and operation of VRV systems (max. 64 indoor units groups).



Languages

- > English
- > French
- › German
- > Italian
- > Spanish
- > Dutch
- > Portuguese

System layout

- Up to 64 indoor units can be controlled
- Touch panel (full colour LCD via icon display)

Control

- Individual control
 (set point, start/stop,
 fan speed)
 (max. 64 groups/indoor units)
- › Set back shedule
- > Enhanced scheduling function (8 schedules, 17 patterns)
- > Flexible grouping in zones
- > Yearly schedule
- > Fire emergency stop control
- > Interlocking control
- Increased HRV monitoring and control function
- Automatic cooling / heating change-over
- > Heating optimization
- > Temperature limit
- Password security: 3 levels (general, administration & service)
- Quick selection and full control
- > Simple navigation

Monitoring

- Visualisation via Graphical User Interface (GUI)
- Icon colour display change function
- > Indoor units operation mode
- > Indication filter replacement

Cost performance

- > Free cooling function
- > Labour saving
- > Easy installation
- Compact design: limited installation space
- > Overall energy saving

Open interface

 Communication to any third party controller (domotics, BMS, etc.) is possible via open interface (http option DCS007A51)

Connectable to

- > VRV
- > HRV
- > Sky Air
- > Split (via interface adapter)

Standard protocol interfaces

RTD

Modbus Interface

RTD-RA

 Modbus interface for monitoring and control of residential indoor units

RTD-NET

Modbus interface for monitoring and control of Sky Air, VRV, VAM and VKM

RTD-10

- Advanced integration into BMS of Sky Air, VRV, VAM and VKM through either:
 - Modbus
- Voltage (0-10V)
- Resistance
- > Duty/standby function for server rooms

RTD-20

- > Advanced control of Sky Air, VRV, VAM/VKM and air curtains
- > Clone or independent zone control
- > Increased comfort with integration of CO₂ sensor for fresh air volume control
- > Save on running costs via
 - pre/post and trade mode
 - set point limitation
 - overall shut down
 - PIR sensor for adaptive deadband

RTD-HO

- Modbus interface for monitoring and control of Sky Air, VRV, VAM and VKM
- > Intelligent hotel room controller

RTD-W

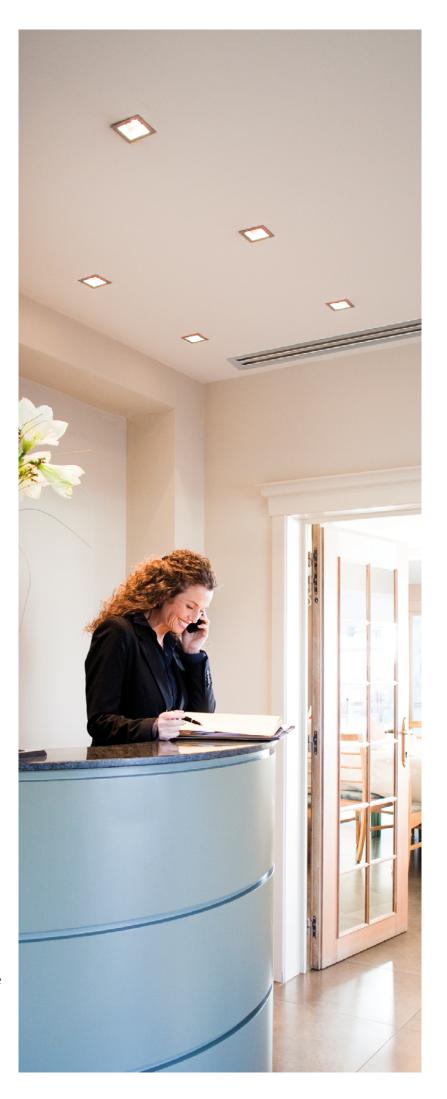
Modbus interface for monitoring and control of Daikin Altherma Flex Type, VRV HT hydrobox and small inverter chiller

DCOM-LT/MB

 Modbus interface of Daikin Altherma air-to-water heat pumps, hybrid heat pumps and ground source heat pumps

DCOM/LT-IO

> Voltage & resistance control in addition to Modbus



Overview functions











Main functions	RTD-RA	RTD-NET	RTD-10	RTD-20	RTD-HO
Dimensions H x W x D mm	80 x 80 x 37.5		100 x1	00 x 22	
Key card + window contact					✓
Set back function	✓				✓
Prohibit or restrict remote control functions (setpoint limitation,)	✓	✓	✓	√*°	✓
Modbus (RS485)	✓	✓	✓	✓	✓
Group control	(1)	✓	✓	✓	✓
0 - 10 V control			✓	✓	
Resistance control			✓	✓	
IT application	✓		✓		
Heating interlock			✓	✓	
Output signal (on/defrost, error)			✓	√ ****	✓
Retail application				✓	
Partitioned room control				✓	
Air curtain		V***	√ ***	✓	

(1): By combining RTD-RA devices

Control functions	RTD-RA	RTD-NET	RTD-10	RTD-20	RTD-HO
On/Off	M,C	M	M,V,R	M	M*
Set point	M	M	M,V,R	M	M*
Mode	M	M	M,V,R	M	M*
Fan	M	M	M,V,R	M	M*
Louver	M	M	M,V,R	M	M*
HRV Damper control		M	M,V,R	M	
Prohibit/Restrict functions	M	M	M,V,R	M	M*
Forced thermo off	M				

Monitoring functions	RTD-RA	RTD-NET	RTD-10	RTD-20	RTD-HO
On/Off	M	M	M	М	М
Set point	M	M	M	M	M
Mode	M	M	M	M	M
Fan	M	M	M	M	M
Louver	M	M	M	M	M
RC temperature		M	M	M	M
RC mode		M	M	M	M
N° of units		M	M	M	M
Fault	M	M	M	M	M
Fault code	M	M	M	M	M
Return air temperature (Average /Min/Max)	M	M	M	M	M
Filter alarm		M	M	M	M
Termo on	M	M	M	M	M
Defrost		M	M	M	M
Coil In/Out temperature	M	M	M	M	M



Main functions			RTD-W
Dimensions	HxWxD	mm	100x100x22
On/off prohibition			✓
Modbus RS485			✓
Dry contact control			✓
Output signal (operation error)			✓
Space heating / cooling operation			✓
Domestic hot water control			✓
Smart Grid control			

Control functions	
On/Off Space heating/cooling	M,C
Set point leaving water temperature (heating / cooling)	M,V
Room temperature setpoint	M
Operation mode	M
Domestic Hot water ON	
Domestic Hot Water reheat	M,C
Domestic Hot Water reheat setpoint	
Domestic Hot Water storage	M
Domestic Hot Water Booster setpoint	
Quiet mode	M,C
Weather dependent setpoint enable	M
Weather dependent curve shift	M
Fault/pump info relay choice	
Control source prohibition	M

Smart grid mode control	
Prohibit Space heating/cooling	
Prohibit DHW	
Prohibit Electric heaters	
Prohibit All operation	
PV available for storage	
Powerful boost	

toring functions	
On/Off Space heating/cooling	• M.C
Set point leaving water temperature (H/C)	• M
Room temperature setpoint	• M
Operation mode	• M
Domestic Hot Water reheat	• M
Domestic Hot Water storage	• M
Number of units in the group	• M
Average leaving water temperature	• M
Remocon room temperature	• M
Fault	• M,C
Fault code	• M
Circulation pump operation	• M
low rate	
Solar pump operation	
Compressor status	• M
Desinfection operation	• M
Setback operation	• M
Defrost/ start up	• M
Hot start	
Booster Heater operation	
3-Way valve status	
Pump running hours accumulated	• M
Compressor running hours accumulated	
Actual leaving water temperature	• M
Actual return water temperature	• M
Actual DHW tank temperature (*)	• M
Actual refrigerant temperature	
Actual outdoor temperature	• M

- $\begin{array}{ll} M: Modbus \ / \ R: Resistance \ / \ V: Voltage \ / \ C: control \\ *: only \ when \ room \ is \ occupied \ / \ **: \ setpoint \ limitation \ / \ (*) \ if \ available \\ ***: \ no \ fan \ speed \ control \ on \ the \ CYV \ air \ curtain \ / \ ***: \ run \ & \ fault \end{array}$

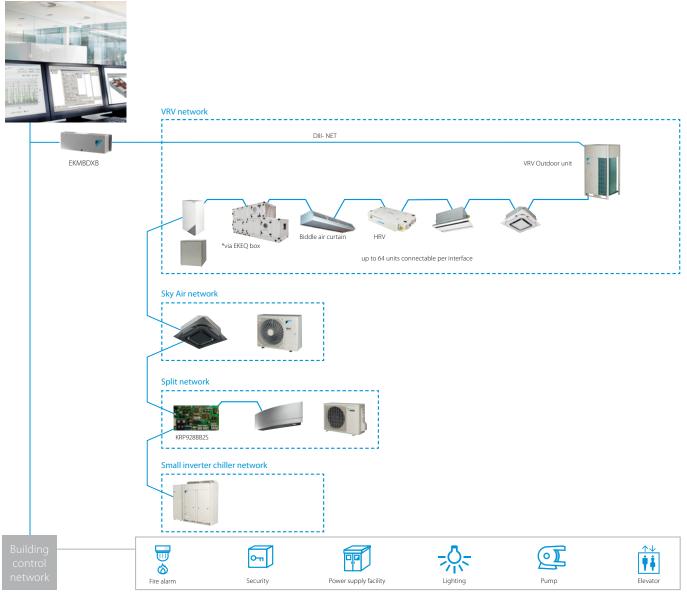
EKMBDXB

DIII-net Modbus interface

Integrated control system for seamless connection between Split, Sky Air, VRV and small inverter chillers and BMS systems

- > Communication via Modbus RS485 protocol
- > Detailed monitoring and control of the VRV total solution
- > Easy and fast installation via DIII-net protocol
- > As the Daikin DIII-net protocol is being used, only one modbus interface is needed for a group of Daikin systems (up to 10 outdoor units systems).



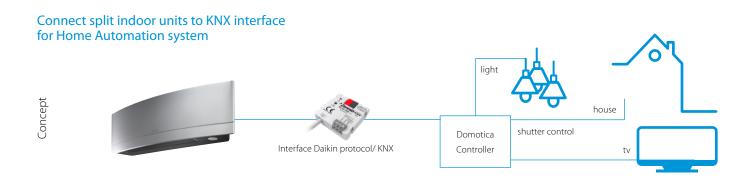


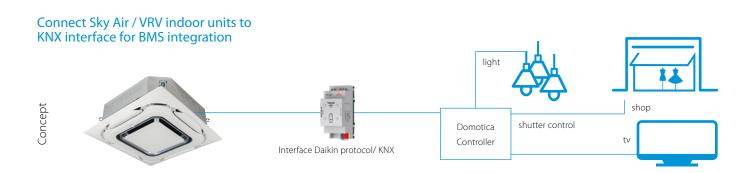
			EKMBDXB7V1
Maximum number of connectable indoor units			64
Maximum number of connectable outdoor units			10
Communication	DIII-NET - Remark		DIII-NET (F1F2)
	Protocol - Remark		2 wire; communication speed: 9600 bps or 19200 bps
	Protocol - Type		RS485 (modbus)
	Protocol - Max. Wiring length	m	500
Dimensions	HeightxWidthxDepth	mm	124x379x87
Weight	k		2.1
Ambient temperature - operation	Max.	°C	60
	Min.	°C	0
Installation			Indoor installation
Power supply	Frequency	Hz	50
	Voltage	V	220-240

KLIC-DDV3 KLIC-DI_V2

KNX interface

Integration of Split, Sky Air and VRV in HA/BMS systems





KNX interface line-up

The integration of Daikin indoor units through the KNX interface allows monitoring and control of several devices, such as lights and shutters, from one central controller. One particularly important feature is the ability to programme a 'scene'

- such as "Home leave" - in which the end-user selects a range of commands to be executed simultaneously once the scenario is selected. For instance in "Home leave", the air conditioner is off, the lights are turned off, the shutters are closed and the alarm is on.

KNX interface for KLIC-DDV3 size 45x45x15mm KLIC-DI_V2 size 90x60x35mm Split Sky Air Basic control On/Off Mode Auto, heat, dry, fan, cool Auto, heat, dry, fan, cool Auto, heat, dry, fan, cool Temperature Fan speed levels 3 or 5 + auto 2 or 3 2 or 3 Stop or movement Swing or fixed positions (5) Stop or movement Advanced functionalities Error management Communication errors, Daikin unit errors Scenes Auto switch off Temperature limitation Initial configuration Master and slave configuration

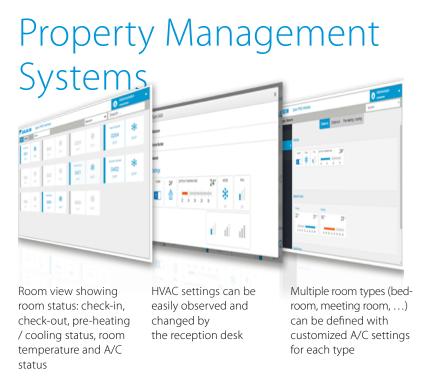
DCM010A51

PMS Interface

Hotel interface connecting Daikin HVAC with Oracle

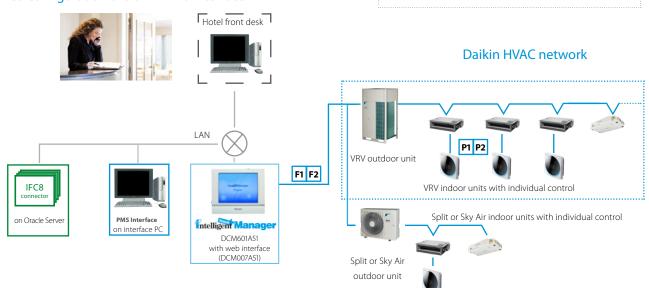
Features

- User-friendly interface for easy front desk support in hotels, conference centers, ...
- Compatible with Oracle Opera PMS (formerly known as Micros Fidelio)
- Automated push of indoor unit settings based on the Opera PMS Check-In and Check-Out commands
- Energy saving thanks to the possibility to limit temperature setpoint
- Up to 5 customized operation profiles based on weather conditions
- Available in 23 languages
- Up to 2,500 units / rooms can be managed



Hotel case example: • On check-in the HVAC for the room is automatically switched on • On check-out the HVAC for the room is automatically switched off. • Increased hotel customer experience by pre-heating / cooling of booked rooms Hotel front desk Check-in Check-out Check-in Check-out Check-in Check-out Check-in Check-out Check-in

Simplified configuration of Daikin PMS interface

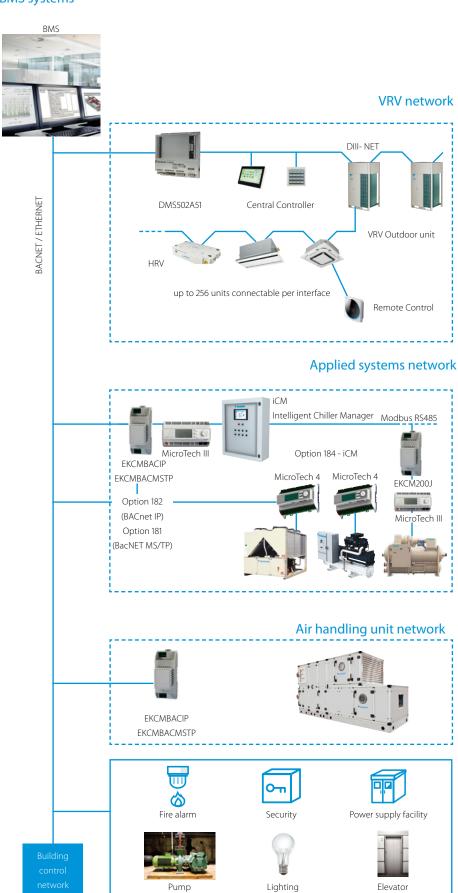


DMS502A51 / EKACBACMSTP / EKCMBACIP / EKCMBACMSTP

BACnet Interface

Integrated control system for seamless connection between VRV, applied systems, air handling units and BMS systems

- > Interface for BMS system
- Communication via BACnet protocol (connection via Ethernet)
- > Unlimited site size
- > Easy and fast installation
- > PPD data is available on BMS system (only for VRV)

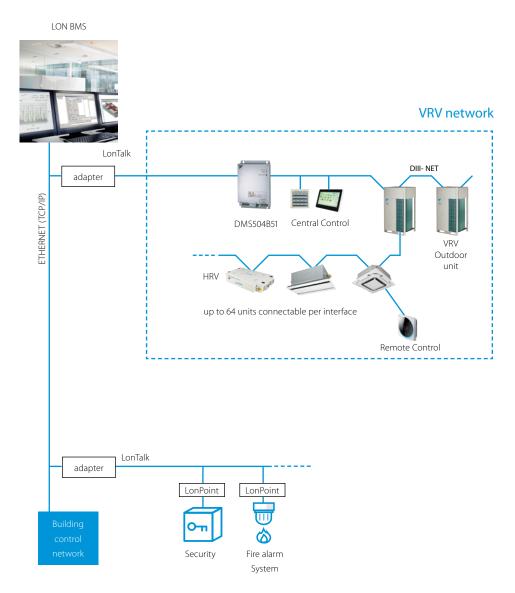


DMS504B51

LonWorks Interface

Open network integration of VRV monitoring and control functions into LonWorks networks

- Interface for Lon connection to LonWorks networks
- Communication via Lon protocol (twisted pair wire)
- > Unlimited sitesize
- > Quick and easy installation



EKPCCAB4

Daikin Configurator Tool + Software

Simplified commissioning: graphical interface to configure, commission and upload system settings

Simplified commissioning

The Daikin configurator for Daikin Altherma and VRV is an advanced software solution that allows for easy system configuration and commissioning:

- > Less time is required on the roof configuring the outdoor unit
- Multiple systems at different sites can be managed in exactly the same way, thus offering simplified commissioning for key accounts
- Initial settings on the outdoor unit can be easily retrieved







Retrieve initial system settings







Daikin Cloud Service to achieve optimal operation (DAIKIN)

Daikin Cloud Service is a cloud-based remote control and monitoring solution for DX systems. Using enhanced control, monitoring and predictive logic, Daikin Cloud Service provides real-time data and support from Daikin experts to help you identify cost-saving opportunities, increase the lifetime of your equipment and reduce the risk of unexpected issues.

Monitor & control* your system no matter where you are while teaming up with Daikin experts

Remote control and energy visualisation

Puts you in the driving seat of your energy management

- ✓ Control and monitor your premises, wherever you are
- ✓ Centralised control and monitoring of all your premises
- ✓ Check errors remotely without having to go on site
- ✓ Visualise energy consumption and reduce energy waste by comparing different premises
- ✓ Graphical visualization of IEQ parameters (frequency day, week, month, year)
- ▼ Export & print IEQ parameters

Multi-site monitoring

From one to an ∞ number of sites



Remote support and diagnostics

Daikin specialist supervision, so you can focus on your core business

- ☑ Early warning of system deviations to maximise system uptime and avoid emergency repairs**
- Service providers have access to operational data so they arrive on site prepared
- ✓ Remote expert assistance in case of errors



Advice and optimisation

Get the best out of your system through expert advice

✓ Periodical analysis and optimisation report by experts

Personalised actions to maximise energy efficiency and comfort

✓ Increased system lifetime as the system runs as it should

Daikin Cloud Service requires a subscription. Contact your local sales representative for more information.

^{*} Remote Control function via Daikin Cloud Service only available for sites with an Intelligent Tablet controller

^{**} Only available for VRV systems

Daikin Cloud Service packages	Control and monitoring	Remote support and diagnostics	Advice and optimisation	
Remote control, scheduling and interlocking	(DCC601A51 only)	(DCC601A51 only)	(DCC601A51 only)	
Energy monitoring	✓	✓	✓	
Multi-site benchmark	✓	✓	✓	
Alarm history and e-mail notifications**	Х	✓	✓	
Predictions and e-mail notifications**	Х	✓	✓	
Operational data access	Х	✓	✓	
Indoor use analysis	Х	✓	✓	
Outdoor use analysis	Х	✓	✓	
Remote diagnostic and support from Daikin	Х	✓	✓	
Periodical analysis and optimisation advice from Daikin	Х	X	✓	
Can be combined with maintenance programmes: - Technical inspection - Preventive Maintenance Plan - Comprehensive Maintenance Plan	Х	×	√	

Packages subject to local availability
Daikin Cloud Service replaces VRV Cloud and i-Net services.

Flexible solution

Manage your premises according to your needs, using a local control or remotely via Daikin Cloud Service, or a combination of both.

Control*, no matter where you are

Daikin Cloud Service gives you full control of one or more premises wherever you are, using your PC, tablet or smartphone.

Predictive logic for VRV to prevent breakdowns

The operational data is continuously analysed by Daikin algorithms to predict potential failures and avoid unexpected costs.

Compatible with:

- > Intelligent Tablet Controller (DCC601A51)
- > Intelligent Touch Manager (DCM601A51) + IoT gateway
- > LC8 + IoT gateway



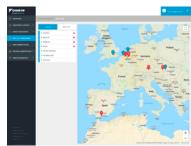
1. Clear dashboard overview



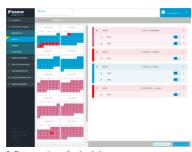
4. Energy management and consumption follow up



2. Monitor and control your system



5. Multi site management



3. Easy setting of schedules



IEQ dashboard on DCS

 $^{{}^{*}\}operatorname{Remote Control function via Daikin Cloud Service only available for sites with an Intelligent Tablet controller}$

^{**} Only available for VRV systems

K.RSS

Wireless room temperature sensor

Flexible and easy installation

- > Accurate temperature measurement thanks to flexible placement of the sensor
- > No need for wiring
- > No need to drill holes
- > Ideal for refurbishment



Connection diagram Daikin indoor unit PCB (FXSQ example)



Specifications

			Wireless room temperature sensor kit (K.RSS)		
			Wireless room temperature receiver	Wireless room temperature sensor	
Dimensions		mm	50 x 50	ø 75	
Weight		g	40	60	
Power supply			16VDC, max. 20 mA	N/A	
Battery life			N/A	+/- 3 years	
Battery type			N/A	3 Volt Lithium battery	
Maximum range		m	10	0	
Operation range		°C	0~50		
Type			RF		
Communication	Frequency	MHz	868.3		

 ${\scriptstyle >}\ Room\ temperature\ is\ sent\ to\ the\ indoor\ unit\ every\ 90\ seconds\ or\ if\ the\ temperature\ difference\ is\ 0.2^{\circ}C\ or\ larger.$

KRCS*

Wired room temperature sensor

- Accurate temperature measurement, thanks to flexible placement of the sensor
- Specific model code for each indoor unit can be found in the option tables



Specifications

Dimensions (HxW)	mm	60 x 50
Weight	g	300
Length of branch wiring	m	12

ADAPTER PCBs

Simple solutions for unique requirements

Concept and benefits

> Low cost opti	on to satisfy simple c	ontrol	Co	nnectable	to:
requirements Deployed on	single or multiple un	its	Split	Sky Air	VRV
	(E) KRP1B* adapter for wiring	Facilitates integration of auxiliary heating apparatus, humidifiers, fans, damper Powered by and installed at the indoor unit		•	•
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	KRP2A*/KRP4A* Wiring adapter for electrical appendices	 Remotely start and stop up to 16 indoor units (1 group) (KRP4A* via P1 P2) Remotely start and stop up to 128 indoor units (64 groups) (KRP2A* via F1 F2) Alarm indication/ fire shut down Remote temperature setpoint adjustment Cannot be used in combination with a central controller 		•	•
	SB.KRP58M2	 Low noise and demand control option for RZAG-N* and RZASG-M* series. Obligatory mounted plate EKMKSA2 needs to be ordered separately 		•	
d seeses	KRP58M51	 Low noise and demand control option for RZA-D series. Includes obligatory mounted plate EKMKSA3 Obligatory mounting plate EKMKSA3 needs to be ordered separately 		•	
	DTA104A* Outdoor Unit External Control Adapter	 Individual or simultaneous control of VRV system operating mode Demand control of individual or multiple systems Low noise option for individual or multiple systems 			•
and and a	DC5302A52-9 Unification adapter for computerized control	 Enables unified display (operation/malfunction) and unified control (ON/OFF) from BMS system Must be used together with Intelligent Touch Controller or intelligent Touch Manager Cannot be combined with KRP2/4* Can be used for all VRV indoor models 			•
	KRP928* Interface adapter for DIII-net	› Allows integration of split units to Daikin central controls	•		
	KRP980* Adapter for split units without an S21 port	> Connect a wired remote control > Connect to Daikin central controls > Allow external contact	•		
	KRP413* Wiring adapter normal open contact / normal open pulse contact	> Switch off auto restart after power failure > Indication of operation mode / error > Remotely start /stop > Remotely change operation mode > Remotely change fan speed	•		

Some adapters require an installation box, refer to the option lists for more information

Accessories

EKRORO	0	> External ON/OFF or forced off > Example: door or window contact
EKRORO 3		> External ON/OFF or forced off > F1/F2 contact > Example: door or window contact
KRC19-26A		 Mechanical cool/heat selector Allows switching over an entire system between cooling/heating/fan only Connects to the A/B/C terminals of the unit
BRP2A81	EBRISON (A)	> Cool/heat selector PCB > Required to connect KRC19-26A to a VRV IV outdoor unit

Individual and centralised controls

	BRC1D*	BRC1E*	BRC1H*	DCS301B51	DST301B51	DCS302C51	DCS601C51
Madoka Assistant app for advanced settings			•				
Electical box KJB111A	•	•	•				
Electical box KJB212A(A) (1)	•	•		•	•		
Electical box KJB311A(A)						•	
Electical box KJB411AA							•

⁽¹⁾ recommended as wider (more stable mounting)

Intelligent Tablet Controller - DCC601A51

		intelligent Controller		
		Options for local control	Daikin Cloud Service options	Software
Wired screen for local control	AL-CCD07-VESA-1	•	-	_
Control and monitoring package		-	•	_
Remote support and diagnostics package		-	•	_
Advise and optimisation package		-	•	-
Commissioning tool		-	-	•
Software update tool		-	-	•

Daikin Cloud Service requires a subscription. Contact your local sales representative for more information

Standard protocol interfaces - DMS502A51

		BACnet Interface
DIII-net expansion board (2 ports), connects up to 128 additional indoor units	DAM411B51	•
Digital pulse inputs (12) for PPD functionality	DAM412B51	•

Intelligent Touch Manager - DCM601A51

		Intelligent Manager	Daikin Cloud Service options (2)
iTM plus adapter – Allows connection of an additional 64 indoor units/groups. Up to 7 adapters can be connected	DCM601A52	•	
iTM PPD software – Allows distribution of used kWh by indoor units connected to the iTM	DCM002A51	•	
iTM HTTP interface - Allows communication to any third party controller via http interface	DCM007A51	•	
iTM Energy navigator – Energy management option	DCM008A51	•	
iTM BACnet Client option – Enables integration of third party devices to the iTM via the BACnet/IP protocol. (This is not a gateway and cannot replace DMS502A51)	DCM009A51	•	
Property Management System (PMS) interface option - Enables to connect to third party PMS systems	DCM010A51	Oracle Opera PMS	
Monitoring package			•
Remote support and diagnostics package			•
Advise and optimisation package			•

WAGO interface options for intelligent Touch Manager

Required or optional WAGO base modules

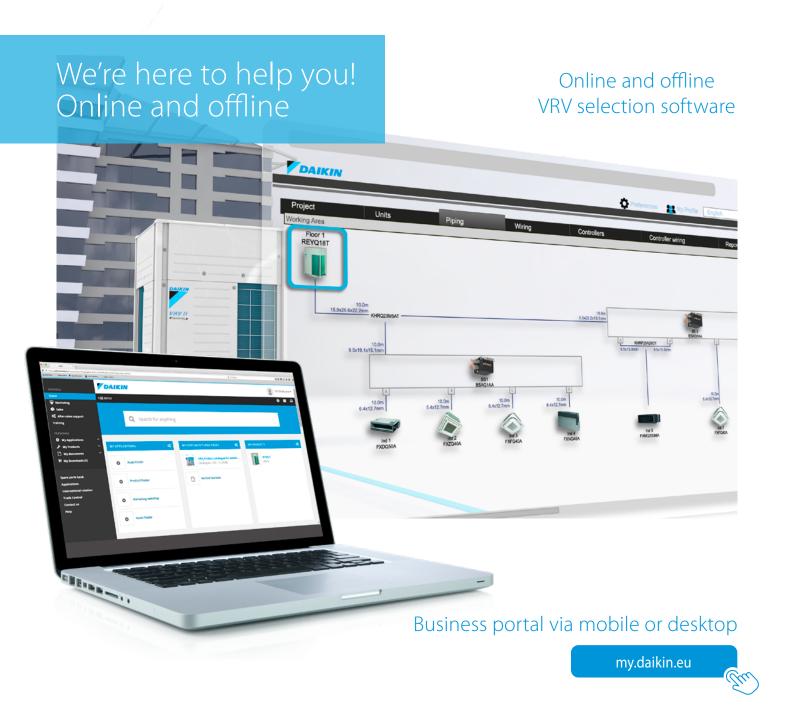
Module type	Model code	Specifications	
24 V DC power supply	787-712	100 to 240 V AC —> 24 V DC, 2.5 A	Required
Communications unit (Bus coupler)	WGDCMCPLR2	RS-485, Max:115.2kbps, not programmable	Required
Connector (1)	750-960		Required
Terminator module	750-600		Required
Power supply module	750-613	IN: 24 V DC, OUT: 5 V DC	Optional

Supported WAGO I/O modules

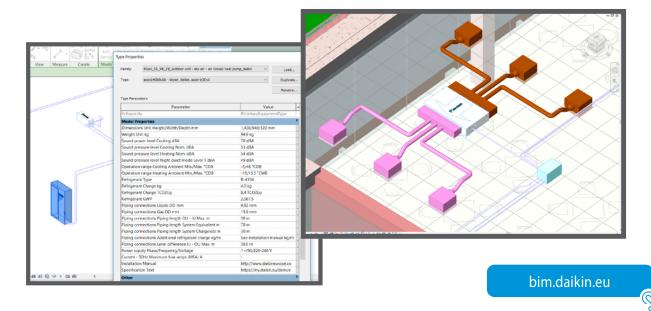
I/0 module type	Model code	Specifications	N° of contacts
	750-400	No-voltage contact input	2
Di	750-432	Contact rating: 24 V DC / 4.5 mA"	4
	750-430	No-voltage contact input Contact rating: 24 V DC / 2.8 mA	8
D.	750-513/000-001	No-voltage contact output Contact rating: 230 V AC / 30 V DC, 2 A	2
Do	750-504	No-voltage contact output Contact rating: 24 V DC / 0.5 A	4
	750-454	0	2
	750-455	Rated at 4 to 20 mA: 12-bit resolution	4
Ai	750-479	Rated at –10 to 10 V: 13-bit resolution	2
	750-459	Rated at 0 to 10 V: 12-bit resolution	4
	750-554	Detect of Ann 20 and 12 his appropriate	2
Λ -	750-555	Rated at 4 to 20 mA: 12-bit resolution	4
Ao	750-560	Rated at -10 to 10 V: 10-bit resolution	2
	750-559	Rated at 0 to 10 V: 12-bit resolution	4
	750-461/020-000	NTC20K thermistor	2
	750-461	D: 100 /DTD	2
	750-460	Pt 100/RTD	4
Thermistor	750-461/000-003	D+ 1000 /DTD	2
rnermistor	750-460/000-003	Pt 1000/RTD	4
	50-461/000-004	Ni 100/RTD	2
	750-461/000-005	N:1000 TV:100 /DTD	2
	750-460/000-005	Ni1000 TK6180/RTD	4
Pi	750-638	Minimum pulse width: 1 ms	2

⁽¹⁾ This connector must be attached to a communications unit that is connected to the RS485 port (2-pin) of the iTM unit.

 ⁽²⁾ To connect intelligent Touch Manager to the Daikin Cloud Service, the loT gateway (EU.SB.5000072) and AC/DC converter (999175A) is needed.



Full BIM object library available



Tools

& platforms

Tools & platforms	221
Literature overview	222
Supporting tools, software and apps	224
30 years of history	228

Literature overview

for professional network

Solutions catalogues:

Reference books:



Reference catalogue Daikin commercial and industrial references

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Product profiles:



VRV IV S-series Main benefits, application examples and specs of VRV IV S-series product range



VRV IV i-series Main benefits, application examples and specs of VRV IV i-series product range

207



gmug VRV IV W-series, application examples, technical system design background 209

Water-to-air heat



VRV5 S-Series VRV 5 Main benefits and specs of VRV 5

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Focus topics:



Replacement Technolog Clear installer benefits of VRV replacement technology

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Infrastructure cooling Clear installer benefits why to choose Daikin for infrastructure cooling

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F-gas regulation Details on the F-gas regulation and how Daikin is prepared for the future HVAC-R market



L∞P by Daikin Detailed info on L∞P by Daikin where reclaimed refrigerant is reused

223

Product flyers:



Mini Sky Air RZAG-A mini Skv Air Alpha-series Main benefits and specs of RZAG-A 146



Low height Sky RZAG-N* Sky Air Alpha-series Main benefits and specs of the low height RZAG-N* 147



Low height large Sky RZA-D Sky Air Advance-series Main benefits and specs of the low height . RZA-D* series

Detailed info on BRC1H* control

306

Madoka

remote



RTD modbus interface Detailed info on RTD controls and applications

Product catalogues:



Sky Air Catalogue Detailed technical information & benefits on Sky Air 100



VRV Catalogue Detailed technical information & benefits of the VRV total solution

200

Ventilation Detailed info on Ventilation products

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for your customers

Solutions catalogues:



Commercial Solutions
Daikin offers solutions for commercial applications 100



Green Building Solutions Clear building owner/

investor benefits why to choose Daikin for a green building, with emphasis on BREEAM

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Hotel Solutions Clear building owner/investor benefits why to choose Daikin for a hotel

Reference books:



Success Case study Vandervalk hotel case In depth info on the VRV total solution at a Vandervalk hotel

Product profiles:



Intelligent Touch Manager Intelligent Touch Manager



Intelligent Tablet Controller Detailed benefits of Intelligent Tablet Controller

303



Focus topics:



Replacement technology Clear building owner/investor benefits of replacement technology

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Technical documentation:
Download all technical documentation such as engineering databooks, selection software, installation and operation manuals and service manuals directly from our business portal: my.daikin.eu

Supporting tools, software and apps

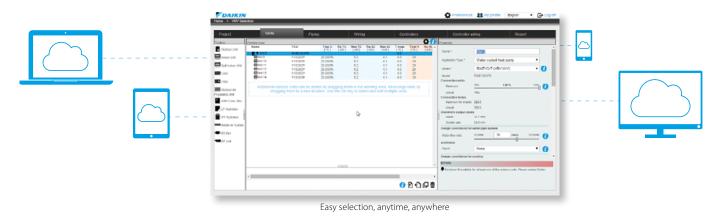
www.daikineurope.com/ support-and-manuals/ software-downloads

Eu

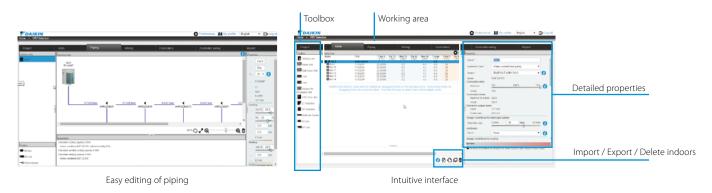
Web based Xpress selection software

Making selection easy, anythime, anywhere

- > Web & cloudbased, access to your projects from anywhere, anyplace...
- > Platform (Windows, Mac, ...) and hardware (laptop, desktop, tablet) independent
- > Re-engineered GUI for maximum easy of use
- > No need to do local installation
- No tool updates required (always latest version available)
- > Possibility to copy / share projects



Main functions





Clear wiring overview, easy to make control groups



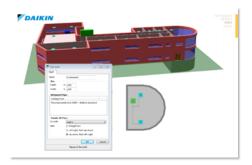
Clear overview of control groups and central controls

Other selection software

VRV Pro

Enables VRV air conditioning systems to be engineered in a precise and economical way, taking into account the complex piping rules. Moreover, it ensures optimum operating cycles and maximum energy efficiency.

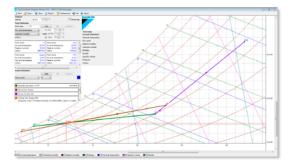
- > Accurate heat load calculation
- > Precize selection based on peak loads
- > Energy consumption indication



Ventilation Xpress

Selection tool for ventilation devices (VAM, VKM). The selection is based on given supply/extract airflows (including fresh up and given ESP of supply/extract ducting:

- > Determines size of electrical heaters
- > Visualisation of psychrometric chart
- > Visualisation of selected configuration
- > Required field settings mentioned in the report



Webbased ASTRA selection for air handling units

A powerful tool to select the right Air Handling Units for your needs.

- > 3D interface
- > quick selection procedures
- > new print-out possibilities and report shapes



WAGO selection tool

The WAGO Selection Tool is specifically designed to select the optimal WAGO I/O system for your needs.

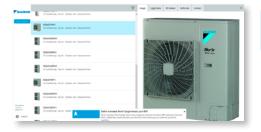
- > Easy selection of WAGO materials
- > Material list creation
- > Time saving
- Includes wiring schemes
- Contains commissioning/preset data for



Plugins and third-party software tools

Building Information Modelling (BIM) support

- > BIM improves efficiency of design and build phase
- Daikin is among the first to supply a full library of BIM objects for its VRV products



www.daikin.eu/ bim



- Displays VRV pipe design on a Autocad 2D floorplan
- > Improves project management
- Accurately calculates the pipe dimensions and refreets
- > Determines the outdoor unit size
- > Validates VRV pipe rules
- Accounts for the extra refrigerant charge, including a max room concentration check



http://www. daikineurope. com/autocad/ index.jsp



Energy simulation and design aid tools

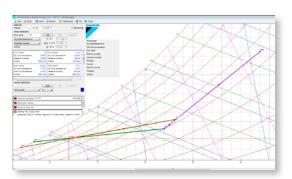
Seasonal simulator

- The Seasonal Simulator is an innovative software tool that calculates and compares potential seasonal efficiency ratings.
- This user-friendly tool compares various Daikin systems, annual power consumption, CO₂ emissions, and much more, to present an accurate ROI calculation in a matter of minutes.



Psychrometrics diagram **NEW**

- > The Psychrometrics Diagram Viewer demonstrates the changing properties of moist air.
- > With this tool, users can choose two points with specific conditions, plot them on the diagram and select actions to change the conditions, i.e. heat, cool and mix air.



Software service tools

Error code app

Quickly know the meaning of fault codes, for each product family and the potential cause

D-Checker

D-checker is a software application used to record and monitor operation data of Daikin applied, split, Multi-split, Sky-air units, Daikin Altherma LT, ground source heat pump, Hybrid, ZEAS, Conveni-pack & R410A Booster unit

Bluetooth adaptor **NEW**

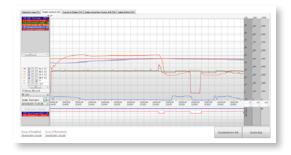
Monitoring of Split, Sky Air and VRV data via any bluetooth device

- > No need to access the outdoor unit
- Connects with D-Checker software (for laptops)
- Connects with monitoring app (for tablets or smartphones)

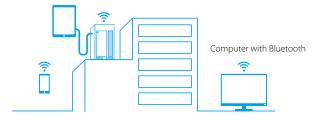
VRV Service-Checker

- Connected via F1/F2 bus to check multiple systems at the same time
- > Connection of external pressure sensors possible





Diagnosis of the Bluetooth system possible:



Online support

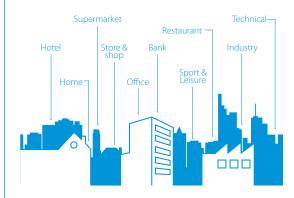
Business portal

- > Experience our new extranet that thinks with you at my.daikin.eu
- > Find information in seconds via a powerful search
- > Customise the options so you see only info relevant for you
- > Access via mobile device or desktop

AT THE OFFICE

Internet

Find our solution for different applications:



- Get more commercial details on our flagship products via our dedicated minisites
- > See our references



www.daikineurope.com/references



Over 30 years of VRV History



R-22

1987

Introduction the original VRV air conditioning system to Europe, invented by Daikin in 1982

> Up to 6 indoor units connected to 1 outdoor unit



R-407C

1998

Launch inverter series with R-407C

> Up to 16 indoor units connected to 1 outdoor unit



2004

Expand to light commercial sector with VRVII-S

- > Available in 4, 5, 6HP capacities
- > 1 system can be installed in up to 9 rooms



2008

Launch of heat pump optimised for heating (VRV III-C)

- > Extended operation down to -25C
- > 2-stage compressor systems

Introduce VRV heat

> Simultaneous cooling



2003

Introduce VRVII-- the first R-410A **VRF** system

Available in cooling, heat pump and heat recovery

> 40 units connected to single refrigerant circuit



Extends VRVII inverter range with water cooled VRV-WIII

> Available in heat pump and heat

recovery



2006-2007

Launch the extensively re-engineered VRVIII

- > Available in cooling, heat pump and heat recovery
- > Automatic charging and testing
- > Up to 64 units connected to 1 system



1991

recovery

and heating



R-410A









2015

Launch of VRV IV S-series

- > Most compact unit in the market
- > Widest range in the market



Launch of VRV IV i-series

- > The invisible VRV
- > Unique product concept





2019

Launch of VRV IV+ series

- > New compressor for increased seasonal efficiency
- > Available in heat recovery, heat pump, optimised for heating and water-cooled versions

BLUEVOLUTION



2020

VRV 5 S-series

- > Completely redesign unit for R-32 refrigerant
- > Easier to handle and more flexible to install then ever!



2011

Launch total solution concept

- > Integrate hot water production and Biddle air curtains into VRV system
- > Connectable to Daikin Emura and Nexura
- > 400,000 outdoors units sold
- > 2.2 million indoor units sold

2012

2015 | 2019

2010

Launch of replacement VRV (VRVIII-Q)

> Upgrade to replace older VRV units using R-22 refrigerant



2012-2014

Setting new standards with the launch of VRV IV

- > 28% improved seasonal efficiency
- > Continuous heating on heat pumps
- > Available in heat pump, heat recovery, water-cooled and replacement series





2019

Launch of L∞P by Daikin

- > Re-use of existing refrigerant
- > Creating a circular economy of refrigerants





Technical

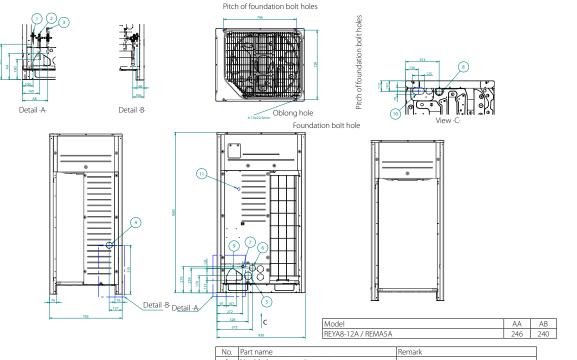
drawings

Technical drawings	231
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Hot water	314
Biddle air curtains	319
Ventilation	322





REYA8-12A / REMA5A



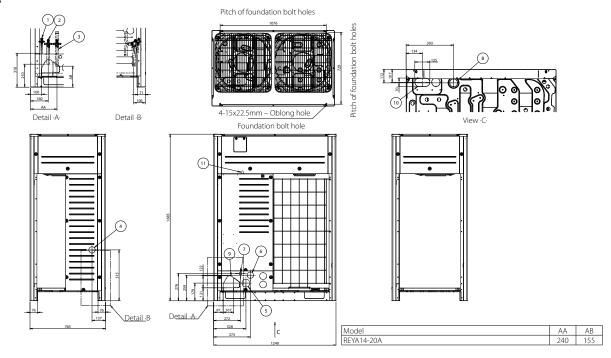
- 1. Detail -A- and detail -B- indicate the dimensions after fixing the attached piping. 2. Items -4 $\,$ 10: Knockout hole.

Items 4 – 10. Knockout noie.	
. Gas pipe	
REYA8-10A, REMA5A	Ø 19.1
REYA12A	Ø 22.2
Liquid pipe	
REYA8-10A, REMA5A	Ø 9.52
REYA12A	Ø 12.7
High pressure/low pressure gas pipe	
REYA8-10A, REMA5A	Ø 15.9
REYA12A	Ø 19.1

No.	Part name	Remark
1	Liquid pipe connection port	
2	Gas pipe connection port	See note ·3·.
3	Equalising pipe connection port High pressure/low pressure gas pipe	See note ·3·. See note ·3·.
4	Power cord routing hole (side)	Ø65
5	Power cord routing hole (front)	Ø80
6	Power cord routing hole (front)	Ø65
7	Power cord routing hole (front)	Ø27
8	Power cord routing hole (bottom)	Ø65
9	Pipe routing hole (front)	Inside of the switch box (·M8·)
10	Pipe routing hole (bottom)	
11	Grounding terminal	

2D119001

REYA14-20A



NOTES

1. Detail A and detail B indicate the dimensions after fixing the attached piping.1. 2. Items 4-10: Knockout hole.

Gas pipe	
REYA14-18A	Ø 22.2
REYA20A	Ø 28.6
Liquid pipe	
REYA14-20A	Ø 12.7
High pressure/low pressure gas pipe	
REYA14-18A	Ø 19.1
REYA20A	Ø 22.2

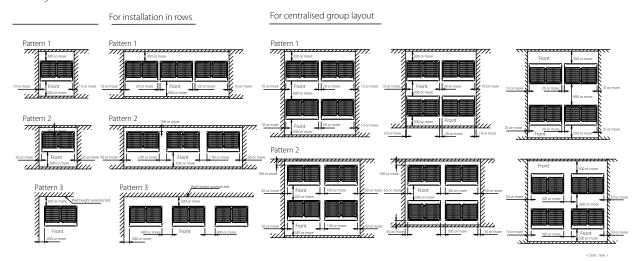
No.	Part name	Remark
1	Liquid pipe connection port	
2	Gas pipe connection port	See note 3.
3	Equalising pipe connection port High pressure/low pressure gas pipe	See note 3.
4	Power cord routing hole (side)	Ø65
5	Power cord routing hole (front)	Ø80
6	Power cord routing hole (front)	Ø65
7	Power cord routing hole (front)	Ø27
8	Power cord routing hole (bottom)	Ø65
9	Pipe routing hole (front)	Inside of the switch box (M8)
10	Pipe routing hole (bottom)	
11	Grounding terminal	

2D119091

CLICK HERE TO VIEW ALL REYA-A TECHNICAL DRAWINGS ON MY.DAIKIN.EU

REYA-A / REMA-A

For single unit installation



NOTES

1. Height of the walls in case of patterns 1 and 2: Front: 1500mm Suction side: 500mm Side: height unrestricted

The installation space shown on this drawing is based on cooling operation at 35 $^{\circ}\text{C}$ (outdoor temperature).

When the design outdoor ambient temperature exceeds 35°C or the load exceeds maximum ability of much generation load of heat in all outdoor unit, make sure the suction-side space is broader than the space shown on this drawing.

 $2. \ If the walls are higher than mentioned above, then additional service space is needed:\\$

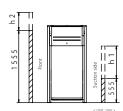
- suction side: service space + h1/2 - front side: service space + h2/2

3. When installing the units, select the pattern that best fits the available space.

Always keep in mind to leave sufficient space for a person to pass between unit and wall and for the air to circulate freely.

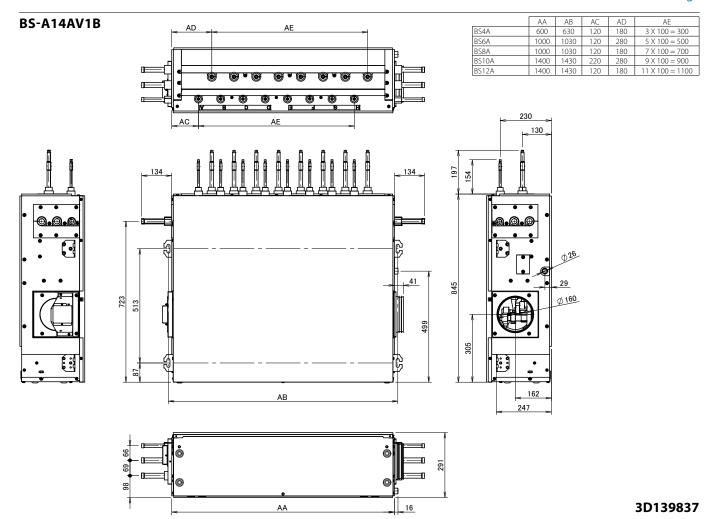
If more units are to be installed than are catered for in the above patterns, your layout should take into account of the possibility of short circuits.

 ${\it 4. Provide sufficient space at the front to connect refrigerant piping (comfortably)}.\\$



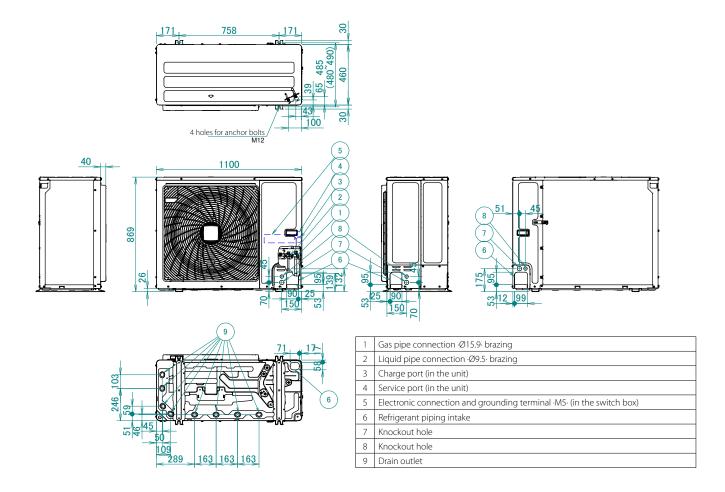
3D118467







RXYSA-AV1/AY1



3D127871A



RXYSA-AV1/AY1

Single unit () | Single row of units ()

Suction side

In the illustration below, the service space at the suction side is based on 35°C DB and cooling operation. Foresee more space in the following cases:

- When the suction side temperature regularly exceeds this temperature.
- When the heat load of the outdoor units is expected to regularly exceed the maximum operating capacity.

Discharge side

Take refrigerant piping work into account when positioning the units. If your lay out does not match with any of the layouts below, contact your dealer.

Single unit () | Single row of units ()

-		(mm)											
	A~E	H	Hb Hd Hu	a	b	С	d	е	e _B	e _D	1		
	В		-		≥ 100						1 1		
	A,B,C		-	≥ 100(1)	≥ 100	≥ 100					1		
	B,E		-		≥ 100			≥ 1000		≤500	1		
e _B	A,B,C,E		-	≥ 150(1)	≥ 150	≥ 150		≥ 1000		≤500	1		
	D		-			Ì	≥ 500				1		
e _D	D,E		-				≥ 500	≥ 1000	≤500				
	B,D		Hd>Hu		≥ 100		≥ 500						
	ט,ט		Hd≤Hu		≥ 100		≥ 500						
			Hb≤½Hu		≥ 250		≥ 750	≥ 1000	≤500				
H _B		Hd>Hu	½Hu>Hb≤Hu		≥ 250		≥ 1000	≥ 1000	≤500				
H _D C D			Hb>Hu				0						
	B,D,E		Hd≤½Hu		≥ 100		≥ 1000	≥ 1000		≤500	1		
a // d		Hd≤Hu	½Hu <hd≤hu< td=""><td></td><td>≥ 200</td><td></td><td>≥ 1000</td><td>≥ 1000</td><td></td><td>≤500</td><td></td></hd≤hu<>		≥ 200		≥ 1000	≥ 1000		≤500			
			Hd>Hu				0						
	A,B,C		-	≥ 200(1)	≥ 300 ≥	1000							
	A,B,C,E		-	≥ 200(1)	≥ 300	≥ 1000		≥ 1000		≤500			
e _s	D		-				≥ 1000						
	D,E		-				≥ 1000	≥ 1000	≤500]		
e _D	B,D		Hd>Hu		≥ 300		≥ 1000]		
		B,D	B,D	B,D	Hd≤Hu	Hd≤½Hu		≥ 250		≥ 1500			
e e		1103110	½Hu <hd≤hu< td=""><td></td><td>≥ 300</td><td></td><td>≥ 1500</td><td></td><td></td><td></td><td></td></hd≤hu<>		≥ 300		≥ 1500						
			Hb≤½Hu		≥ 300		≥ 1000	≥ 1000	≤500				
		Hd>Hu	½Hu <hb≤hu< td=""><td></td><td>≥ 300</td><td></td><td>≥ 1250</td><td>≥ 1000</td><td>≤500</td><td></td><td></td></hb≤hu<>		≥ 300		≥ 1250	≥ 1000	≤500				
2100(1) MB/N			Hb>Hu				0						
100 ¹⁰ H _B			Hd≤½Hu		≥ 250		≥ 1500	≥ 1000		≤500			
H _D M	B,D,E		½Hu <hd≤hu< td=""><td></td><td>≥ 300</td><td></td><td>≥ 1500</td><td>≥ 1000</td><td></td><td>≤500</td><td>1+2</td></hd≤hu<>		≥ 300		≥ 1500	≥ 1000		≤500	1+2		
a	a a	Hd≤Hu	Hd>Hu				0						

(1) For better serviceability, use a distance ≥250 mm

A,B,C,D Obstacles (walls/baffle plates)

E Obstacle (roof)

a,b,c,d,e Minimum service space between the unit and obstacles A, B, C, D and E

 e_B Maximum distance between the unit and the edge of obstacle E, in the direction of obstacle B e_D Maximum distance between the unit and the edge of obstacle E, in the direction of obstacle D

Hu Height of the unit

Hb,Hd Height of obstacles B and D

1 Seal the bottom of the installation frame to prevent discharged air from flowing back to the suction

side through the bottom of the unit.

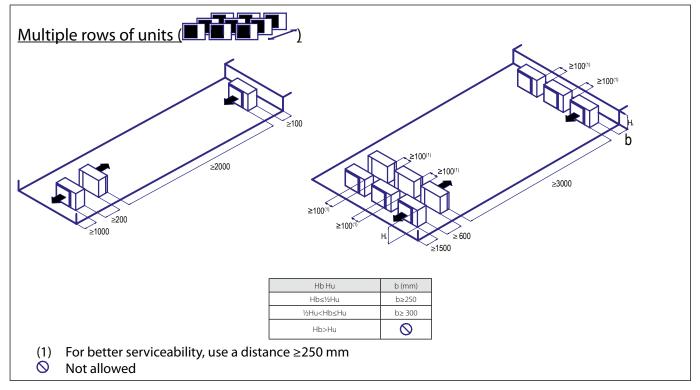
2 Maximum two units can be installed.

Not allowed

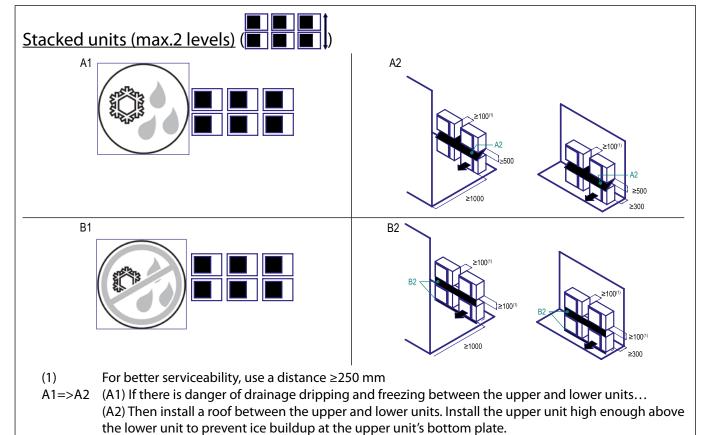


RXYSA-AV1/AY1

Multiple rows of units (



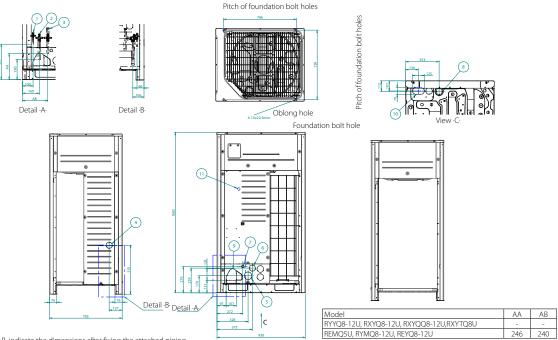




(B1) If there is no danger of drainage dripping and freezing between the upper and lower units... (B2) Then it is not required to install a roof, but seal the gap between the upper and lower units to prevent discharged air from flowing back to the suction side through the bottom of the unit.

REMQ5U / REYQ8-12U / RXYQQ8-12U / RXYQ8-12U / RYYQ8-12U / RYMQ8-12U / RXYTQ8UYF

CLICK HERE TO VIEW ALL



NOTES

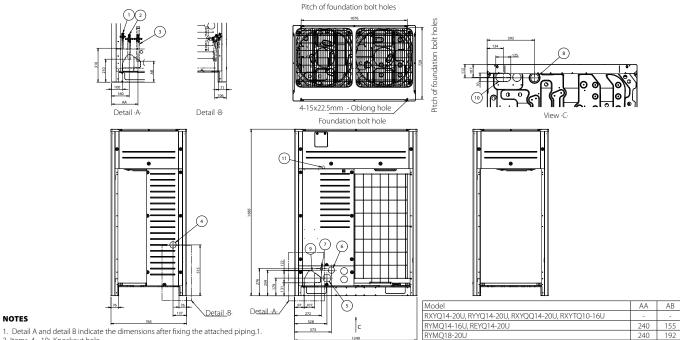
- 1. Detail $\cdot A \cdot$ and detail $\cdot B \cdot$ indicate the dimensions after fixing the attached piping. 2. Items -4 10: Knockout hole.
- 3. Gas pipe RYYQ8U, RYMQ8U, RXYQ8U, RXYQQ8U, RXYTQ8U: RYYQ10U, RYMQ10U, RXYQQ10U, RXYQQ10U: REMQ5U, REYQ8-12U:
 - RYYQ12U, RYMQ12U, RXYQ12U; Liquid pipe RYYQ8-10U, RYMQ8-10U, RXYQ8-10U, RXYQQ8-10U,

 - REMQ5U, REYQ8-12U, RXYTQ8U: RYYQ12U, RYMQ12U, RXYQ12U, RXYQQ12U: Equalising pipe RYMO8-10U:
 - RYMQ12U:
 - High pressure/low pressure gas pipe REMQ5U, REYQ8-12U:
- Ø·19.1· brazing connection Ø·22.2· brazing connection Ø·25.4· brazing connection
- Ø ·28.6· brazing connection
- Ø ·9.5· brazing connection Ø ·12.7· brazing connection
- Ø ·19.1 · brazing connection Ø ·22.2 · brazing connection
- Ø ·19.1· brazing connection

No.	Part name	Remark
1	Liquid pipe connection port	
2	Gas pipe connection port	See note ·3·.
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5	Power cord routing hole (front)	Ø80
6	Power cord routing hole (front)	Ø65
7	Power cord routing hole (front)	Ø27
8	Power cord routing hole (bottom)	Ø65
9	Pipe routing hole (front)	Inside of the switch box (·M8·)
10	Pipe routing hole (bottom)	
11	Grounding terminal	

2D119001

REYQ14-20U / RXYQQ14-20U / RXYQ14-20U / RYYQ14-20U / RYMQ14-20U / RXYTQ10-16UYF



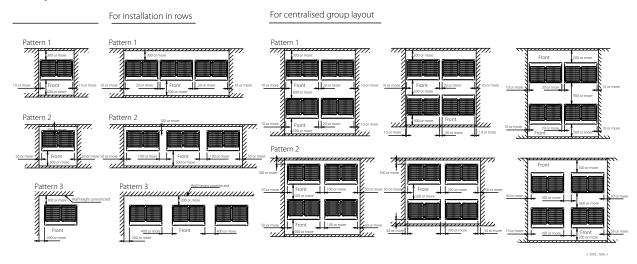
- 2. Items ·4 10: Knockout hole.
 3. Gas pipe
 RXYTQ10U: REYQ14-20U: RYYQ14-20U, RYMQ14-20U, RXYQ14-20U, RXYQQ14-20U, RXYTQ12-16U: Liquid pipe RXYTQ10U: RYYQ14-16U, RYMQ14-16U, RXYQ14-16U, RXYQQ14-16U, REYQ14-20U, RXYTQ12-16U:
 - RYYQ18-20U, RYMQ18-20U, RXYQ18-20U, RXYQQ18-20U:
- Equalising pipe RYMQ14-16U: RYMQ18-20U:
- High pressure/low pressure gas pipe REYO14-20U:
- Ø 22.2 brazing connection Ø25.4 brazing connection
- Ø28.6 brazing connection
- Ø9.5 brazing connection Ø12.7 brazing connection
- Ø15.9 brazing connection
- Ø22.2 brazing connection Ø28.6 brazing connection
- Ø22.2 brazing connection

No.	Part name	Remark
1	Liquid pipe connection port	
2	Gas pipe connection port	See note 3.
3	Equalising pipe connection port High pressure/low pressure gas pipe	See note 3.
4	Power cord routing hole (side)	Ø65
5	Power cord routing hole (front)	Ø80
6	Power cord routing hole (front)	Ø65
7	Power cord routing hole (front)	Ø27
8	Power cord routing hole (bottom)	Ø65
9	Pipe routing hole (front)	Inside of the switch box (M8)
10	Pipe routing hole (bottom)	
11	Grounding terminal	

2D119091

REMQ-U / REYQ-U / RXYQQ-U / RXYQ-U / RYYQ-U / RYMQ-U / RXYTQ-UYF

For single unit installation



NOTES

1. Height of the walls in case of patterns 1 and 2: Front: 1500mm Suction side: 500mm Side: height unrestricted

The installation space shown on this drawing is based on cooling operation at 35 $^{\circ}\text{C}$ (outdoor temperature).

When the design outdoor ambient temperature exceeds 35°C or the load exceeds maximum ability of much generation load of heat in all outdoor unit, make sure the suction-side space is broader than the space shown on this drawing.

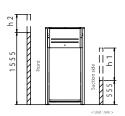
- 2. If the walls are higher than mentioned above, then additional service space is needed:
 - suction side: service space + h1/2 front side: service space + h2/2

3. When installing the units, select the pattern that best fits the available space.

Always keep in mind to leave sufficient space for a person to pass between unit and wall and for the air to circulate freely.

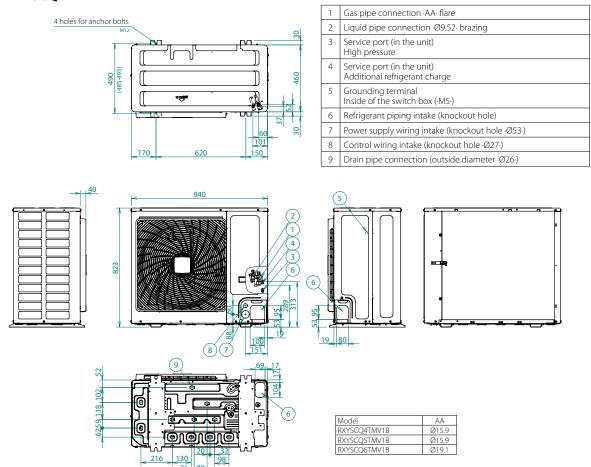
If more units are to be installed than are catered for in the above patterns, your layout should take into account of the possibility of short circuits.

4. Provide sufficient space at the front to connect refrigerant piping (comfortably).



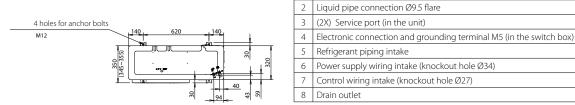
3D118467

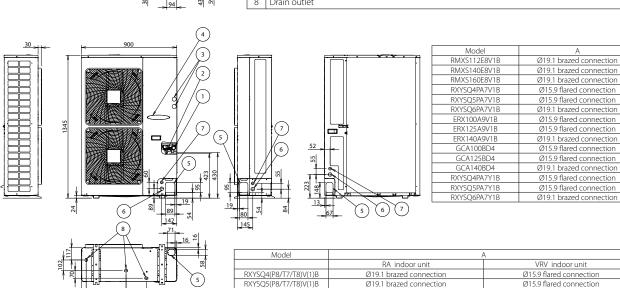
RXYSCQ-TV1



3D098107A

RXYSQ-TV9/TY9





RXYSQ6(P8/T7/T8)V(1)B

RXYSQ4(P8/T7/T8)Y(1)B RXYSQ5(P8/T7/T8)Y(1)B

RXYSQ6(P8/T7/T8)Y(1)B

Ø19.1 brazed connection

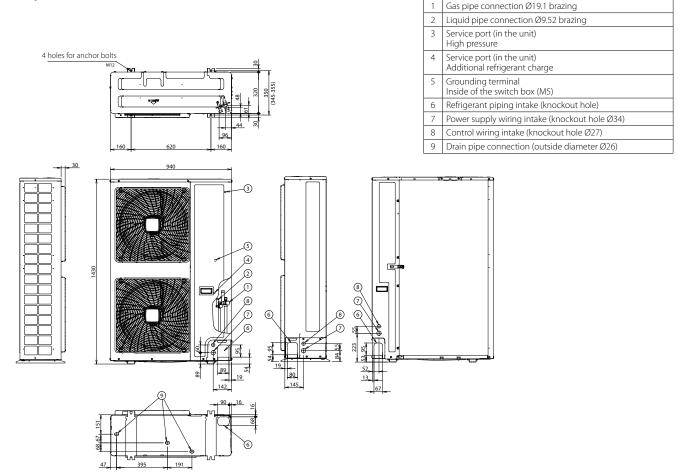
Gas pipe connection A

Ø15.9 flared connection

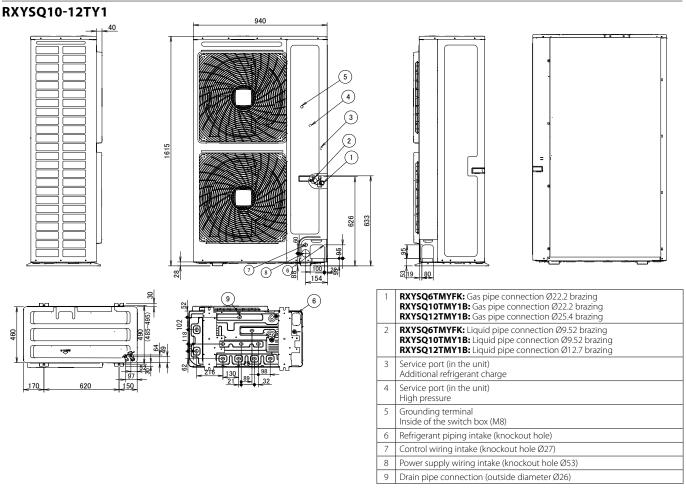
Ø15.9 flared connection

Ø19.1 brazed connection

RXYSQ8TY1



3D098108





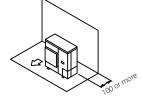
RXYSCQ-TV1

Required installation space

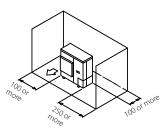
The unit of the values is mm.

1. Where there is an obstacle on the suction side: (a) No obstacle above

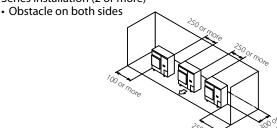
- (1) Stand-alone installation
 - · Obstacle on the suction side only



· Obstacle on both sides

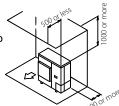


(2) Series installation (2 or more)

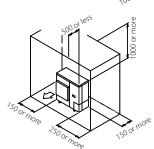


(b)Obstacle above, too

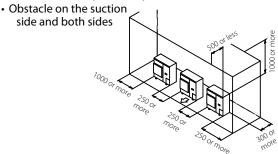
- (1) Stand-alone installation
 - · Obstacle on the suction side, too



· Obstacle on the suction side and both sides

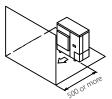


(2) Series installation (2 or more)

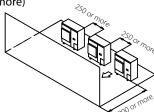


2. Where there is an obstacle on the discharge side: (a) No obstacle above

(1) Stand-alone installation

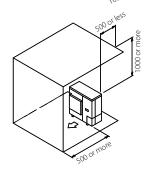


(2) Series installation (2 or more)

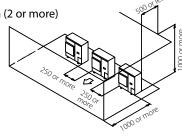


(b) Obstacle above, too

(1) Stand-alone installation



(2) Series installaton (2 or more)



3. Where there are obstacles on both suction and discharge sides:

Pattern 1

Where the obstacles on the discharge side is higher than the unit: (There is no height limit for obstructions on the intake side.)

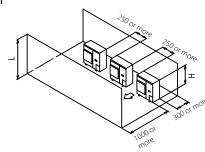
(a) No obstacle above

(1) Stand-alone installation



(2) Series installation (2 or more)





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RXYSCQ-TV1

(b)Obstacle above, too

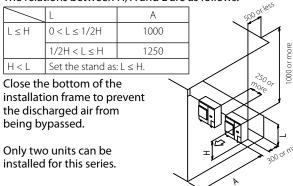
(1) Stand-alone installation

The relations between H, A and L are as follows:

	L	А	50000
L≤H	0 < L ≤ 1/2H	750	
	1/2H < L ≤ H	1000	
H < L	Set the stand as	: L ≤ H.	
installa the dis	he bottom of t ation frame to p charged air fro bypassed.	T 750 of fr	

(2) Series installation (2 or more)

The relations between H, A and L are as follows:



Pattern 2

Where the obstacles on the discharge side is lower than the unit: (There is no height limit for obstructions on the intake side.)

(a) No obstacle above

(1) Stand-alone installation



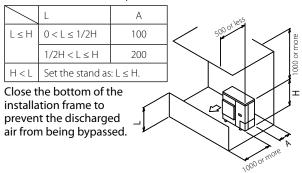
(2) Series installation (2 or more) The relations

between H, A are as follows.	and L	
L	А	
0 < L ≤ 1/2H	250	
1/2H < L ≤ H	300	3000
		one and

(b)Obstacle above, too

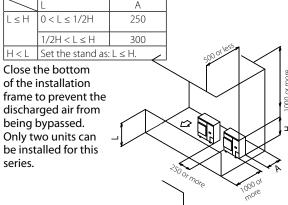
(1) Stand-alone installation

The relations between H, A and L are as follows.



(2) Series installation

The relations between H, A and L are as follows.

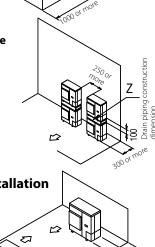


4. Double-decker installation (a) Obstacle on the discharge side

Close the gap Z (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed. Do not stack more than two unit.

(b) Obstacle on the suctions side

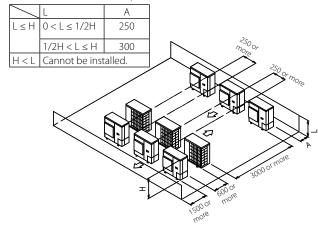
Close the gap Z (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed. Do not stack more than two





(b) Rows of series installation (2 or more)

The relations between H, A and L are as follows.



<HEAT PUMP AIR CONDITIONER> **INVERTER TYPE**

RXYSQ-TV9/TY9

Required installation space

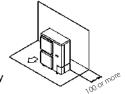
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RXYSQ-TV9 TECHNICAL DRAWINGS ON MY.DAIKIN.EU

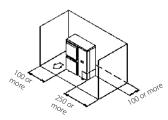
The unit of the values is mm.

(A) When there are obstacles on suction sides

- No obstacle above
 - $\begin{tabular}{ll} \hline \end{tabular} \begin{tabular}{ll} \hline \end{t$
 - · Obstacle on the suction side only

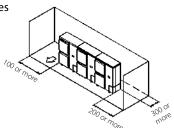


· Obstacle on both sides

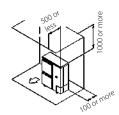


(2) Series installation (2 or more)

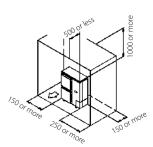
· Obstacle on both sides



- Obstacle above, too
 - 1) Stand-alone installation
 - Obstacle on the suction side, too

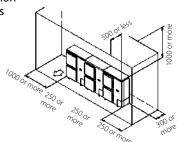


 Obstacle on the suction side, and both sides



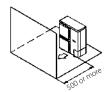
(2) Series installation (2 or more)

Obstacle on the suction side, and both sides

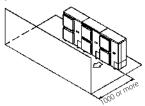


(B) When there are obstacles on discharge sides

- No obstacle above
 - 1 Stand-alone installation

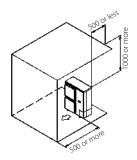


(2) Series installation (2 or more)

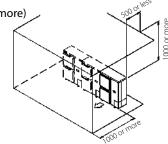


Obstacle above, too

(1) Stand-alone installation



(2) Series installaton (2 or more)



(C) When there are obstacles on both suction and discharge sides

Pattern 1

Where the obstacles on the discharge side is higher than the unit: (There is no height limit for obstructions on the intake side.)

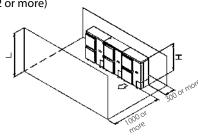
No obstacle above

1) Stand-alone installation



(2) Series installation (2 or more)





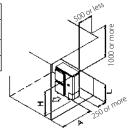
RXYSQ-TV9/TY9

• Obstacle above, too

① Stand-alone installation
The relations between H, A and L are as follows:

	L	А	
L≤H	0 < L ≤ 1/2H	750	
	1/2H < L ≤ H	1000	
H < L	Set the stand as: L ≤ H.		

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

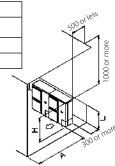


② Series installation (2 or more) The relations between H, A and L are as follows:

	L	А	
L ≤ H	0 < L ≤ 1/2H	1000	
	1/2H < L ≤ H	1250	
H < L	Set the stand as: L ≤ H.		

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

Only two units can be installed for this series.



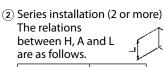
Pattern 2

When the obstacles on the discharge side is lower than the unit: (There is no height limit for obstructions on the intake side.)

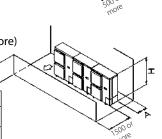


1 Stand-alone installation





are as ronorrs.	v
L	А
0 < L ≤ 1/2H	250
1/2H < L ≤ H	300



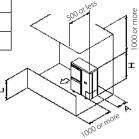
Obstacle above, too

1) Stand-alone installation

The relations between H, A and L are as follows.

The relations between 11, 7 and E					
	L	А			
L≤H	0 < L ≤ 1/2H	100			
	1/2H < L ≤ H	200			
H < L	Set the stand as: L ≤ H.				

Close the bottom of the installation frame to prevent the discharged air from being bypassed.



② Series installation The relations between H, A and L are as follows.

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RXYSQ-TV9 TECHNICAL

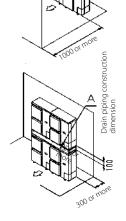
 $\begin{array}{c|cccc} L & A \\ L \leq H & 0 < L \leq 1/2H & 250 \\ \hline & 1/2H < L \leq H & 300 \\ \hline & H < L & Set the stand as: L \leq H. \\ \hline \\ Close the bottom \\ of the installation \\ \end{array}$

of the installation frame to prevent the discharged air from being bypassed.
Only two units can be installed for this series.

(D) Double-decker installation

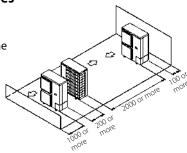
Obstacle on the discharge side Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.
Do not stack more than two unit.

② Obstacle on the suctions side Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed. Do not stack more than two unit.



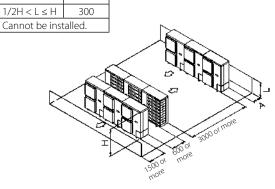
(E) Multiple rows of series installation (on the rooftop, etc.)

1) One row of stand-alone installation



2 Rows of series installation (2 or more)The relations between H, A and L are as follows.

L A L≤H 0<L≤1/2H 250





RXYSQ8TY1

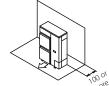
Required installation space

The unit of the values is mm.

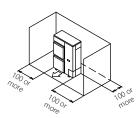
1. Where there is an obstacle on the suction side: (a) No obstacle above

(1) Stand-alone installation

Obstacle on the suction side only

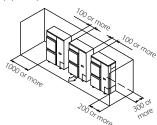


· Obstacle on both sides



(2) Series installation (2 or more) (note)

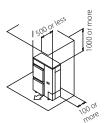
• Obstacle on both sides



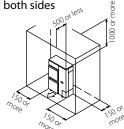
(b)Obstacle above, too

(1) Stand-alone installation

• Obstacle on the suction side, too

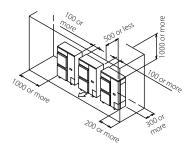


• Obstacle on the suction side and both sides



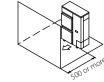
(2) Series installation (2 or more) (note)

· Obstacle on the suction side and both sides

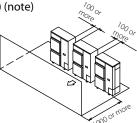


2. Where there is an obstacle on the discharge side: (a) No obstacle above

(1) Stand-alone installation

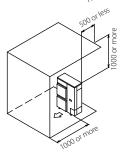


(2) Series installation (2 or more) (note)

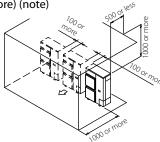


(b)Obstacle above, too

(1) Stand-alone installation



(2) Series installaton (2 or more) (note)



3. Where there are obstacles on both suction and discharge sides:

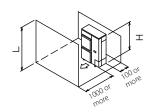
Pattern 1

Where the obstacles on the discharge side is higher than the unit: (There is no height limit for obstructions on the intake side.)

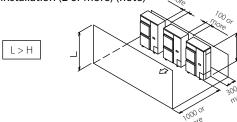
(a) No obstacle above

(1) Stand-alone installation





(2) Series installation (2 or more) (note)



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RXYSQ8TY1

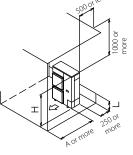
(b)Obstacle above, too

(1) Stand-alone installation

The relations between H, A and L are as follows:

	L	А	
L≤H	0 < L ≤ 1/2H	1000	
	1/2H < L ≤ H	1250	
H < L	Set the stand as: L ≤ H.		

Close the bottom of the installation frame to prevent the discharged air from being bypassed.



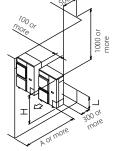
(2) Series installation (2 or more) (note)

The relations between H, A and L are as follows:

	L	А	
L≤H	0 < L ≤ 1/2H	1000	
	1/2H < L ≤ H	1250	
H < L	Set the stand as: $L \le H$.		

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

Only two units can be installed for this series.

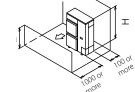


Pattern 2

Where the obstacles on the discharge side is lower than the unit: (There is no height limit for obstructions on the intake side.)

(c) No obstacle above

(1) Stand-alone installation



(2) Series installation (2 or more) (note)
The relations between H, A and L are as follows.

 $\mathsf{L} \leq \mathsf{H}$

L	А	nore /
0 < L ≤ 1/2H	250	/ /
1/2H < L ≤ H	300	100 or
		T I I I I I I I I I I I I I I I I I I I

(d)Obstacle above, too

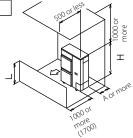
(1) Stand-alone installation

The relations between H, A and L are as follows.

	L	А
L≤H	0 < L ≤ 1/2H	100
	1/2H < L ≤ H	200
HZI	Sat the stand as: 1 < H	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

If the distance exceed the figure in the (), then it's no need to set the stand.



(2) Series installation (note)

The relations between H, A and L are as follows.

	L	А				
L≤H	0 < L ≤ 1/2H	250	_	500 or less	\	1_
	1/2H < L ≤ H	300				1000 or more
H < L	$H < L$ Set the stand as: $L \le H$.					
installa prever from b Only to for this If the c	Close the bottom of the installation frame to prevent the discharged air from being bypassed. Only two units can be installed for this series. If the distance exceed the figure in the (), then it's no need to set the stand.					

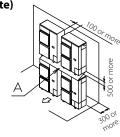
4. Double-decker installation

(a) Obstacle on the discharge side (note)
Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.
Do not stack more than two unit.
Set the board (field supply) as the detail A between two units to pre-

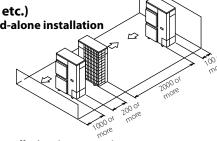
detail A between two units to prevent the drainage from frozing. Leave the enough space between the layer one and the board.



Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.
Do not stack more than two unit. Set the board (field supply) as the detail A between two units to prevent the drainage from frozing. Leave the enough space between the layer one and the board.

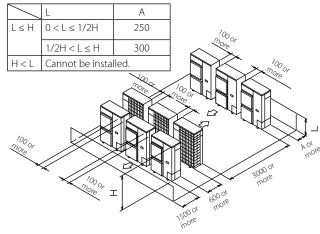


5. Multiple rows of series installation (on the rooftop, etc.)(a) One row of stand-alone installation



(b) Rows of series installation (2 or more)

The relations between H, A and L are as follows.



OUTDOOR UNIT FOR VRV SYSTEM

NOTES



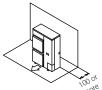
RXYSQ10-12TY1

Required installation space

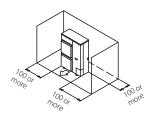
The unit of the values is mm.

1. Where there is an obstacle on the suction side: (a) No obstacle above

- (1) Stand-alone installation
 - Obstacle on the suction side only

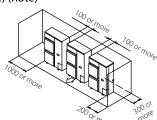


• Obstacle on both sides



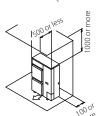
(2) Series installation (2 or more) (note)

• Obstacle on both sides

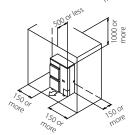


(b)Obstacle above, too

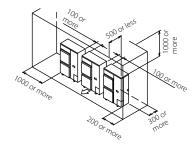
- (1) Stand-alone installation
 - Obstacle on the suction side, too



 Obstacle on the suction side and both sides



- (2) Series installation (2 or more) (note)
 - Obstacle on the suction side and both sides

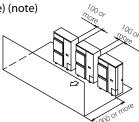


2. Where there is an obstacle on the discharge side: (a) No obstacle above

(1) Stand-alone installation

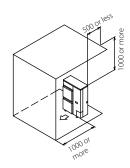


(2) Series installation (2 or more) (note)

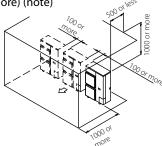


(b)Obstacle above, too

(1) Stand-alone installation



(2) Series installaton (2 or more) (note)



3. Where there are obstacles on both suction and discharge sides:

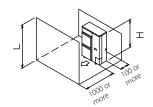
Pattern 1

Where the obstacles on the discharge side is higher than the unit: (There is no height limit for obstructions on the intake side.)

(a) No obstacle above

(1) Stand-alone installation

L > H



(2) Series installation (2 or more) (note)

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RXYSQ10-12TY1

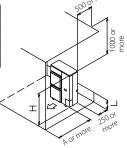
(b)Obstacle above, too

(1) Stand-alone installation

The relations between H, A and L are as follows:

	L	А
L≤H	0 < L ≤ 1/2H	1000
	1/2H < L ≤ H	1250
H < L	Set the stand as: L ≤ H.	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.



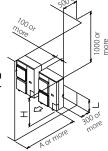
(2) Series installation (2 or more) (note)

The relations between H, A and L are as follows:

	L	А
L≤H	0 < L ≤ 1/2H	1000
	1/2H < L ≤ H	1250
H < L	Set the stand as: L ≤ H.	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

Only two units can be installed for this series.

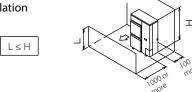


Pattern 2

Where the obstacles on the discharge side is lower than the unit: (There is no height limit for obstructions on the intake side.)

(c) No obstacle above

(1) Stand-alone installation



(2) Series installation (2 or more) (note)
The relations between H, A and L are as follows.

L	А	100 or More
0 < L ≤ 1/2H	250	l ×/
1/2H < L ≤ H	300	/ ¹ / ₁₀ / ₀ , o ₁
	_	T 1,200 of 1,00 more

(d)Obstacle above, too

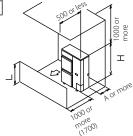
(1) Stand-alone installation

The relations between H, A and L are as follows.

	L	А
L≤H	0 < L ≤ 1/2H	100
	1/2H < L ≤ H	200
H < L	Set the stand as: $L \le H$.	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

If the distance exceed the figure in the (), then it's no need to set the stand.



(2) Series installation (note)

The relations between H, A and L are as follows.

	L	А	
L≤H	0 < L ≤ 1/2H	250	
	1/2H < L ≤ H	300	500 or less
H < L	1000 or 1000		
installa the dis being Only to installa If the of figure	the bottom of tation frame to partion frame to percention from the control of the	1000 or more	

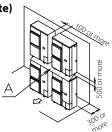
4. Double-decker installation
(a) Obstacle on the discharge side (note)

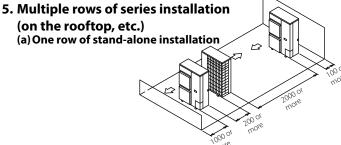
Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.
Do not stack more than two unit.
Set the board (field supply) as the detail A between two units to prevent the drainage from frozing.
Leave the enough space between the layer one and the board.



Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharge air from being bypassed. Do not stack more than two unit. Set the board (field supply) as the detail A between two units to pre-

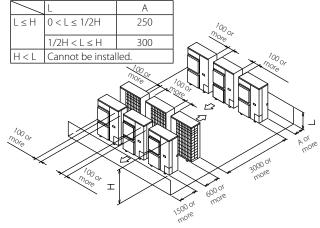
vent the drainage from frozing. Leave the enough space between the layer one and the board.





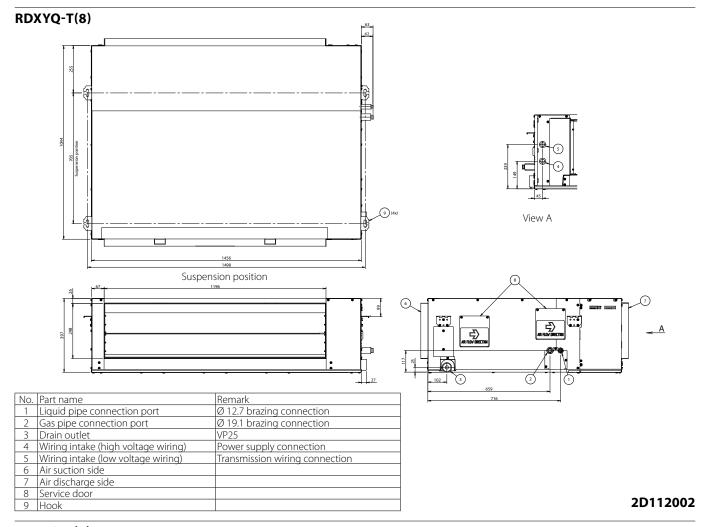
(b) Rows of series installation (2 or more)

The relations between H, A and L are as follows.

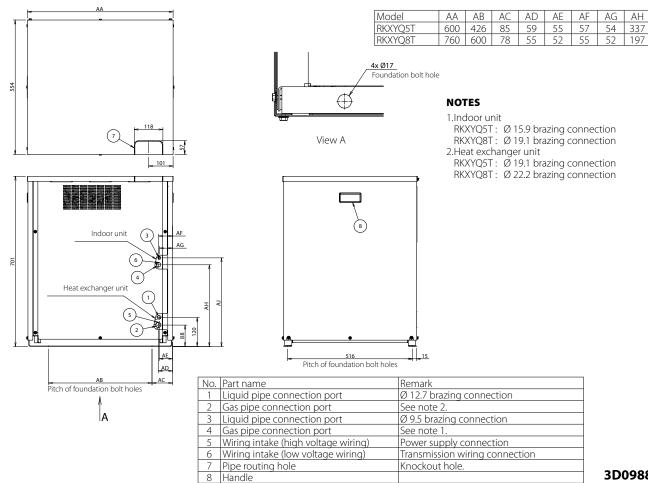


OUTDOOR UNIT FOR VRV SYSTEM

NOTES



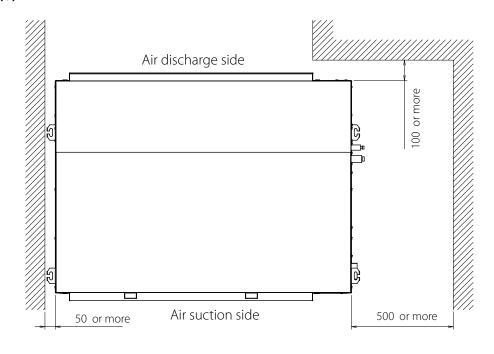
RKXYQ-T(8)

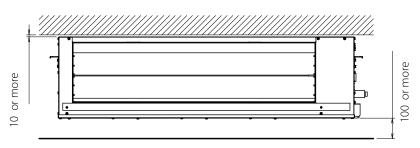


365



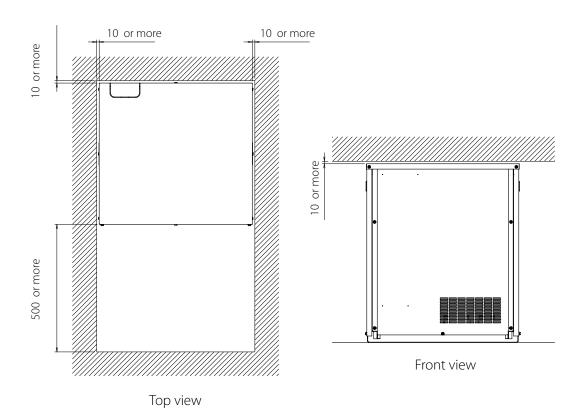
RDXYQ-T(8)





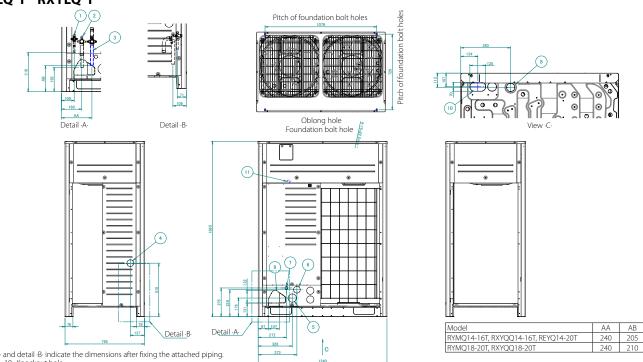
3D098834

RKXYQ-T(8)





RXMLQ-T-RXYLQ-T



NOTES 1. Detail ·A· and detail ·B· indicate the dimensions after fixing the attached piping.

2. Items 4 - 10: Knockout hole.
3. Gas pipe
RXMLQ8T: RXYTQ10T, RXYLQ10T: REYQ14-20T: RYYQ14-20T, RYMQ14-20T, RXYQ14-20T, RXYQQ14-20T, RXYTQ12-16T, RXYLQ12-14T: Liquid pipe RXYTQ10T, RXMLQ8T, RXYLQ10T: RYYQ14-16T, RYMQ14-16T, RXYQ14-16T, RXYQQ14-16T, REYQ14-20T, RXYTQ12-16T, RXYLQ12-14T:
RYYQ18-20T, RYMQ18-20T, RXYQ18-20T, RXYQQ18-20T:

Equalising pipe RYMQ14-16T: RYMQ18-20T

High pressure/low pressure gas pipe REYQ14-20T:

Ø 19.1 brazing connection Ø 22.2 brazing connection Ø 25.4 brazing connection

Ø 28.6 brazing connection \emptyset 9.5 brazing connection

Ø 12.7 brazing connection Ø 15.9 brazing connection

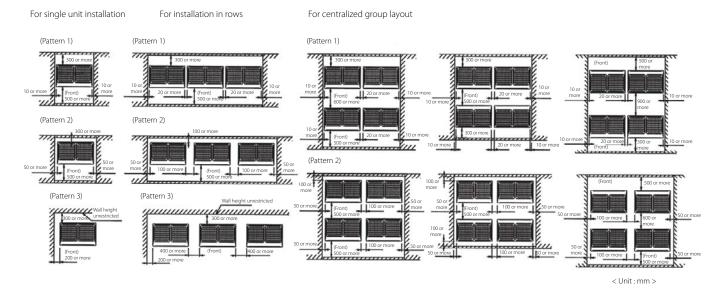
Ø 22.2 brazing connection Ø 28.6 brazing connection

Ø 22.2 brazing connection

No.	Part name	Remark
1	Liquid pipe connection port	See note ·3·.
2	Gas pipe connection port	See note ·3·.
3	Equalising pipe connection port	See note ·3·.
	High pressure/low pressure gas pipe	
4	Power cord routing hole (side)	Ø65
5	Power cord routing hole (front)	Ø80
6	Power cord routing hole (front)	Ø65
7	Power cord routing hole (front)	Ø27
8	Power cord routing hole (bottom)	Ø65
9	Pipe routing hole (front)	
10	Pipe routing hole (bottom)	
11	Grounding terminal	Inside of the switch box (·M8·)

2D079533E

RXMLQ-T-RXYLQ-T



NOTES

1. Heights of walls in case of patterns 1 and 2:

Front: 1500mm

Suction side: 500mm
Suction side: 500mm
Side: Height unrestricted
Installation space as shown on this drawing is based on the cooling operation at 35 degrees outdoor air temperature.
When the design outdoor air temperature exceeds 35 degrees or the load exceeds maximum ability of much generation load of heat in all outdoor unit, take the suction side space more broadly than the space as shown on this drawing.

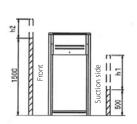
2. If the above wall heights are exceeded then h2/2 and h1/2 should be added to the front and suction side service spaces respectively as shown in

the figure on the right.

3. When installing the units most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available. Always keep in mind the need to leave enough space for a person to pass between units and wall and also for the air to circulate freely.

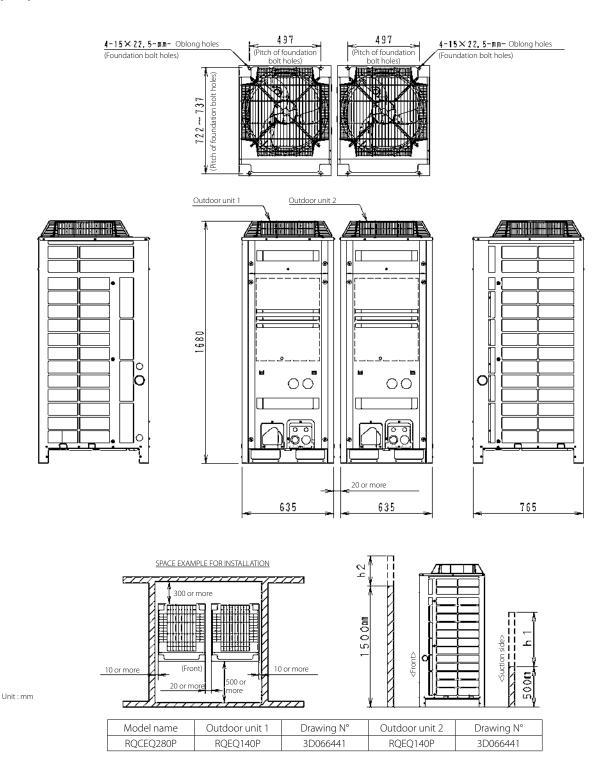
(If more units are to be installed than are catered for in the above patterns your layout should take account of the possibility of short circuits).

4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.



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RQCEQ280P3

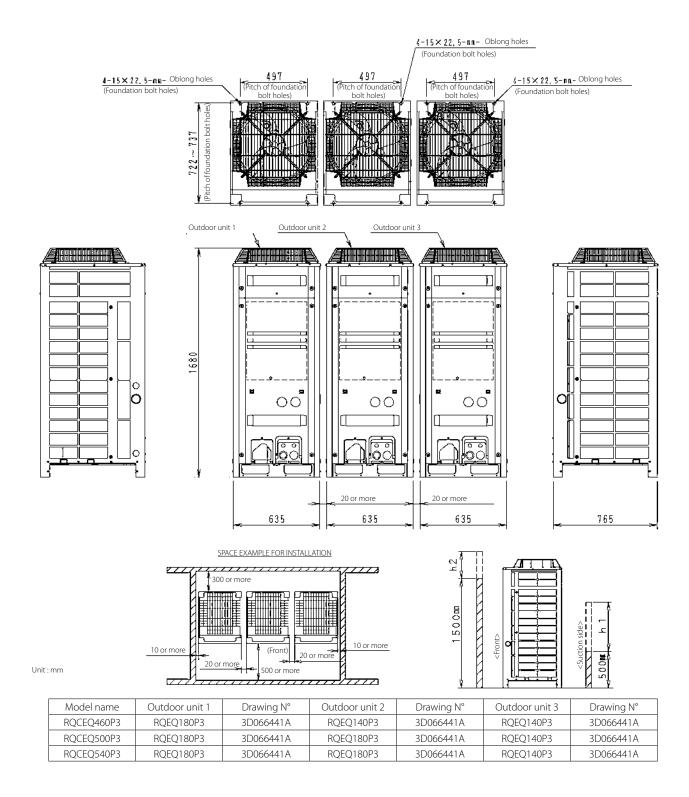


- 1. Heights of walls
- Front: 1500mm Suction side: 500mm
- Side: Height unrestricted
- The installation space shown in this figure is based on the condition of cooling operation at the outdoor air temperature of 35°C. The installation space of suction side shown above must be expanded in the following case.
- Design outdoor temperature becomes over 35°C.

- Operating over Max. operating load (In case of causing a heavy heating load at indoor unit side)
 2. If the above wall heights are exceeded then h2/2 and h1/2 should be added to the front and suction side service spaces respectively as shown in the following figure.
- 3. When installing the units the most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available always bearing in mind the need to leave enough room for a person to pass between units and wall for the air to circulate freely. (If more units are to be installed than are catered for in the above patterns your layout should take account of the possibility of short circuits.)
- 4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out confortably.



RQCEQ460-540P3

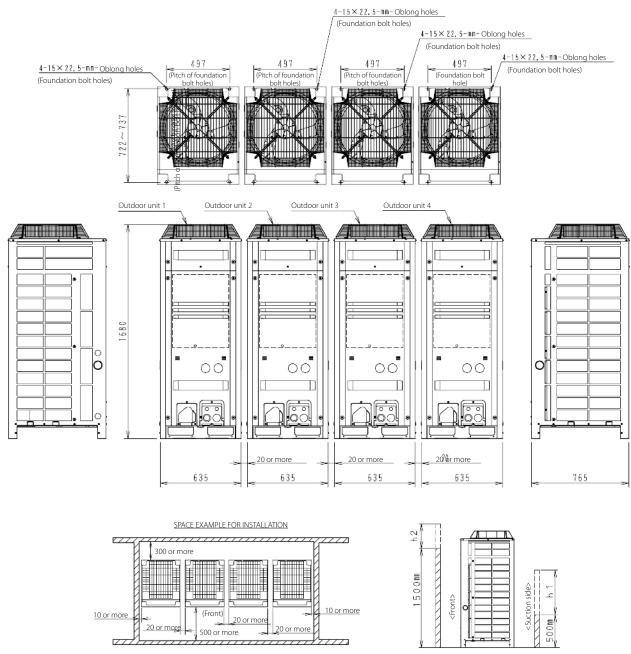


- 1. Heights of walls
- Front: 1500mm Suction side: 500mm
- Side: Height unrestricted
- The installation space shown in this figure is based on the condition of cooling operation at the outdoor air temperature of 35°C. The installation space of suction side shown above must be expanded in the following case.
- Design outdoor temperature becomes over 35°C.

- Operating over Max. operating load (In case of causing a heavy heating load at indoor unit side)
 2. If the above wall heights are exceeded then h2/2 and h1/2 should be added to the front and suction side service spaces respectively as shown in the following figure.
- 3. When installing the units the most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available always bearing in mind the need to leave enough room for a person to pass between units and wall for the air to circulate freely. (If more units are to be installed than are catered for in the above patterns your layout should take account of the possibility of short circuits.)
- 4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out confortably.



RQCEQ721-816P3



U	nit	:	m	ır	n

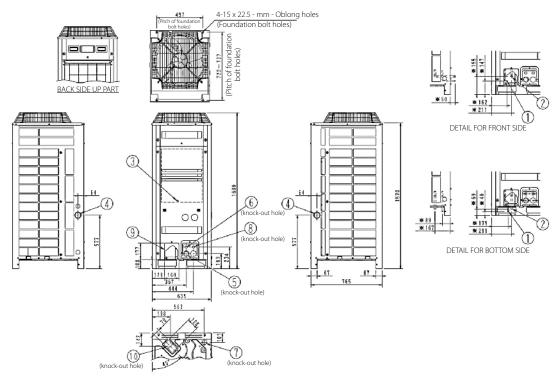
Model name	Outdoor unit 1	Drawing N°	Outdoor unit 2	Drawing N°	Outdoor unit 3	Drawing N°	Outdoor unit 4	Drawing N°
RQCEQ712P3	RQEQ212P3	3D066441A	RQEQ180P3	3D0664413	RQEQ180PA	3D066441A	RQEQ140P3	3D066441A
RQCEQ744P3	RQEQ212P3	3D066441A	RQEQ212P3	3D0664413	RQEQ180PA	3D066441A	RQEQ140P3	3D066441A
RQCEQ816P3	RQEQ212P3	3D066441A	RQEQ212P3	3D0664413	RQEQ212PA	3D066441A	RQEQ180P3	3D066441A

- 1. Heights of walls
- Front: 1500mm Suction side: 500mm
- Side: Height unrestricted
- The installation space shown in this figure is based on the condition of cooling operation at the outdoor air temperature of 35°C. The installation space of suction side shown above must be expanded in the following case.
- Design outdoor temperature becomes over 35°C.

- Operating over Max. operating load (In case of causing a heavy heating load at indoor unit side)
 2. If the above wall heights are exceeded then h2/2 and h1/2 should be added to the front and suction side service spaces respectively as shown in the following figure.
- 3. When installing the units the most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available always bearing in mind the need to leave enough room for a person to pass between units and wall for the air to circulate freely. (If more units are to be installed than are catered for in the above patterns your layout should take account of the possibility of short circuits.)
- 4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out confortably.



RQYQ140P



No.	Part name	Remark
1	Liquid pipe connection port	ø9.5 Brazing connection
2	Gas pipe connection port	See note 3.
3	Grounding terminal	Inside of switch box (M8)
4	Power cord routing hole (side)	ø62
5	Power cord routing hole (front)	ø45
6	Power cord routing hole (front)	ø27
7	Power cord routing hole (bottom)	ø50
8	Wire routing hole (front)	ø27
9	Pipe routing hole (front)	See note 2.
10	Pipe routing hole (bottom)	See note 2.

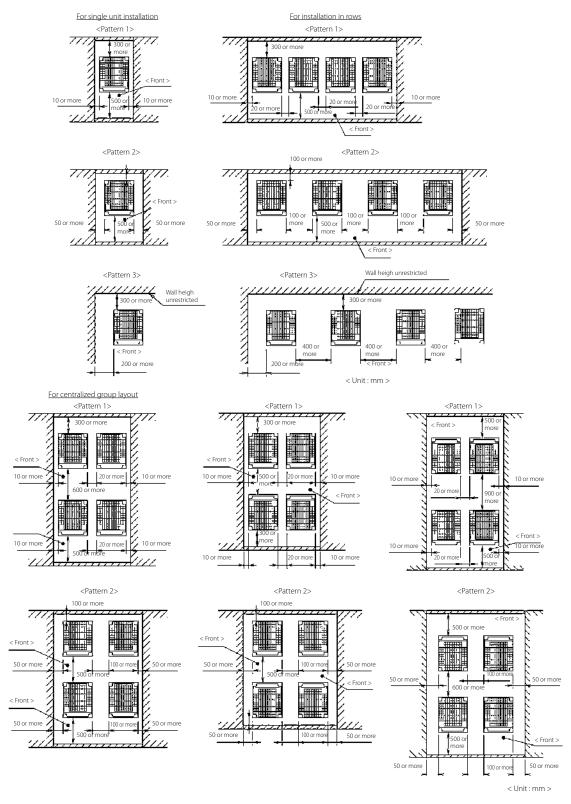
NOTES

- 1. * shows the dimensions after fixing the accessory pipes.
 2. For piping connection method (front and bottom sides) see the installation manual. 3.Gas pipe ø15.9 Brazing connection: RQYQ140P3

3D066442

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RQYQ140P



NOTES

1. Heights of walls in case of patterns 1 and 2:

Front: 1500mm

Suction side: 500mm

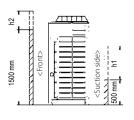
Side: Height unrestricted

Installation space as shown on this drawing is based on the cooling operation at 35 degrees outdoor air temperature. When the design outdoor air temperature exceeds 35 degrees or the load exceeds maximum ability of much generation load of heat in all outdoor unit, take the suction side space more broadly than the space as shown on this drawing.

- 2.If the above wall heights are exceeded then h2/2 and h1/2 should be added to the front and suction side service
- spaces respectively as shown in the figure on the right.

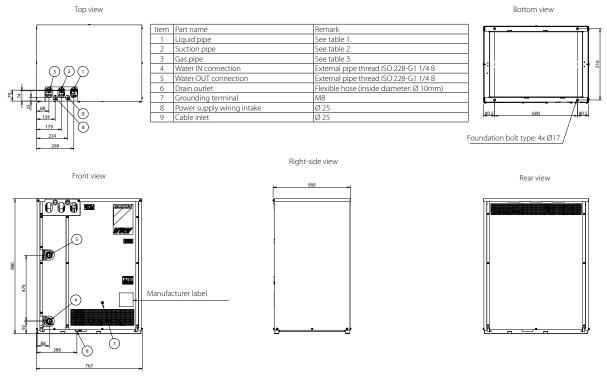
 3. When installing the units most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available always bearing in mind the need to leave enough space for a person to pass between units and wall and for the air to circulate freely..
- (If more units are to be installed than are catered for in the above patterns your layout should take account of the possibility of short circuits).

 4.The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried
- out comfortably.





RWEYQ-T9



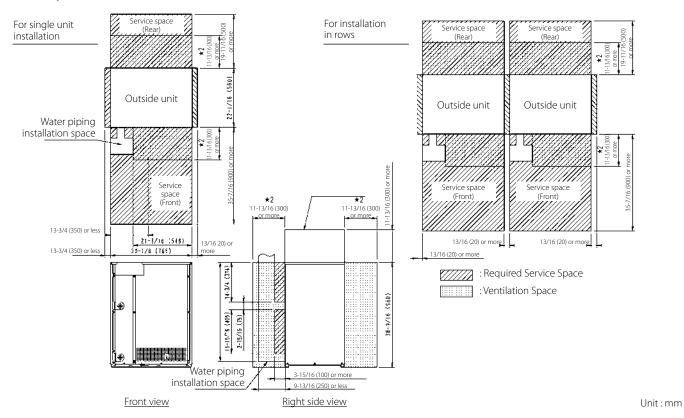
- NOTES
- 1. The grounding terminal is located in the switch box.
- 2. The pipe connections are brazed connections.
- 3. In case of a heat pump, the suction pipe is not used.

Table 1

Model	RWE'	/Q8T9	RWEY	Q10T9	RWEY	Q12T9	RWEY	Q14T9
Operation mode	Heat pump	Heat recovery	Heat pump	Heat recovery	Heat pump	Heat recovery	Heat pump	Heat recovery
Liquid pipe	Ø 9.5		Ø 9.5		Ø 12.7		Ø 12.7	
Suction pipe		Ø 19.1		Ø 22.2		Ø 28.6		Ø 28.6
Gas pipe (high/low pressure)	Ø 19.1	Ø 15.9	Ø 22.2	Ø 19.1	Ø 28.6	Ø 19.1	Ø 28.6	Ø 22.2

2D108932A

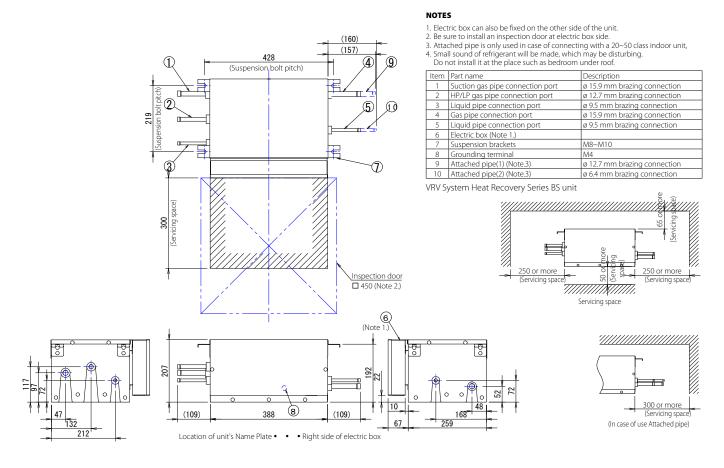
RWEYQ-T9



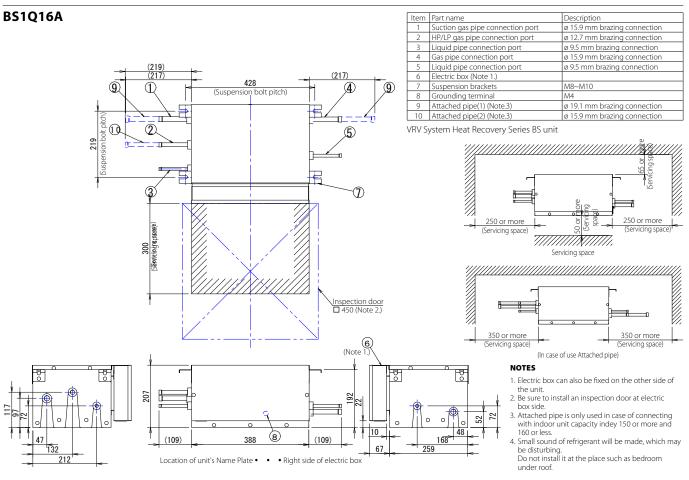
- \bigstar 1. This space is necessary when refrigerant piping is connected to the top of the unit.
- ★2. This ventialition space is necessary when heat rejection cancellation (Zero energy sissipation) is not active.

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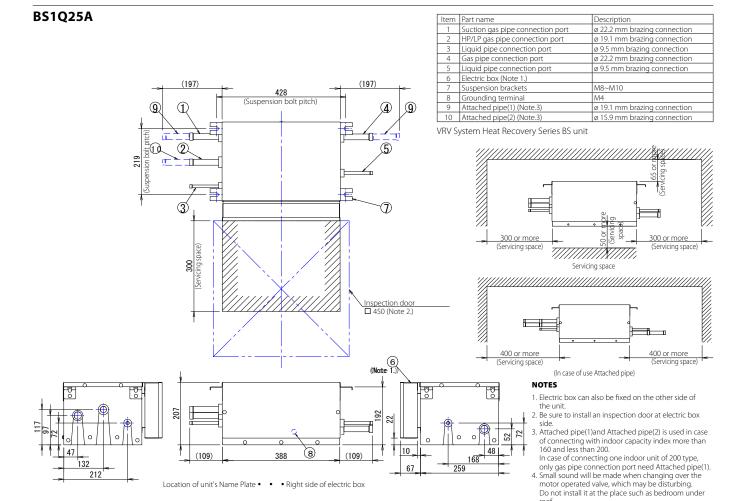
BS1Q10A



3D056011C







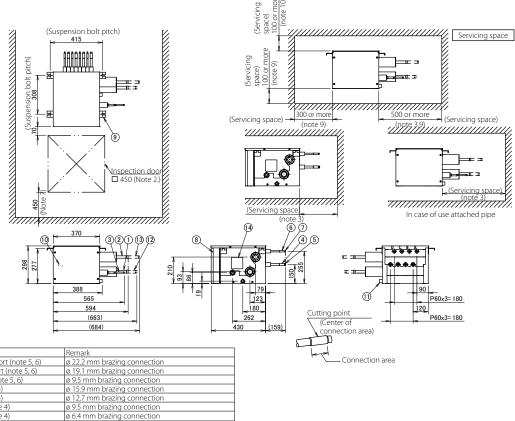
3D056012D

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BS4Q14AV1B

NOTES

- Be sure to install an inspection door at electric box side, another door is necessary to unload the product
- Install the BS box on a location where the refrigerant noise cannot disturbe the room
 - occupants.
 To avoid that refrigerant noise disturbs the people in the room, keep at least 5m piping between the occupied room and the BS box.
 - If there is no false ceiling at the room, please add sound insulation around the piping between BS box and indoor unit, or keep much longer length between BS box and occupied room.
- Occupy the space which is possible to install
- field pipes.
 In case of connection with a 20~50 type indoor unit, there is no need to cut and
 - connect as it is. In case of others, cut the outlet pipe and connect to the connecting pipe. Refer to figure above.
- Reducer may be required (field supply) if joint diameter does not suit on the triple piping
- Insulators are necessary (field supply) for the triple piping side.
 This space is a space to keep a top panel when
- servicing. Install it in a space which can be secured downwards slope of 1/100 or more.
- It is a space for removing the drain pan.
 This is a space for removing a top panel when
- servicing.



Item	Part name	Remark
1	Outdoor unit suction gas pipe connection port (note 5, 6)	ø 22.2 mm brazing connection
2	Outdoor unit HP/LP gas pipe connection port (note 5, 6)	ø 19.1 mm brazing connection
3	Outdoor unit liquid pipe connection port (note 5, 6)	ø 9.5 mm brazing connection
4	Indoor unit gas pipe connection port (note 4)	ø 15.9 mm brazing connection
5	Indoor unit gas pipe connection port (note 4)	ø 12.7 mm brazing connection
6	Indoor unit liquid pipe connection port (note 4)	ø 9.5 mm brazing connection
7	Indoor unit liquid pipe connection port (note 4)	ø 6.4 mm brazing connection
8	Electric box (note 1)	
9	Suspension brackets	M8~M10
10	Grounding terminal	M4
11	Socket for drain	VP20 (O.D.ø 26 mm / I.D.ø 20 mm)
12	Attached pipe (note 5, 6)	ø 19.1 mm brazing connection
13	Attached pipe (note 5, 6)	ø 15.9 mm brazing connection
14	Inspection hole	

3D106407

Servicing space

BS6Q14AV1B

- Be sure to install an inspection door at electric box side, another door is necessary to unload the product.
 - Install the BS box on a location where the
- refrigerant noise cannot disturbe the room occupants.
 -To avoid that refrigerant noise disturbs the
 - people in the room, keep at least 5m piping between the occupied room and the BS box. If there is no false ceiling at the room, please add sound insulation around the piping between BS box and indoor unit, or keep much longer length between BS box and occupied room.
- Occupy the space which is possible to install field pipes.
 In case of connection with a 20~50 type indoor unit, there is no need to cut and
 - connect as it is.
 In case of others, cut the outlet pipe and connect to the connecting pipe. Refer to figure above.
- Reducer may be required (field supply) if joint diameter does not suit on the triple piping
- Insulators are necessary (field supply) for the triple piping side.
- This space is a space to keep a top panel when servicing.
- Install it in a space which can be secured 8.

servicing.

10 Grounding terminal

Inspection hole

Socket for drain

Attached pipe (note 5, 6)

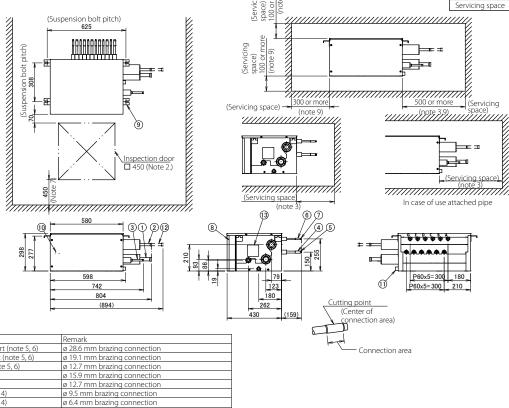
- downwards slope of 1/100 or more.

 9. It is a space for removing the drain pan.

 10. This is a space for removing a top panel when
- Outdoor unit suction gas pipe connection port (note 5, 6) Outdoor unit HP/LP gas pipe connection port (note 5, 6) Outdoor unit liquid pipe connection port (note 5, 6) Indoor unit gas pipe connection port (note 4) Indoor unit gas pipe connection port (note 4) Indoor unit liquid pipe connection port (note 4) Indoor unit liquid pipe connection port (note 4) 8 Electric box (note 1) uspension brackets M8~M10

VP20 (O.D.ø 26 mm / I.D.ø 20 mm)

ø 22.2 mm brazing connection





BS8Q14AV1B

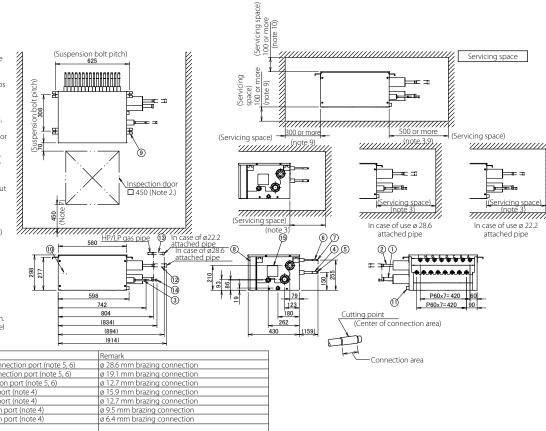
NOTES

- Be sure to install an inspection door at electric box side, another door is
- necessary to unload the product. Install the BS box on a location where the refrigerant noise cannot disturbe
 - the room occupants.
 To avoid that refrigerant noise disturbs the people in the room, keep at least 5m piping between the occupied room and the BS box.

 If there is no false ceiling at the room,
- please add sound insulation around the piping between BS box and indoor unit, or keep much longer length between BS box and occupied room.
- Occupy the space which is possible to install field pipes.
- In case of connection with a 20~50 type indoor unit, there is no need to cut and connect as it is. In case of others, cut the outlet pipe and connect to the connecting pipe. Refer to figure above.
- Reducer may be required (field supply) if joint diameter does not suit on the triple piping side.
 Insulators are necessary (field supply)
- for the triple piping side.

 This space is a space to keep a top panel when servicing.

 Install it in a space which can be
- secured downwards slope of 1/100 or more.
- It is a space for removing the drain pan. This is a space for removing a top panel when servicing.



Item	i Part name	Kemark
1	Outdoor unit suction gas pipe connection port (note 5, 6)	ø 28.6 mm brazing connection
2	Outdoor unit HP/LP gas pipe connection port (note 5, 6)	ø 19.1 mm brazing connection
3	Outdoor unit liquid pipe connection port (note 5, 6)	ø 12.7 mm brazing connection
4	Indoor unit gas pipe connection port (note 4)	ø 15.9 mm brazing connection
5	Indoor unit gas pipe connection port (note 4)	ø 12.7 mm brazing connection
6	Indoor unit liquid pipe connection port (note 4)	ø 9.5 mm brazing connection
7	Indoor unit liquid pipe connection port (note 4)	ø 6.4 mm brazing connection
8	Electric box (note 1)	
9	Suspension brackets	M8~M10
10	Grounding terminal	M4
11	Socket for drain	VP20 (O.D.ø 26 mm / I.D.ø 20 mm)
12	Attached pipe (note 5, 6)	ø 28.6 mm brazing connection
13	Attached pipe (note 5, 6)	ø 22.2 mm brazing connection
14	Attached pipe (note 5, 6)	ø 15.9 mm brazing connection
15	Inspection hole	

3D106409

BS10Q14AV1B

NOTES

- Be sure to install an inspection door at electric box side, another door is necessary to unload the product. - Install the BS box on a location where
- the refrigerant noise cannot disturbe the room occupants.
 To avoid that refrigerant noise disturbs
 - the people in the room, keep at least 5m piping between the occupied room and the BS box.

 If there is no false ceiling at the room,
 - please add sound insulation around the piping between BS box and indoor unit, or keep much longer length between BS box and occupied room
- Occupy the space which is possible to install field pipes.
- In case of connection with a 20~50 type indoor unit, there is no need to cut and connect as it is. In case of others, cut the outlet pipe and connect to the connecting pipe. Refer to figure above.
- Reducer may be required (field supply) if joint diameter does not suit on the triple piping side.
- Insulators are necessary (field supply)
- for the triple piping side. This space is a space to keep a top
- panel when servicing. Install it in a space which can be secured downwards slope of 1/100 or more.

Electric box (note 1) Suspension brackets

10 Grounding terminal

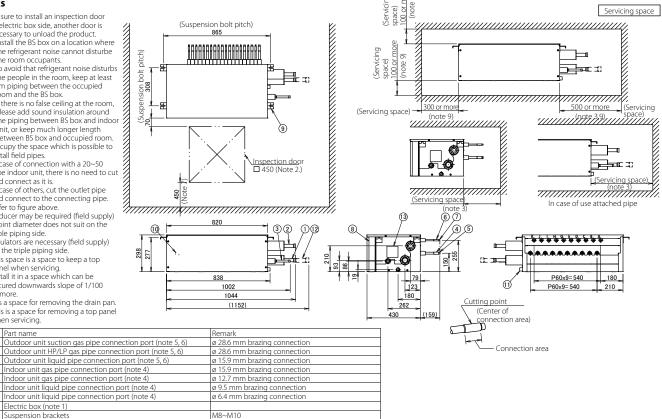
Inspection hole

Socket for drain Attached pipe (note 5, 6)

Item Part name

8

It is a space for removing the drain pan This is a space for removing a top panel when servicing.



VP20 (O.D.ø 26 mm / I.D.ø 20 mm)

ø 34.9 mm brazing connection

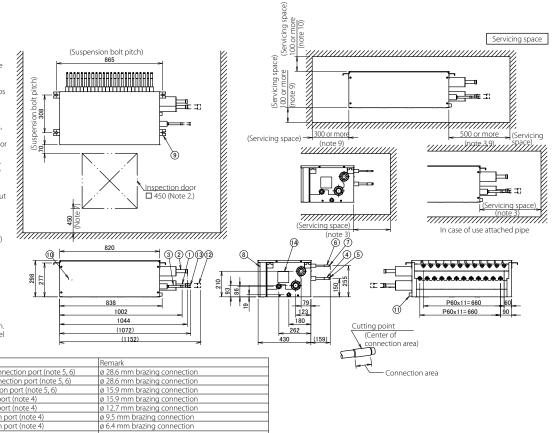
3D106410

CLICK HERE TO VIEW ALL BS-Q14AV1B TECHNICAL DRAWINGS ON MY.DAIKIN.EU

BS12Q14AV1B

NOTES

- 1. Be sure to install an inspection door at electric box side, another door is necessary to unload the product.
- Install the BS box on a location where the refrigerant noise cannot disturbe the room occupants. To avoid that refrigerant noise disturbs
- Io avoid that refrigerant noise disturbs the people in the room, keep at least 5m piping between the occupied room and the BS box.
 If there is no false ceiling at the room, please add sound insulation around the piping between BS box and indoor unit or keep much langer length.
- the piping between 55 box and indoor unit, or keep much longer length between BS box and occupied room. Occupy the space which is possible to install field pipes. In case of connection with a 20~50 type indoor unit, there is no need to cut and connect as it is: and connect as it is. In case of others, cut the outlet pipe and connect to the connecting pipe.
- Refer to figure above. Reducer may be required (field supply) if joint diameter does not suit on the
- triple piping side. Insulators are necessary (field supply) for the triple piping side.
- This space is a space to keep a top
- panel when servicing.
 Install it in a space which can be secured downwards slope of 1/100 or more.
- It is a space for removing the drain pan.
 This is a space for removing a top panel when servicing.



Item	Part name	Remark
1	Outdoor unit suction gas pipe connection port (note 5, 6)	ø 28.6 mm brazing connection
2	Outdoor unit HP/LP gas pipe connection port (note 5, 6)	ø 28.6 mm brazing connection
3	Outdoor unit liquid pipe connection port (note 5, 6)	ø 15.9 mm brazing connection
4	Indoor unit gas pipe connection port (note 4)	ø 15.9 mm brazing connection
5	Indoor unit gas pipe connection port (note 4)	ø 12.7 mm brazing connection
6	Indoor unit liquid pipe connection port (note 4)	ø 9.5 mm brazing connection
7	Indoor unit liquid pipe connection port (note 4)	ø 6.4 mm brazing connection
8	Electric box (note 1)	
9	Suspension brackets	M8~M10
10	Grounding terminal	M4
11	Socket for drain	VP20 (O.D.ø 26 mm / I.D.ø 20 mm)
12	Attached pipe (note 5, 6)	ø 34.9 mm brazing connection
13	Attached pipe (note 5, 6)	ø 19.1 mm brazing connection
14	Inspection hole	

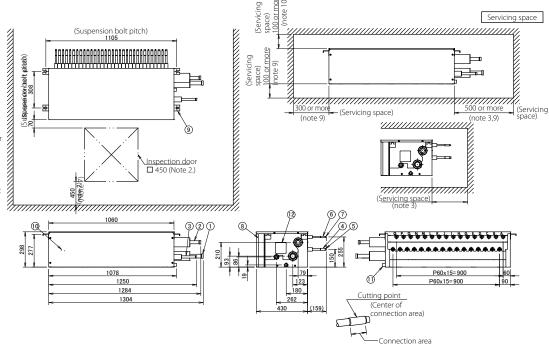
3D106411

BS16Q14AV1B

NOTES

- Be sure to install an inspection door at electric box side, another door is necessary to unload the product. - Install the BS box on a location where
- the refrigerant noise cannot disturbe the room occupants. To avoid that refrigerant noise disturbs
 - the people in the room, keep at least 5m piping between the occupied room and the BS box.

 - If there is no false ceiling at the room,
 - please add sound insulation around the piping between BS box and indoor unit, or keep much longer length
- between BS box and occupied room.
 Occupy the space which is possible to install field pipes.
- In case of connection with a 20~50 type indoor unit, there is no need to cut and connect as it is. In case of others, cut the outlet pipe and connect to the connecting pipe.
 Refer to figure above.
- Reducer may be required (field supply) if joint diameter does not suit on the triple piping side.
- Insulators are necessary (field supply)
- for the triple piping side.
 This space is a space to keep a top panel when servicing.
- Install it in a space which can be secured downwards slope of 1/100 or more.
- It is a space for removing the drain pan
- This is a space for removing a top panel when servicing.

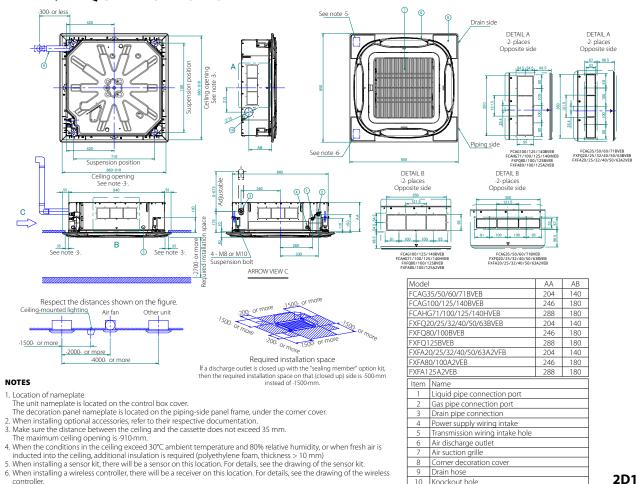


Item	Part name	Remark
1	Outdoor unit suction gas pipe connection port (note 5, 6)	ø 34.9 mm brazing connection
2	Outdoor unit HP/LP gas pipe connection port (note 5, 6)	ø 28.6 mm brazing connection
3	Outdoor unit liquid pipe connection port (note 5, 6)	ø 19.1 mm brazing connection
4	Indoor unit gas pipe connection port (note 4)	ø 15.9 mm brazing connection
5	Indoor unit gas pipe connection port (note 4)	ø 12.7 mm brazing connection
6	Indoor unit liquid pipe connection port (note 4)	ø 9.5 mm brazing connection
7	Indoor unit liquid pipe connection port (note 4)	ø 6.4 mm brazing connection
8	Electric box (note 1)	
9	Suspension brackets	M8~M10
10	Grounding terminal	M4
11	Socket for drain	VP20 (O.D.ø 26 mm / I.D.ø 20 mm)
12	Inspection hole	

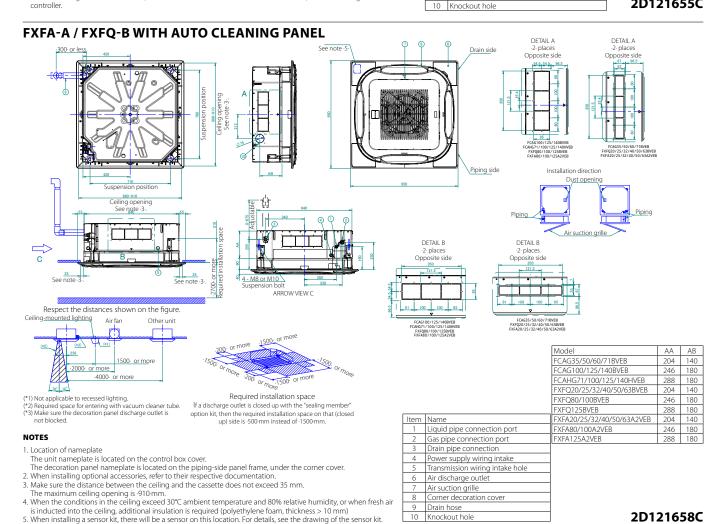
3D106412



FXFA-A / FXFQ-B WITH STANDARD PANEL

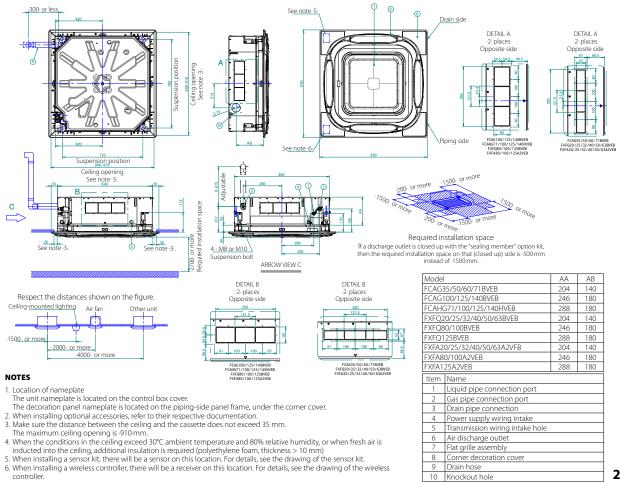


2D121655C



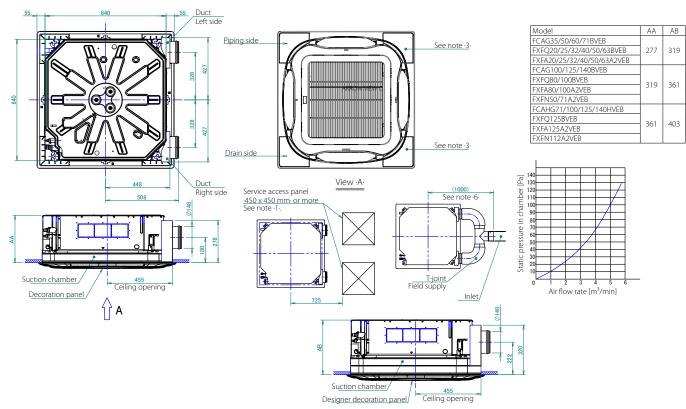
CLICK HERE TO VIEW ALL FXFA-A TECHNICAL DRAWINGS ON MY.DAIKIN.EU

FXFA-A / FXFQ-B WITH DESIGNER PANEL



2D121703C

FXFA-A / FXFQ-B WITH FRESH AIR INTAKE



NOTES

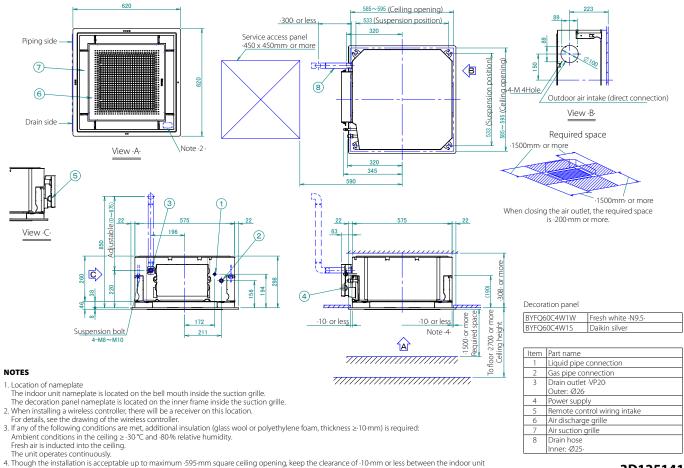
- When installing a fresh air intake kit, provide a service access panel.
- Field construction
- This corner discharge outlet needs to be closed.
 When installing a duct fan, use a wiring adapter to link the duct fan to the fan of the indoor unit.
 The intake air flow rate is recommended to be ≤20% of the air flow rate at high fan speed.
- If the intake air flow rate is too large, the operating sound may increase, and the detection of the indoor unit suction temperature may be affected.

 6. This indicates the distance between the T-joint inlet and the indoor unit inlet when the T-tube is connected.

3D121741C



FXZA-A / FXZQ-A NEW PANEL



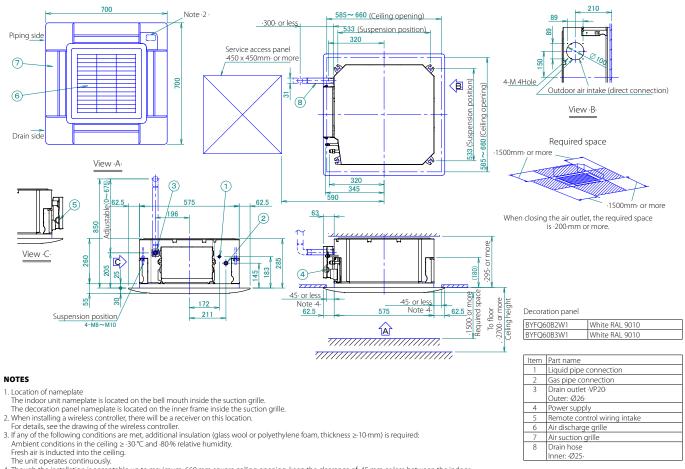
3D125141

Drain hose

3D125613



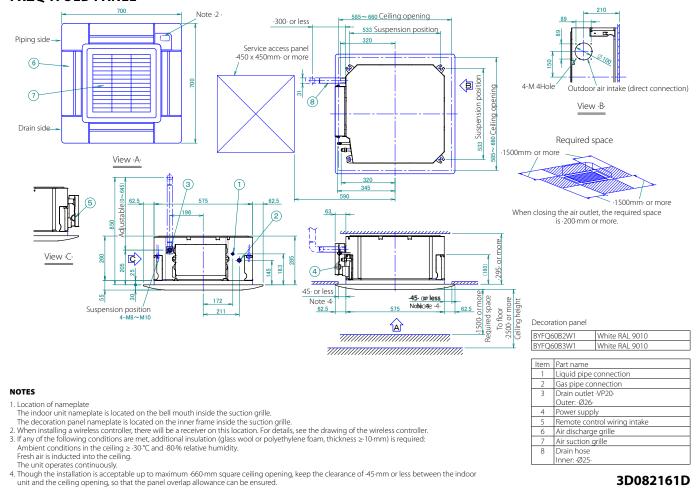
and the ceiling opening, so that the panel overlap allowance can be ensured.



4. Though the installation is acceptable up to maximum -660-mm square ceiling opening, keep the clearance of -45-mm or less between the indoor unit and the ceiling opening, so that the panel overlap allowance can be ensured.



FXZQ-A OLD PANEL

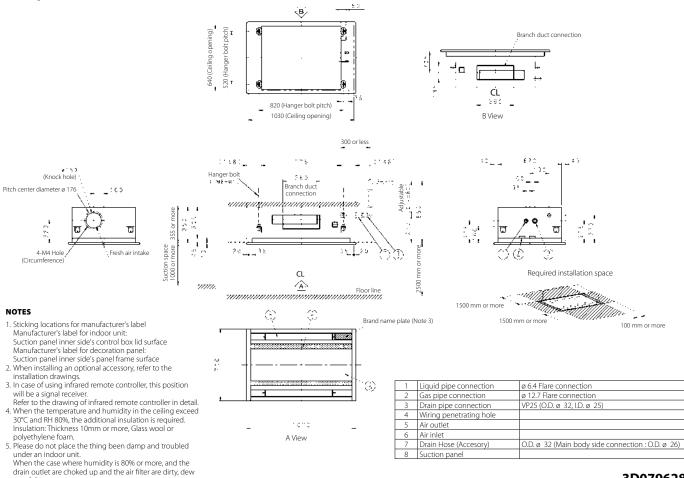


3D082161D

Inner: Ø25

CLICK HERE TO VIEW ALL FXCQ-A TECHNICAL DRAWINGS ON MY.DAIKIN.EU

FXCQ20-40A

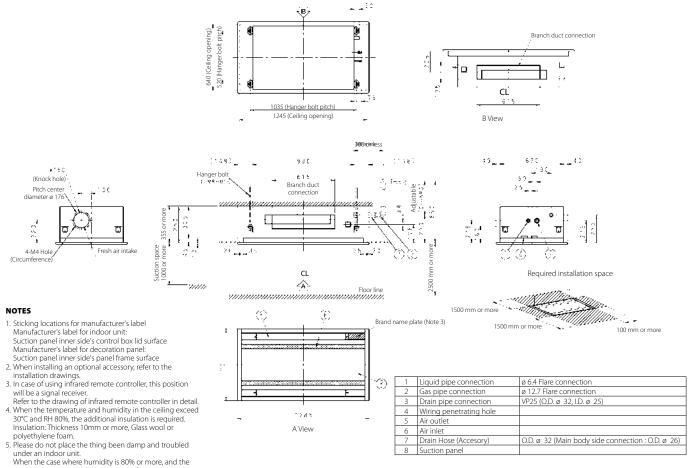


Suction panel

3D079628

FXCQ50A

may fall.

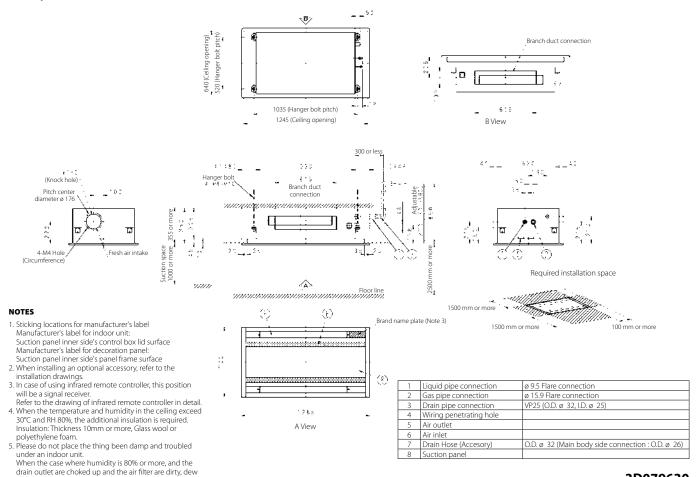


may fall.

drain outlet are choked up and the air filter are dirty, dew



FXCQ63A

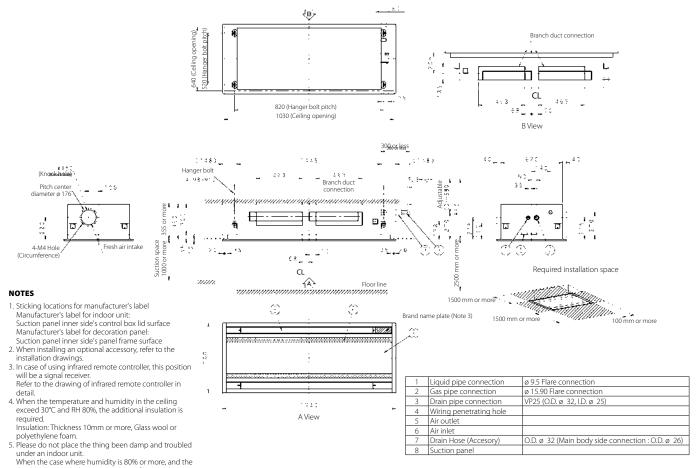


3D079630

FXCQ80-125A

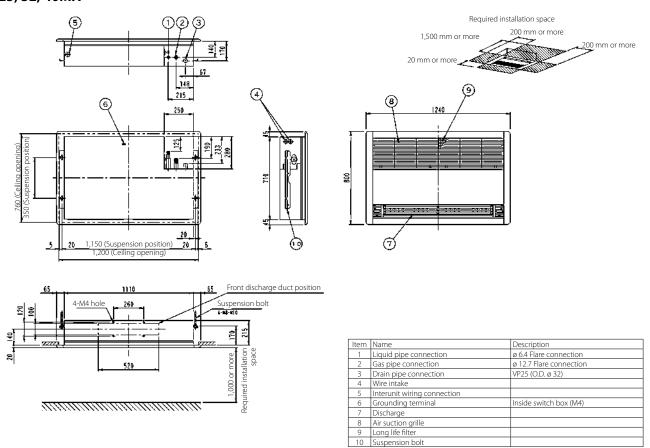
drain outlet are choked up and the air filter are dirty,

dew may fall.



CLICK HERE TO VIEW ALL FXKQ-MA TECHNICAL DRAWINGS ON MY.DAIKIN.EU

FXKQ25, 32, 40MA

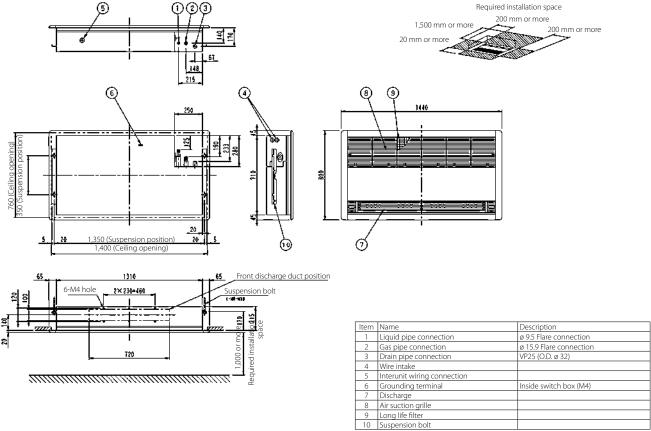


NOTES

- 1. Location of unit's name plate:
- For main body: Bottom part of fan housing inside of air suction grille.
 For decoration panel: Service lid face inside of air suction grille.
 When installing an optional accessory, refer to the installation drawings.

3D038840

FXKQ63MA

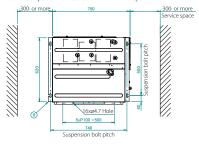


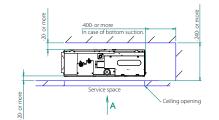
- 1. Location of unit's name plate:
- For main body: Bottom part of fan housing inside of air suction grille. For decoration panel: Service lid face inside of air suction grille.
- 2. When installing an optional accessory, refer to the installation drawings.

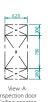


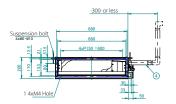
FXDA10-32A

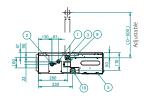
Service space of installation box for adaptor PCB.

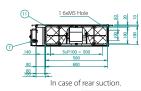


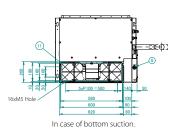


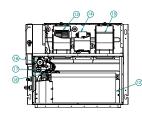












Item 1 Liquid pipe connection ·ø6.35· Flare connection Gas pipe connection ·ø9.52· Flare connection Drain pipe connection Outside diameter: •ø26-Inside diameter: •ø20-Drain hose (accessory) Inside diameter: -ø25-Transmission wiring connection Power supply connection 8 Suspension bracket Inspection door 10 Drain socket 11 Air filter (accessory)12 Heat exchanger Turbo fan 14 Fan motor Fan housing Drain pump Float switch Electronic expansion valve

NOTES

- 1. In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation manual,
- For more information, refer to the installation manual.

 2. In case of rear suction, mount the chamber cover to the bottom side of the unit. For more information, refer to the installation manual.

 3. The unit nameplate is located on the control box cover.

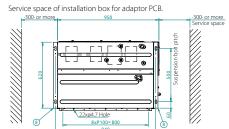
- 4. Mount the air filter at the suction side.

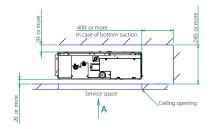
 Use an air filter with a dust collecting efficiency of at least -50% (measured by gravimetric analysis).

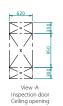
 When a duct is connected at the suction side, it is not possible to mount an air filter.

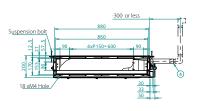
2D126395

FXDA40-50A

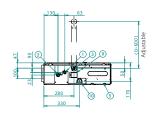


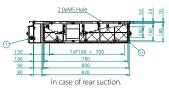


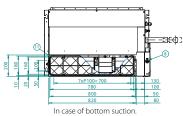


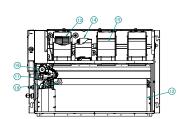


Suspension bolt pitch









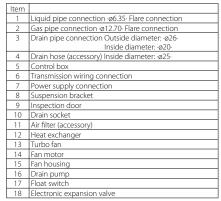
- 1. In case of bottom suction, mount the chamber cover to the backside of the unit.
- For more information, refer to the installation manual.

 2. In case of rear suction, mount the chamber cover to the bottom side of the unit.
- For more information, refer to the installation manual.

 3. The unit nameplate is located on the control box cover.

 4. Mount the air filter at the surting side.

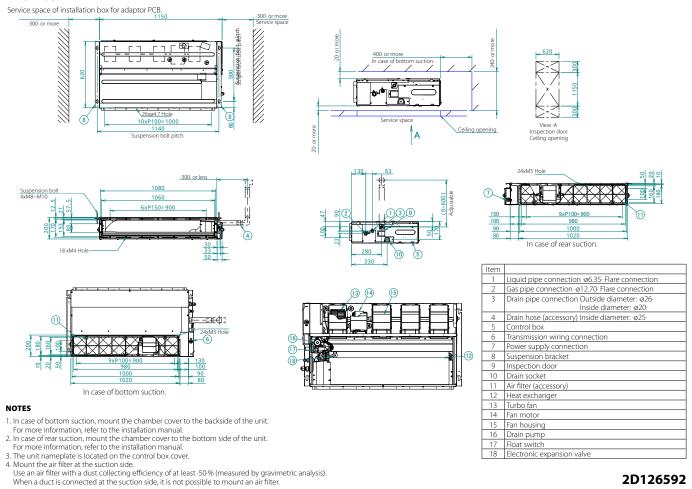
. Mount the air filter at the suction side.	
Use an air filter with a dust collecting efficiency of at least $\cdot 50\%$ (measured by gravimetric a When a duct is connected at the suction side, it is not possible to mount an air filter.	analysis).



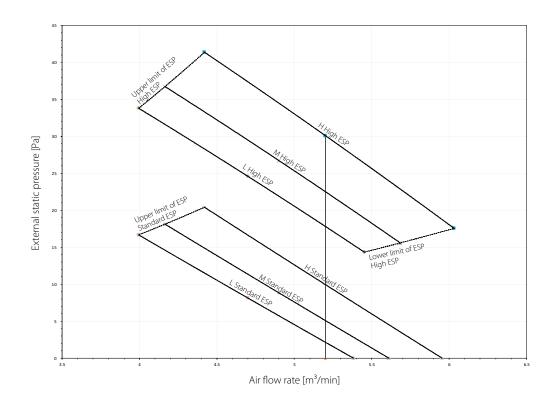
Detailed technical drawings



FXDA63A



FXDA10A

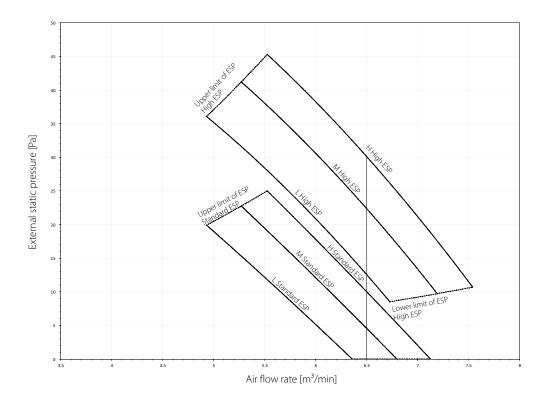


NOTES

- The fan characteristics shown are in "fan only" mode.
- ESP: External Static Pressure
- 3. The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

2D126592

FXDA15A

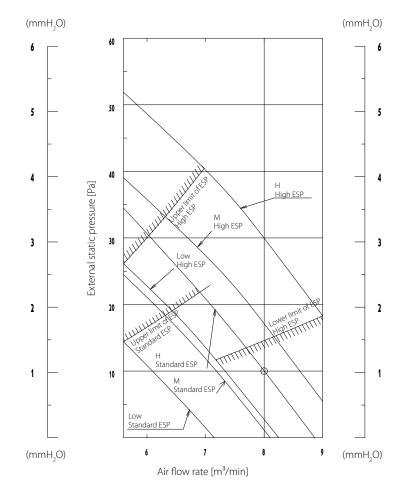


NOTES

- 1. The fan characteristics shown are in "fan only" mode.
- 2. ESP: External Static Pressure
- 3. The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D129553

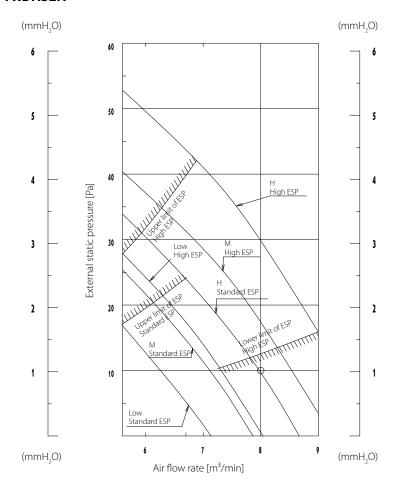
FXDA20-25A



- 1. The remote controller can be used to switch between 'high' and 'low'.
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.



FXDA32A

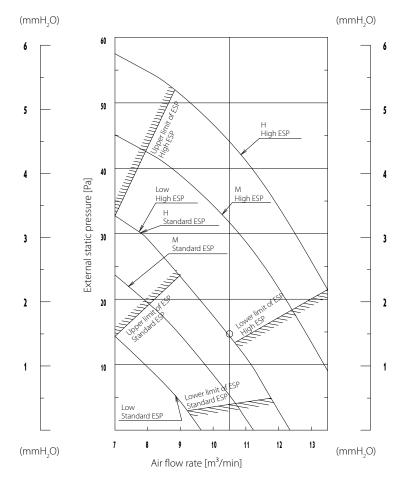


NOTES

- 1. The remote controller can be used to switch between 'high'
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D081425C

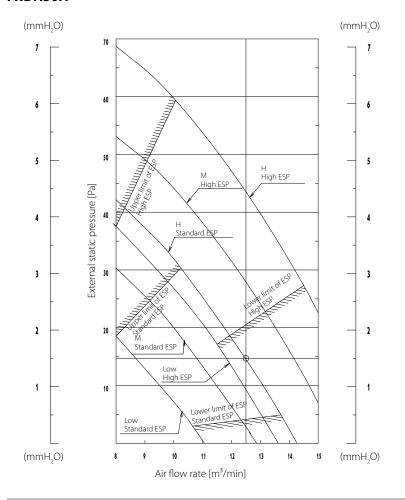
FXDA40A



- The remote controller can be used to switch between 'high' and 'low'.
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.



FXDA50A

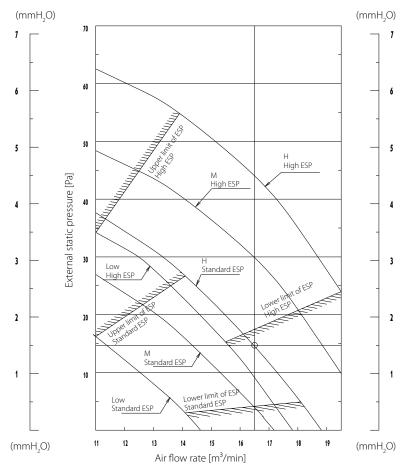


NOTES

- 1. The remote controller can be used to switch between 'high'
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D081427C

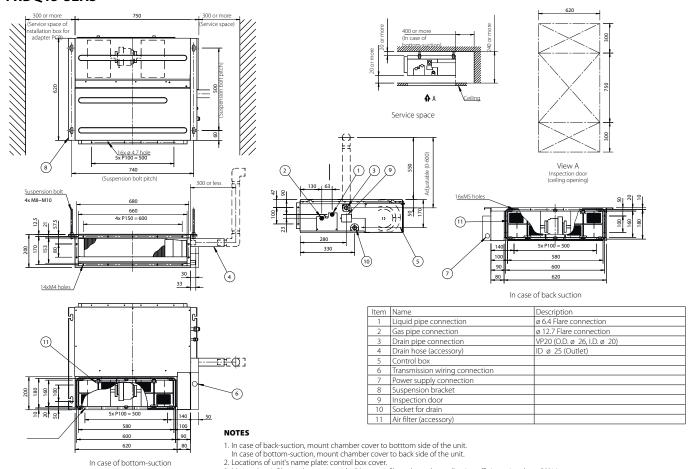
FXDA63A



- 1. The remote controller can be used to switch between 'high' and 'low'.
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

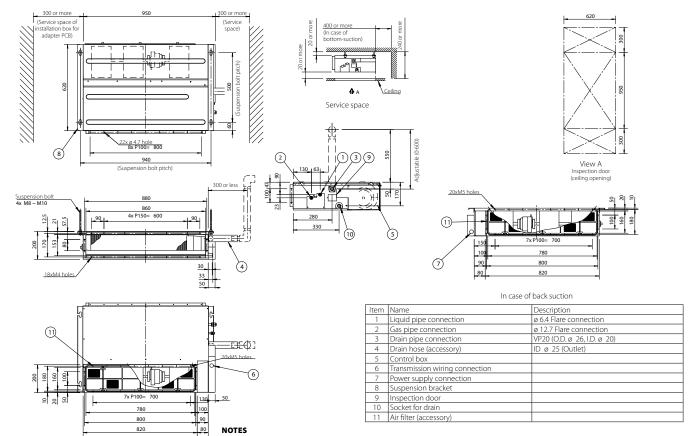
CLICK HERE TO VIEW ALL FXDQ-A3 TECHNICAL DRAWINGS ON MY.DAIKIN.EU

FXDQ15-32A3



FXDQ40-50A3

In case of bottom-suction



- In case of bottom-suction
- 1. In case of back-suction, mount chamber cover to botttom side of the unit.

- In case of bottom-suction, mount chamber cover to back side of the unit.

 2. Locations of unit's name plate: control box cover.

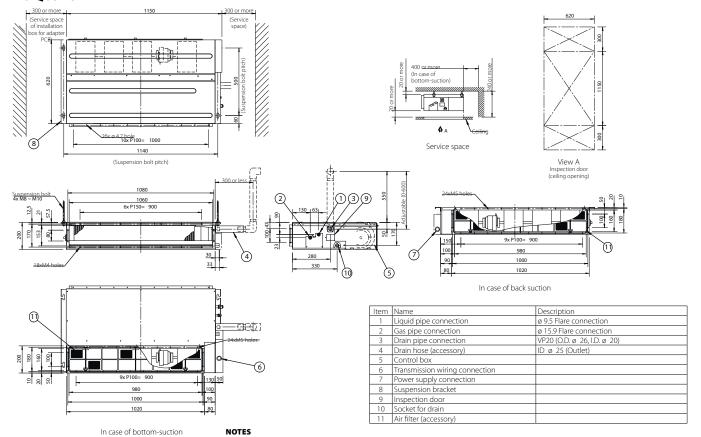
 3. Mount the air filter at the suction side. (Use an air filter whose dust collecting efficiency is at least 50% in a gravimetric technique). It can not be equipped with air filter (accessory) when connecting duct to suction side.

Mount the air filter at the suction side. (Use an air filter whose dust collecting efficiency is at least 50% in a gravimetric technique). It can not be equipped with air filter (accessory) when connecting duct to suction side.

3D081435



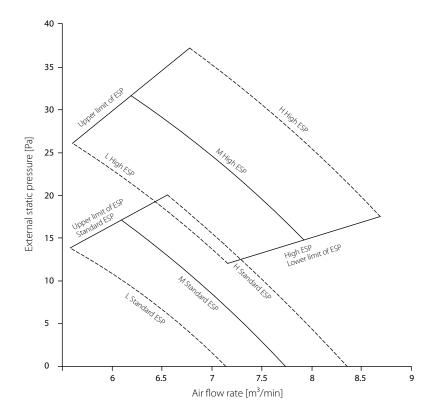
FXDQ63A3



- In case of back-suction, mount chamber cover to botttom side of the unit.
 In case of bottom-suction, mount chamber cover to back side of the unit.
 Locations of unit's name plate: control box cover.
 Mount the air filter at the suction side. (Use an air filter whose dust collecting efficiency is at least 50% in a gravimetric technique). It can not be equipped with air filter (accessory) when connecting duct to suction side.

3D081441

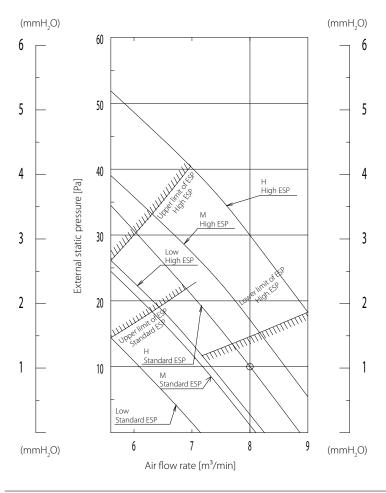
FXDQ15A3



- The remote controller can be used to switch between 'high' and 'low'.
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.



FXDQ20-25A3

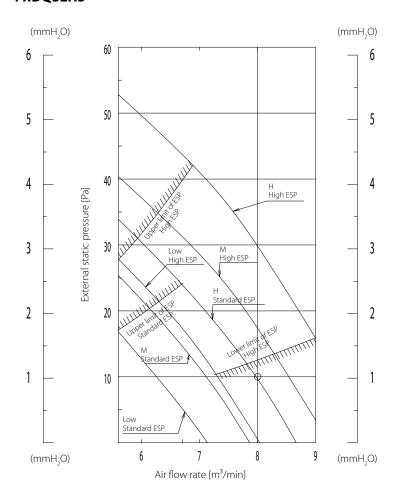


NOTES

- The remote controller can be used to switch between 'high' and 'low'
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D086736B

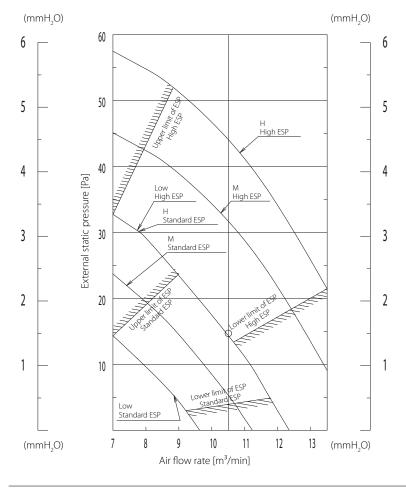
FXDQ32A3



- 1. The remote controller can be used to switch between 'high' and 'low'.
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.



FXDQ40A3

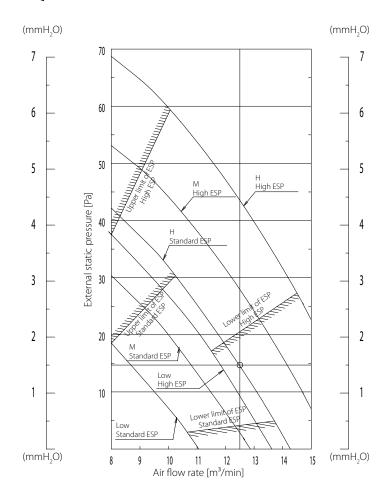


NOTES

- 1. The remote controller can be used to switch between 'high' and 'low'
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D081426C

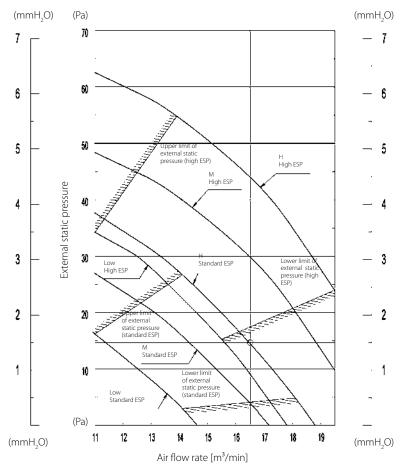
FXDQ50A3



- 1. The remote controller can be used to switch between 'high' and 'low'.
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.



FXDQ60A3



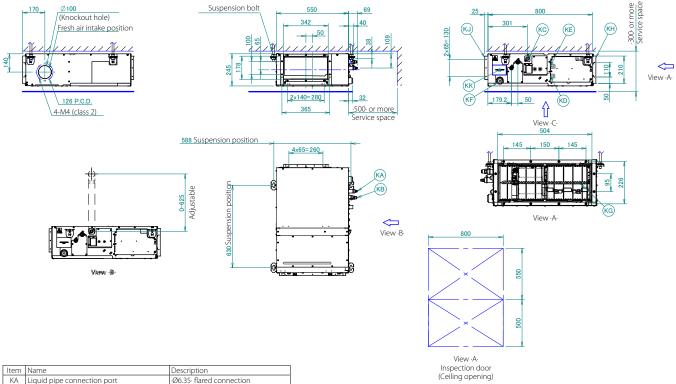
NOTES

- 1. Remote controller can be used to switch between 'HIGH' and 'LOW'. ('H', 'M' and 'L' for FDQ-A2VEB model)
- 2. The air flows is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.

3D081429C



FXSA15-32A



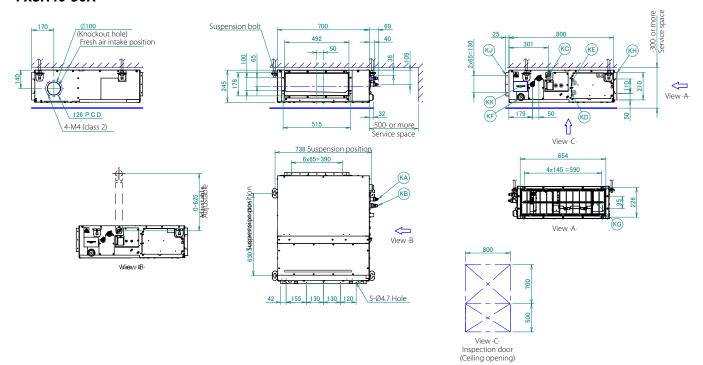
	·	
Item	Name	Description
KA	Liquid pipe connection port	·Ø6.35· flared connection
KB	Gas pipe connection port	·Ø9.52· flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

NOTES

- When installing optional accessories, refer to their respective documentation.
 The ceiling depth varies according to the documentation of the specific system.
 In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation manual.
 In case of rear suction, mount the chamber cover to the bottom side of the unit. For more information, refer to the installation manual.

3D128686A

FXSA40-50A



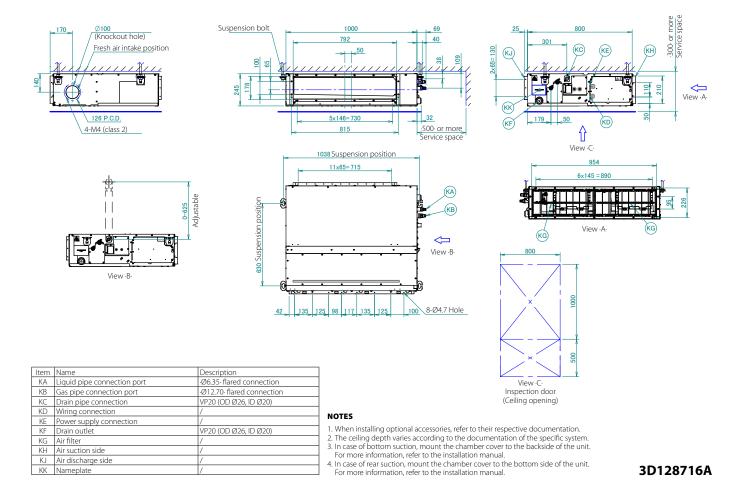
Item	Name	Description
KA	Liquid pipe connection port	·Ø6.35· flared connection
KB	Gas pipe connection port	-Ø12.70- flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

- . When installing optional accessories, refer to their respective documentation.
- The ceiling depth varies according to the documentation of the specific system.
 In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation manual.
- 4. In case of rear suction, mount the chamber cover to the bottom side of the unit. For more information, refer to the installation manual.

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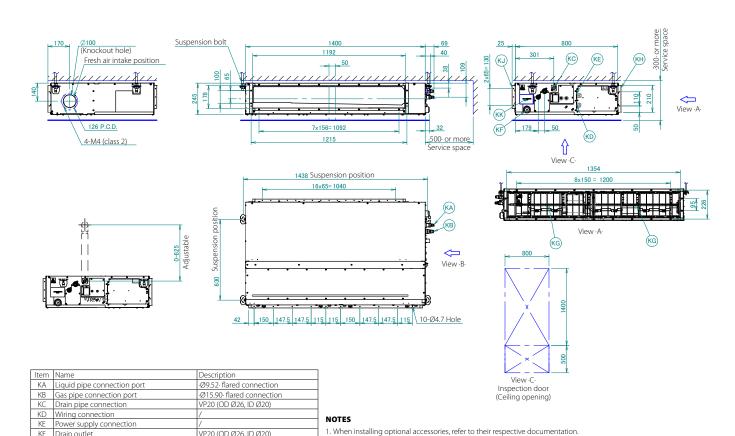
3D128716A

FXSA63-80A



FXSA100-125A

Nameplate



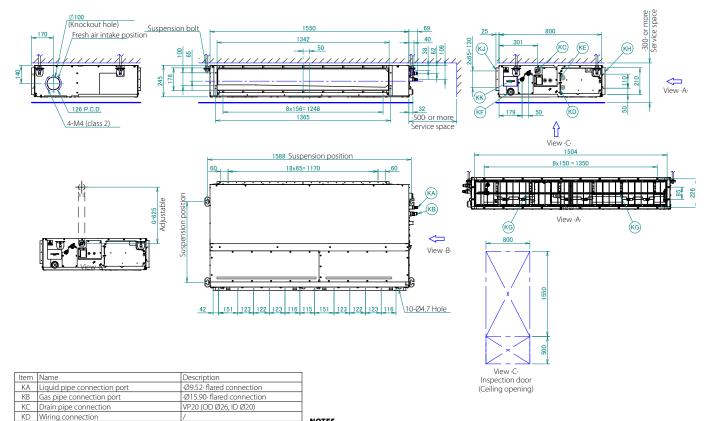
The ceiling depth varies according to the documentation of the specific system.
 In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation manual.

KF Drain outlet

KK Nameplate

KG Air filter KH Air suction side KJ Air discharge side

FXSA140A



NOTES

VP20 (OD Ø26, ID Ø20)

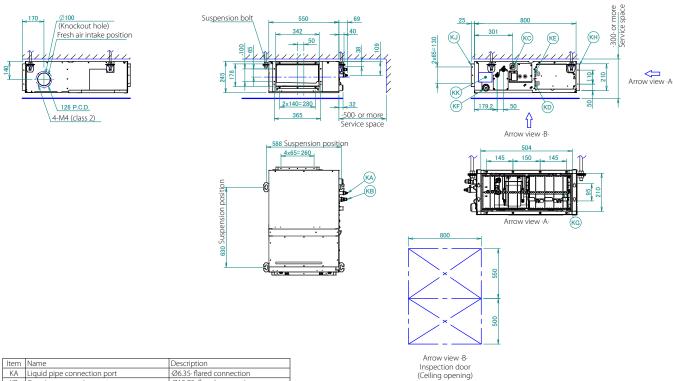
- When installing optional accessories, refer to their respective documentation.
 The ceiling depth varies according to the documentation of the specific system.
 In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation manual.
- For more information, refer to the installation manual.

3D128720A

FXSQ15-32A

KF Drain outlet KG Air filter KH Air suction side
KJ Air discharge side KK Nameplate

KE Power supply connection



Item	Name	Description
KA	Liquid pipe connection port	·Ø6.35· flared connection
KB	Gas pipe connection port	·Ø12.70· flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

1. When installing optional accessories, refer to their respective documentation.

2. The ceiling depth varies according to the documentation of the specific system.

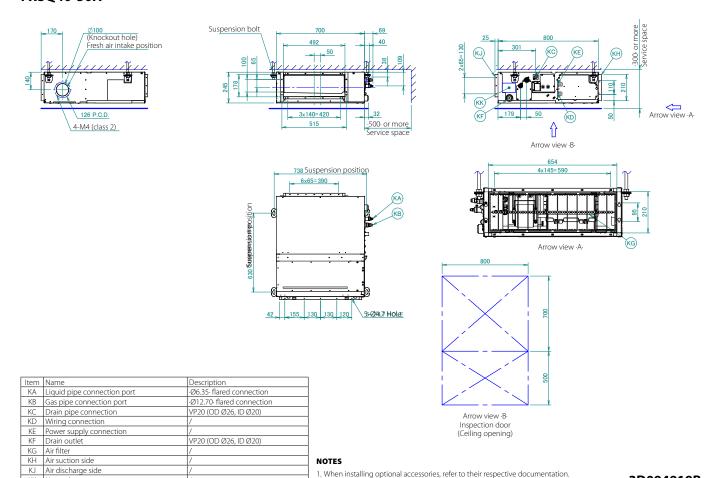
3D094888B

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3D094919B

3D094916B

FXSQ40-50A

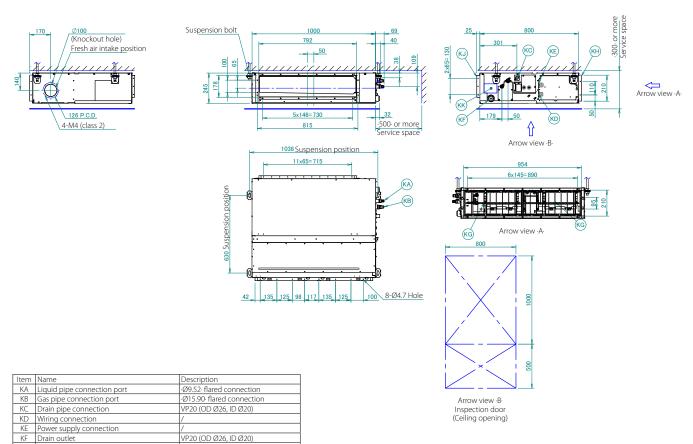


2. The ceiling depth varies according to the documentation of the specific system.

1. When installing optional accessories, refer to their respective documentation. 2. The ceiling depth varies according to the documentation of the specific system.

FXSQ63-80A

KK Nameplate

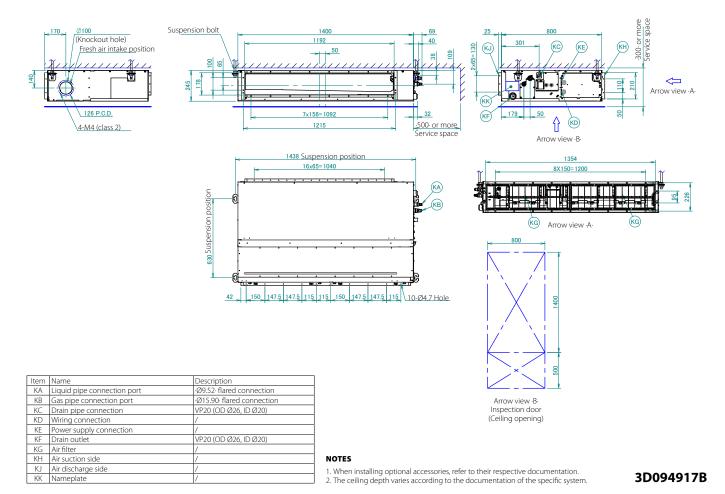


KG Air filter
KH Air suction side
KJ Air discharge side

KK Nameplate



FXSQ100-125A

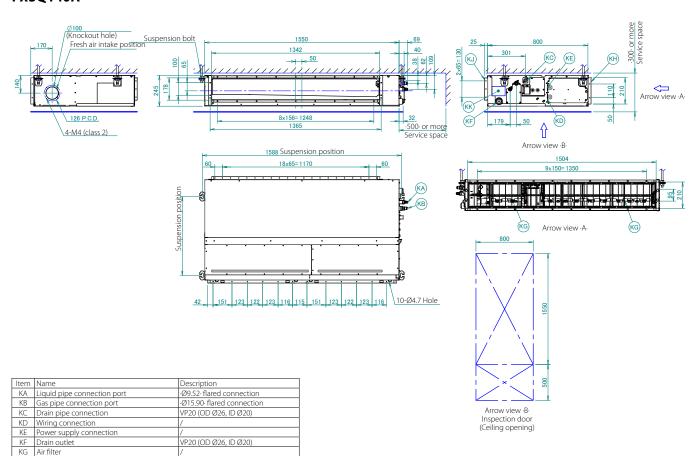


FXSQ140A

KH Air suction side

KK Nameplate

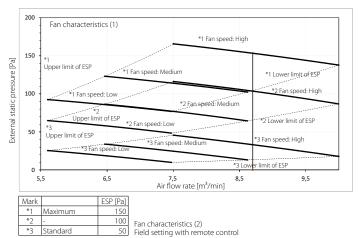
KJ Air discharge side

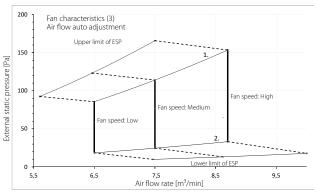


- 1. When installing optional accessories, refer to their respective documentation. 2. The ceiling depth varies according to the documentation of the specific system.

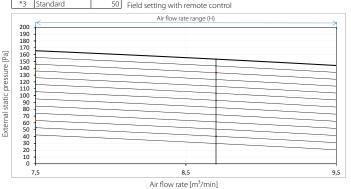
CLICK HERE TO VIEW ALL FXSA-A TECHNICAL DRAWINGS ON MY.DAIKIN.EU

FXSQ15A FXSA15A





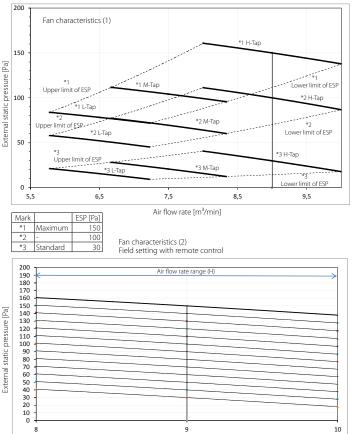
- Upper limit of ESP by air flow auto adjustment
 Lower limit of ESP by air flow auto adjustment



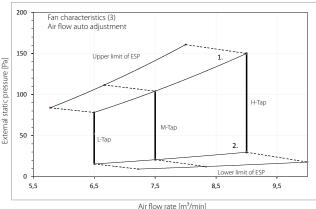
- 1. The fan characteristics shown are in "fan only" mode.
- 2. ESP: External Static Pressure

3D096999B

FXSQ20-25A FXSA20-25A



Air flow rate [m³/min]

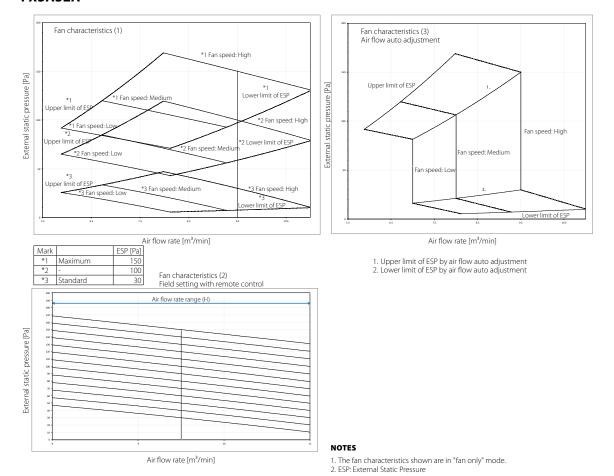


- 1. Upper limit of ESP by air flow auto adjustment 2. Lower limit of ESP by air flow auto adjustment

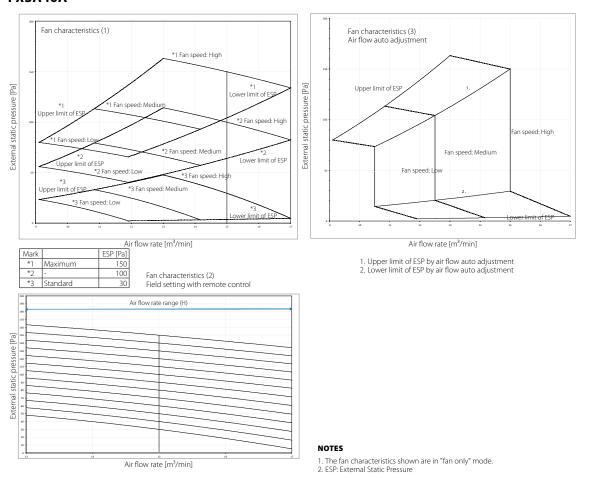
- 1. The fan characteristics shown are in "fan only" mode. 2. ESP: External Static Pressure
- 3D095680B



FXSQ32A FXSA32A

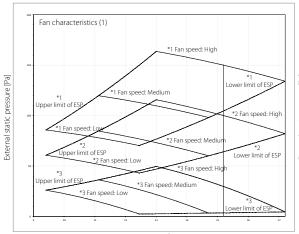


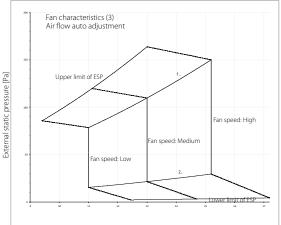
FXSQ40A FXSA40A



3D095681B

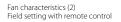
FXSQ50A FXSA50A

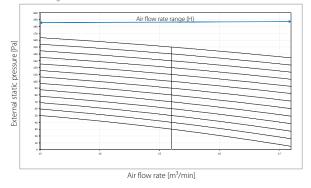




Air flow rate [m³/min]

Air flow rate [m³/min]





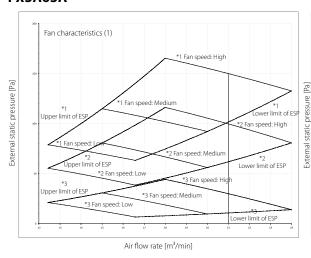
- 1. Upper limit of ESP by air flow auto adjustment 2. Lower limit of ESP by air flow auto adjustment

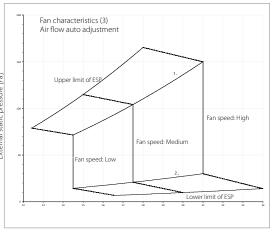
Λ	1ark		ESP [Pa]
	*1	Maximum	150
	*2	-	100
Г	*3	Standard	30

- 1. The fan characteristics shown are in "fan only" mode.
- 2. ESP: External Static Pressure

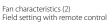
3D095688B

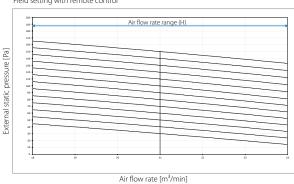
FXSQ63A FXSA63A





Air flow rate [m³/min]





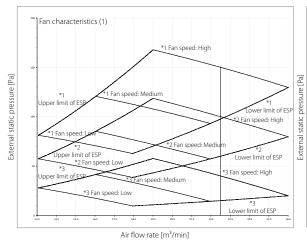
1.	Upper	limit	of ESP	by	air	flow	auto	adjustn	nen
2.	Lower	limit of	of FSP	hν	air	flow	auto	adiustn	nent

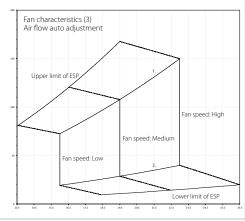
Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	30

- 1. The fan characteristics shown are in "fan only" mode. 2. ESP: External Static Pressure



FXSQ80A FXSA80A





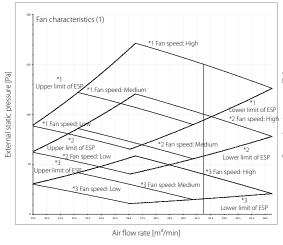
Air flow rate [m³/min]

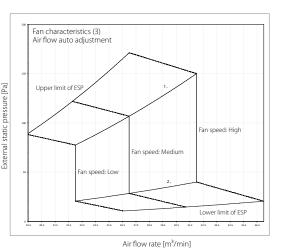
- Fan characteristics (2) Field setting with remote control
- Air flow rate range (H) External static pressure [Pa] Air flow rate [m³/min]
- Upper limit of ESP by air flow auto adjustment
 Lower limit of ESP by air flow auto adjustment
- Mark 150 100

- 1. The fan characteristics shown are in "fan only" mode.
- 2. ESP: External Static Pressure

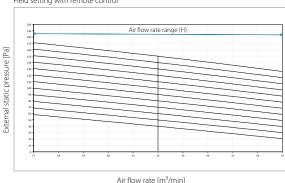
3D095692B

FXSQ100A FXSA100A





Field setting with remote control

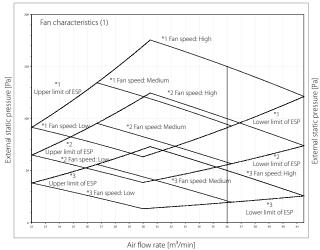


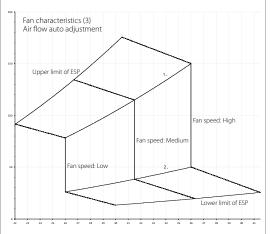
- Upper limit of ESP by air flow auto adjustment
 Lower limit of ESP by air flow auto adjustment

Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	40

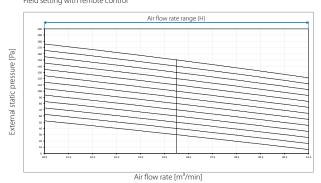
- 1. The fan characteristics shown are in "fan only" mode. 2. ESP: External Static Pressure

FXSQ125A FXSA125A





Fan characteristics (2) Field setting with remote control



1. Upper limit of ESP by air flow auto adjustment 2. Lower limit of ESP by air flow auto adjustment

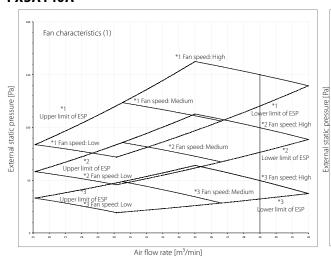
Air flow rate [m³/min]

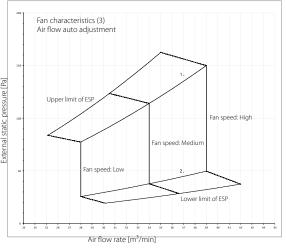
Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	50

- 1. The fan characteristics shown are in "fan only" mode.
- 2. ESP: External Static Pressure

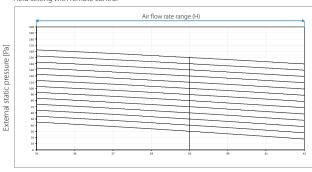
3D095697B

FXSQ140A FXSA140A





Fan characteristics (2) Field setting with remote control



Air flow rate [m3/min]

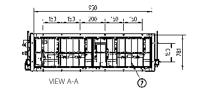
- Upper limit of ESP by air flow auto adjustment
 Lower limit of ESP by air flow auto adjustment

Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	50

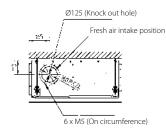
- 1. The fan characteristics shown are in "fan only" mode. 2. ESP: External Static Pressure

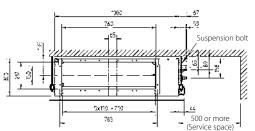


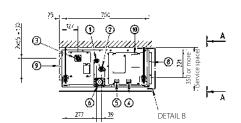
FXMA50A / FXMQ50P7

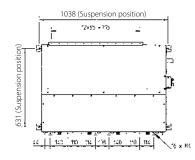












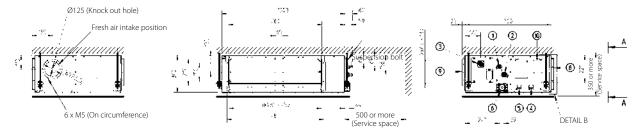
Item	Name	Description
1	Liquid pipe connection port	
2	Gas pipe connection port	
3	Drain pipe connection	VP25 (0D Ø32, ID Ø25)
4	Remote control wiring connection	-
5	Power supply connection	-
6	Drain hole	VP20 (0D Ø32, ID Ø25)
7	Air filter	-
8	Air suction side	-
9	Air discharge side	-
10	Nameplate	-

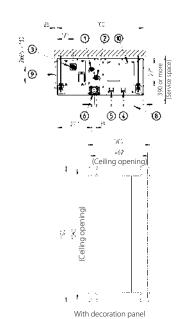
NOTES

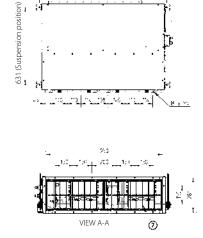
- Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.
 The required ceiling depth varies according to the configuration of the specific system.
 For maintenance of the air filter, it is necessary to provide a service access panel.
 Refer to the filter installation method' drawing.

3TW32694-1

FXMA 63-80A / FXMQ63-80P7





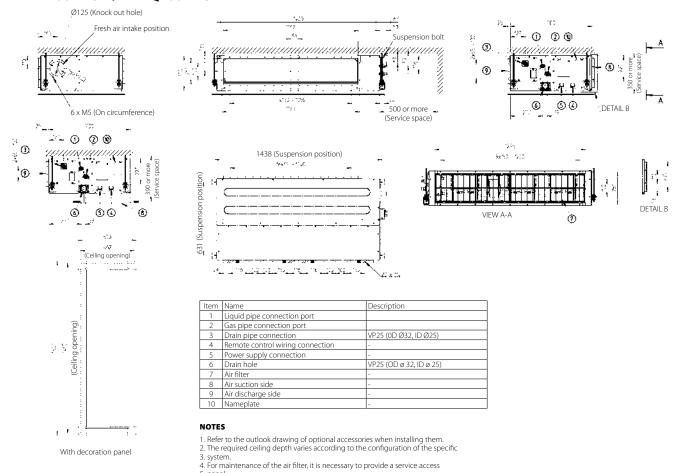


1038 (Suspension position) 7x55 715

Item	Name	Description
1	Liquid pipe connection port	
2	Gas pipe connection port	
3	Drain pipe connection	VP25 (0D Ø32, ID Ø25)
4	Remote control wiring connection	-
5	Power supply connection	-
6	Drain hole	VP20 (0D Ø32, ID Ø25)
7	Air filter	-
8	Air suction side	-
9	Air discharge side	-
10	Namenlate	_

- Refer to the outlook drawing of optional accessories when installing them.
 The required ceiling depth varies according to the configuration of the specific.
- S. system.
 For maintenance of the air filter, it is necessary to provide a service access 5. panel.
 Optional decoration panel: BYBS71DJW1 (light ivory white 10Y9/0.5)

FXMA100-125A / FXMQ100-125P7



6. Optional decoration panel: BYBS125DJW1 (light ivory white 10Y9/0.5)

FXMA200A

1572 (9) 1526 Inspection hole 600 or more Approx. 150 1143 or more (service space) 1028 10 \mathfrak{I} 650 or more 12×100=1200 (<u>a</u>)

Piping size (Field supply)

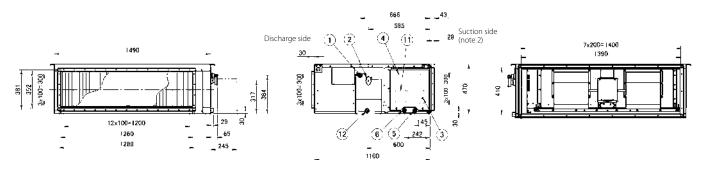
Indoor unit	Gas side	Liquid side
FXMA200A	Ø 19.1 attached piping	Ø 9.5

3TW31254-1B

NOTE

- Location of unit's manufacturer's label: Control box surface.
 Mount the air filter at the suction side.
 (Select its dust collection efficiency (gravity method) 50% or more.)

nadumber	IName	Description
1	Liquid pipe connection port	Flare connection
2	Gas pipe connection	Attendant piping connection
3	Ground terminal	M5 (inside control box)
4	Control box	
5	Power supply wiring connection	
6	Transmision wiring connection	
7	Hook	M10
8	Discharge flange	
9	Suction flange	
10	Attached piping	Brazing
11	Manufacturer's label	
12	Drain piping connection	PSP 1 inch internal thread Major dia. ø33.3 Minor dia. ø30.3
13	Pre-filter service cover	



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FXMA250A Piping size (Field supply)

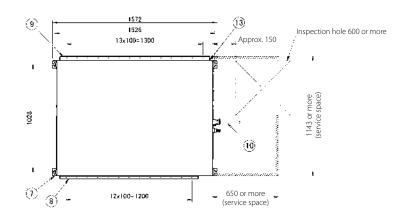
Indoor unit	Gas side	Liquid side
FXMA250A	Ø 22.2 attached piping	Ø 9.5

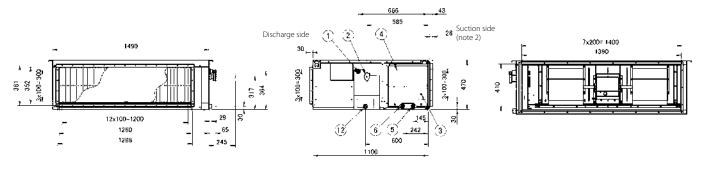
NOTE

- 1. Location of unit's manufacturer's label: Control box surface.

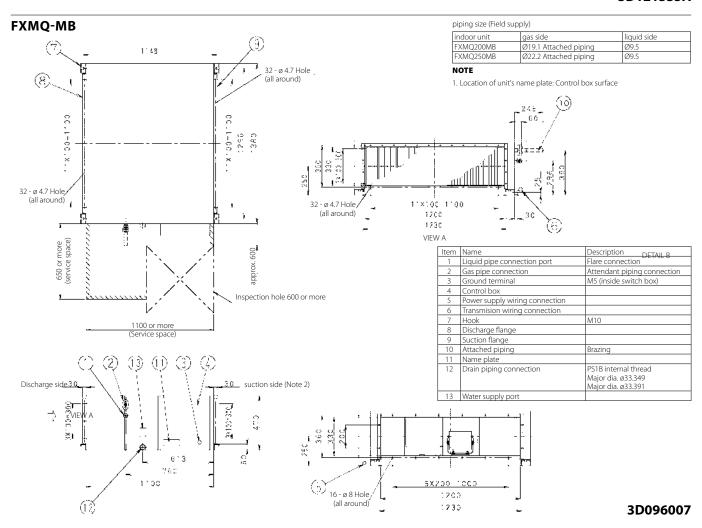
2. Mount the air filter at the suction side. (Select its dust collection efficiency (gravity method) 50% or more.)

Number	Name	Description
1	Liquid pipe connection port	Flare connection
2	Gas pipe connection	Attendant piping connection
3	Ground terminal	M5 (inside control box)
4	Control box	
5	Power supply wiring connection	
6	Transmision wiring connection	
7	Hook	M10
8	Discharge flange	
9	Suction flange	
10	Attached piping	Brazing
11	Manufacturer's label	
12	Drain piping connection	PSP 1 inch internal thread Major dia. ø33.3 Minor dia. ø30.3
13	Pre-filter service cover	





3D121335A



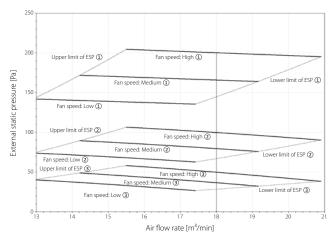


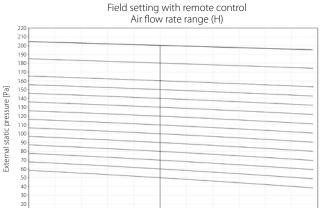
Lower limit of ESP

18

20

FXMA50A





18.0 18.5 19.0 19.5 20.0 20.5 21.0

Air flow rate [m³/min]

External static pressure [Pa]

Air flow auto adjustment

Air flow rate [m³/min] Upper limit of ESP by air flow auto adjustment
 Lower limit of ESP by air flow auto adjustment

Mark		ESP [Pa]
1	Maximum	200
2	Standard	100
(3)	Minimum	50

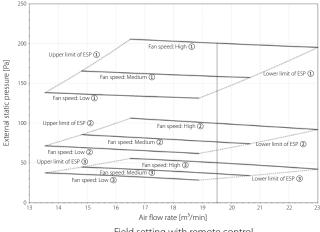
- 1. The fan characteristics shown are in "fan only" mode. 2. ESP: External static pressure

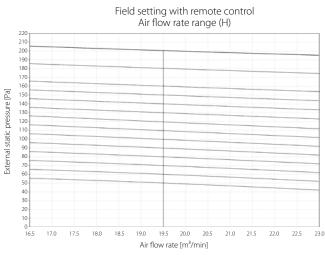
4D139872

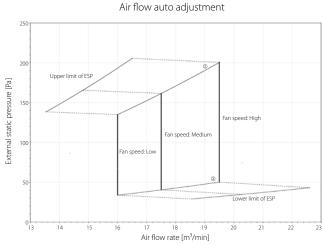
FXMA63A

15.5

16.0 16.5 17.0







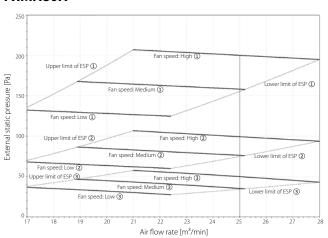
Upper limit of ESP by air flow auto adjustment Lower limit of ESP by air flow auto adjustment

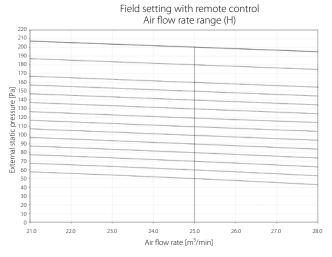
Mark		ESP [Pa]
1	Maximum	200
2	Standard	100
3	Minimum	50

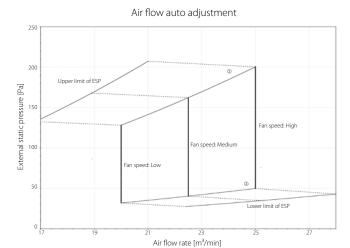
- 1. The fan characteristics shown are in "fan only" mode.
- 2. ESP: External static pressure



FXMA80A







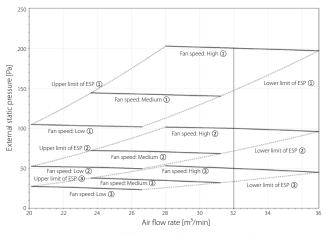
① Upper limit of ESP by air flow auto adjustment ② Lower limit of ESP by air flow auto adjustment

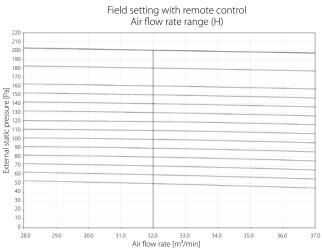
	Mark		ESP [Pa]
	1	Maximum	200
ĺ	2	Standard	100
	3	Minimum	50

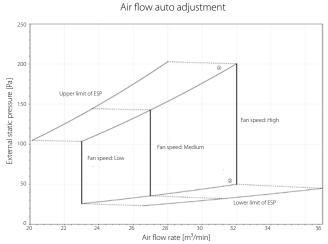
- 1. The fan characteristics shown are in "fan only" mode. 2. ESP: External static pressure

4D139872









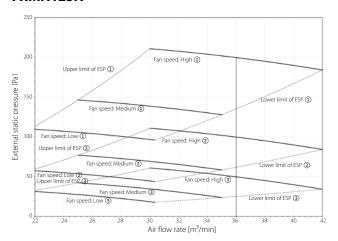
Upper limit of ESP by air flow auto adjustment Lower limit of ESP by air flow auto adjustment

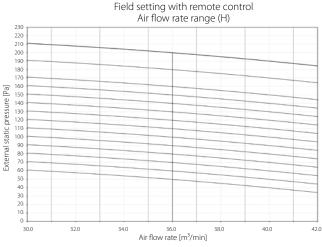
Mark		ESP [Pa]
1	Maximum	200
2	Standard	100
3	Minimum	50

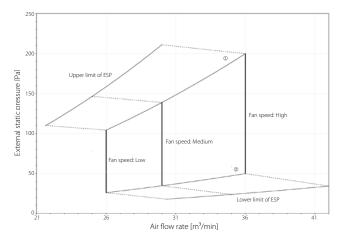
- 1. The fan characteristics shown are in "fan only" mode.
- 2. ESP: External static pressure

CLICK HERE TO VIEW ALL FXMA-A TECHNICAL DRAWINGS ON MY.DAIKIN.EU

FXMA125A







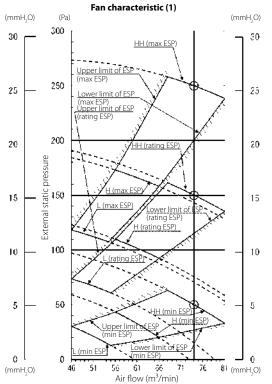
Upper limit of ESP by air flow auto adjustment Upper limit of ESP by air flow auto adjustment
 Lower limit of ESP by air flow auto adjustment

Mark		ESP [Pa]
1	Maximum	200
2	Standard	100
3	Minimum	50

- The fan characteristics shown are in "fan only" mode.
- ESP: External static pressure

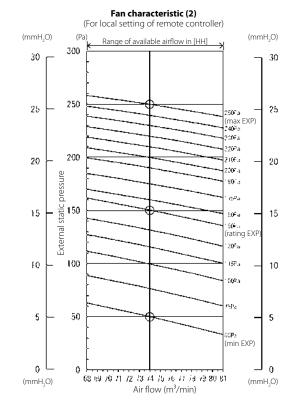
4D139872





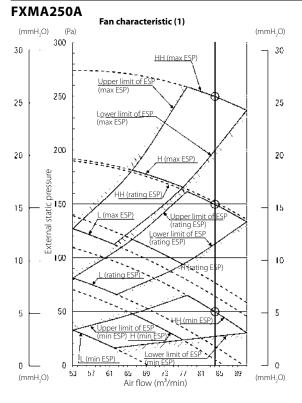
- 1. As for this machine, setting is possible by 15 positions of ESP.
 2. Fan characteristics (1) shows a fan characteristics at the time of "maximum ESP", "rating ESP", "minimum ESP" as a representative.
- as a representative.

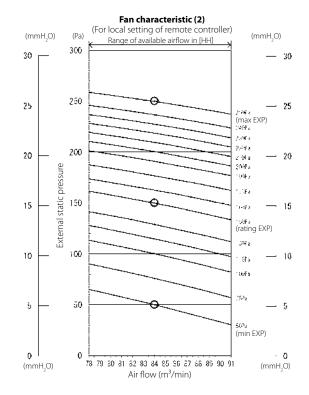
 3. Fan characteristics (2) (for field setting of remote controller) shows a fan characteristics of each ESP of field setting possible air flow rate "HH".



- 4. Please choose air flow rate by fan characteristics (1) and fan characteristics (2) by the resistance of a
- connected duct.

 5. A remote controller can be used to change air flow rate of "HH", "H" and "L".





NOTES

- 1. As for this machine, setting is possible by 15 positions of ESP.
 2. Fan characteristics (1) shows a fan characteristics at the time of "maximum ESP", "rating ESP",
- "minimum ESP" as a representative.

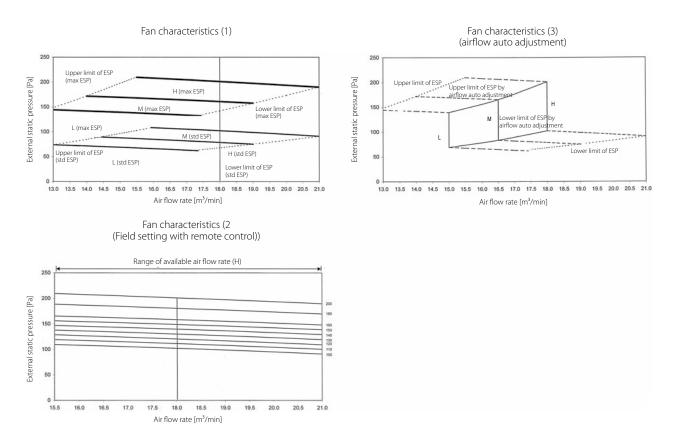
 3. Fan characteristics (2) (for field setting of remote controller) shows a fan characteristics of each ESP of field setting possible air flow rate "HH".
- 4. Please choose air flow rate by fan characteristics (1) and fan characteristics (2) by the resistance of a connected duct.
- or a connected duct.

 5. A remote controller can be used to change air flow rate of "HH", "H" and "L".

 6. ESP: External static pressure.

3D119002

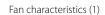
FXMQ50P7

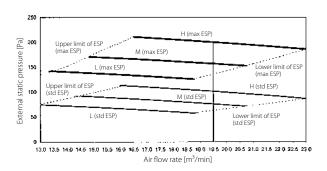


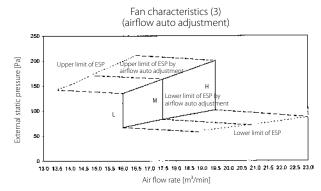
- 1. Fan characteristics as shown are in "fan only" mode.
- ESP: External static pressure

CLICK HERE TO VIEW ALL FXMQ-P7 TECHNICAL DRAWINGS ON MY.DAIKIN.EU

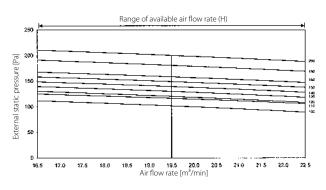
FXMQ63P7







Fan characteristics (2 (Field setting with remote control))



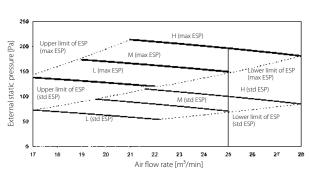
NOTES 1. Fan characteristics as shown are in "fan only" mode.

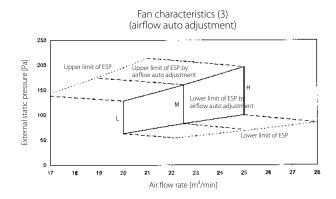
2. ESP: External static pressure

3TW32708-1

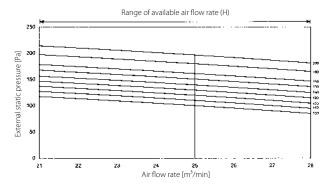
FXMQ80P7







Fan characteristics (2 (Field setting with remote control))

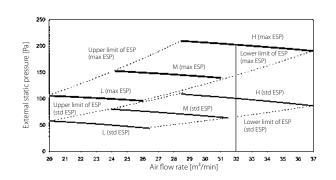


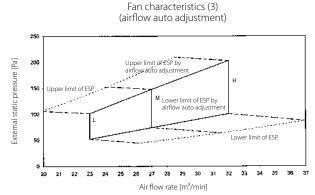
- 1. Fan characteristics as shown are in "fan only" mode.
- 2. ESP: External static pressure



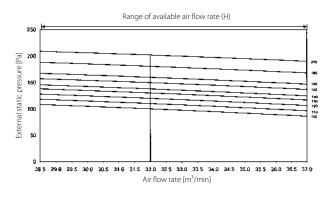
FXMQ100P7

Fan characteristics (1)





Fan characteristics (2 (Field setting with remote control))



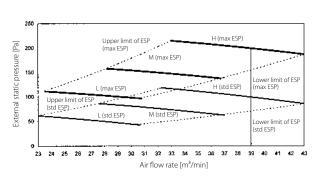
NOTES

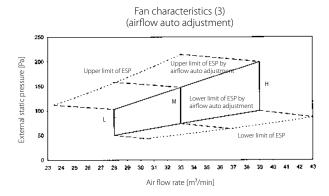
- Fan characteristics as shown are in "fan only" mode.
- 2. ESP: External static pressure

3TW32728-1

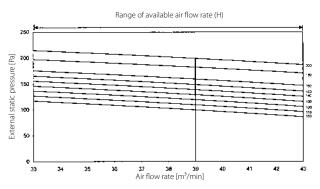
FXMQ125P7

Fan characteristics (1)





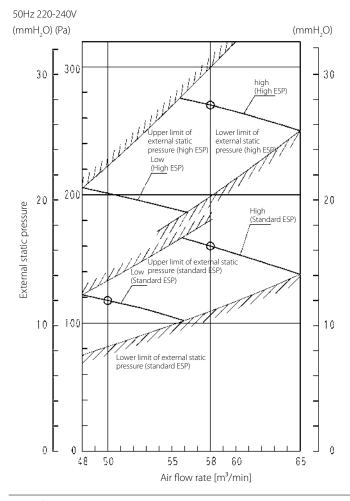
Fan characteristics (2 (Field setting with remote control))



- Fan characteristics as shown are in "fan only" mode.
 ESP: External static pressure



FXMQ200MB

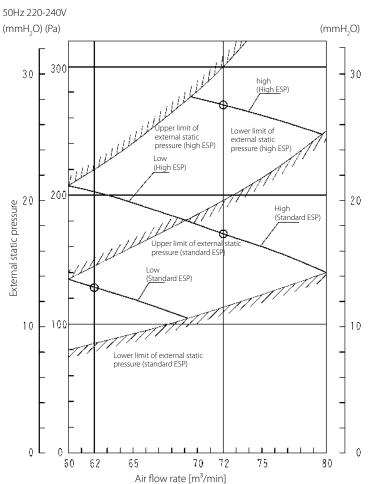


NOTES

- 1. Remote controller can be used to switch between 'HIGH' and 'LOW'.
- The air flows is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.

4D095421

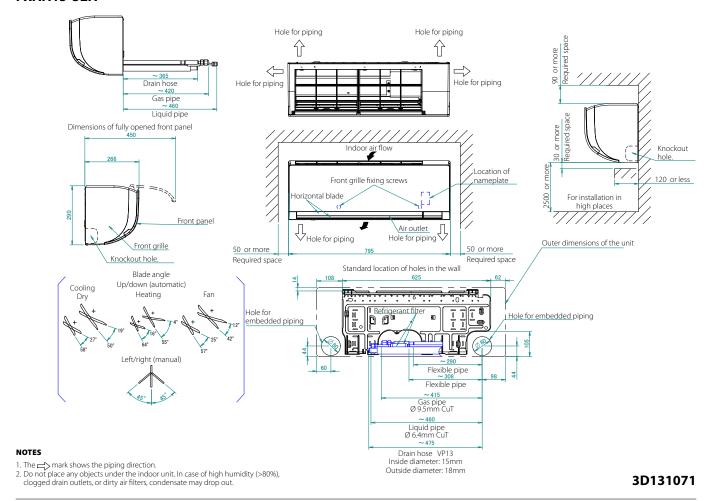
FXMQ250MB



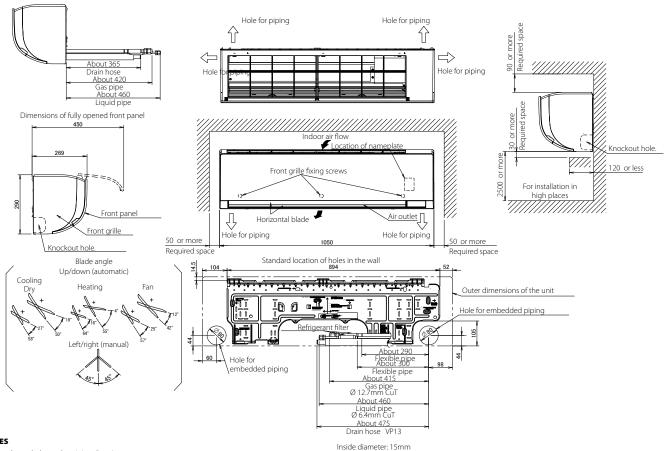
- Remote controller can be used to switch between 'HIGH' and 'LOW'.
- The air flows is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.



FXAA15-32A



FXAA40-63A

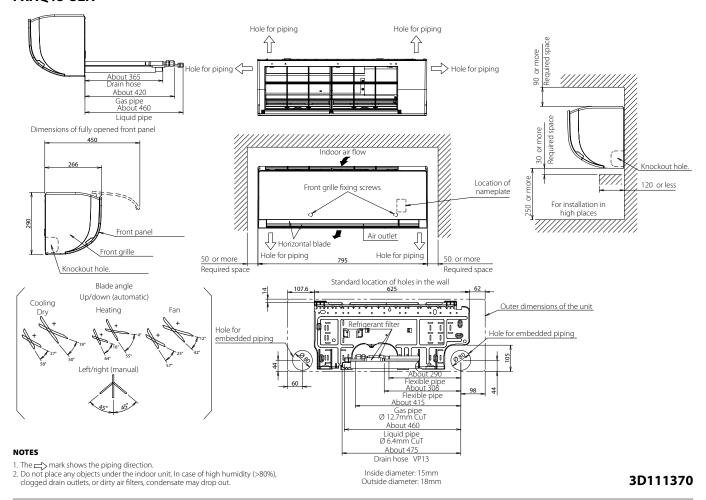


Outside diameter: 18mm

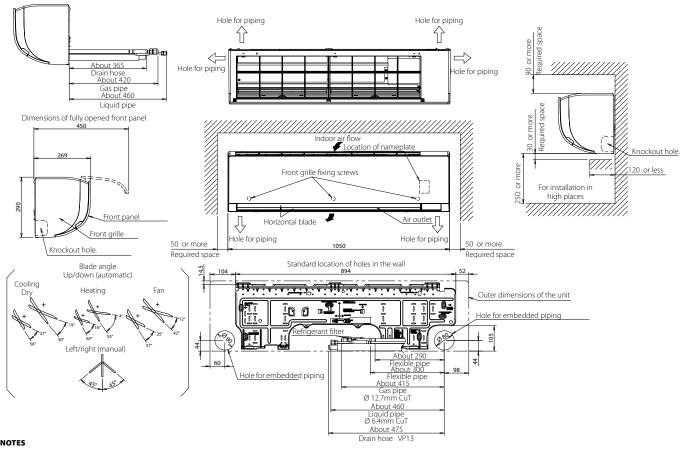
- 1. The \(\rightarrow\) mark shows the piping direction.
 2. Do not place any objects under the indoor unit. In case of high humidity (>80%), clogged drain outlets, or dirty air filters, condensate may drop out

CLICK HERE TO VIEW ALL FXAQ-A TECHNICAL DRAWINGS ON MY.DAIKIN.EU

FXAQ15-32A



FXAQ40-50A

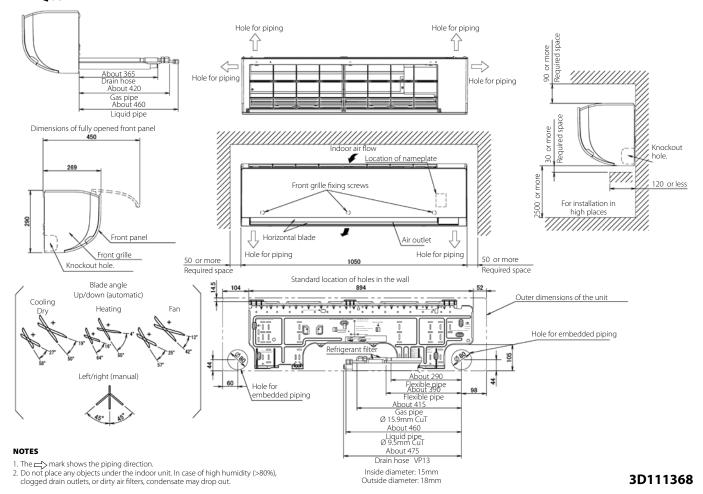


- 1. The \Longrightarrow mark shows the piping direction. 2. Do not place any objects under the indoor unit. In case of high humidity (>80%), clogged drain outlets, or dirty air filters, condensate may drop out

Inside diameter: 15mm Outside diameter: 18mm



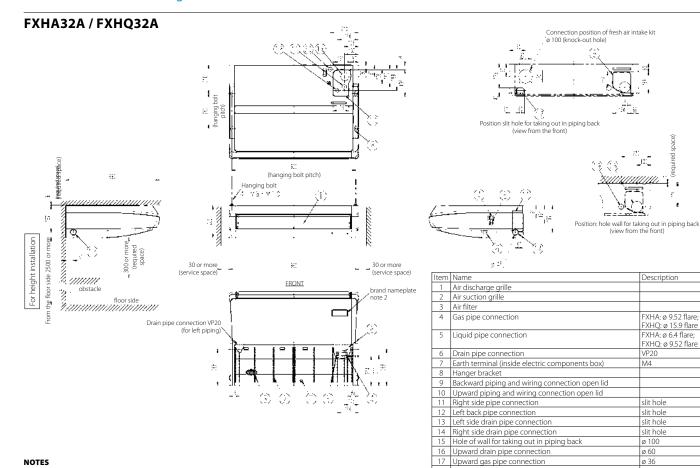
FXAQ63A



18 Upward liquid pipe connection

Power source wiring and unit wiring back connection

20 Power source wiring and unit wiring upper connection



3D080029

Description

FXHA: ø 9.52 flare; FXHQ: ø 15.9 flare

FXHA: ø 6.4 flare; FXHQ: ø 9.52 flare

M4

slit hole slit hole slit hole

slit hole

ø 100

ø 60

ø 36

ø 26

ø 29

ø 29

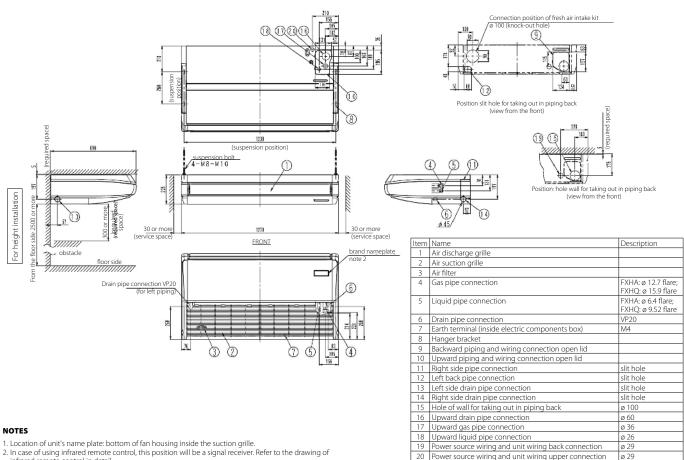
FXHA50-63A / FXHQ63A

1. Location of unit's name plate: bottom of fan housing inside the suction grille

2. In case of using infrared remote control, this position will be a signal receiver. Refer to the drawing of infrared remote control in detail.

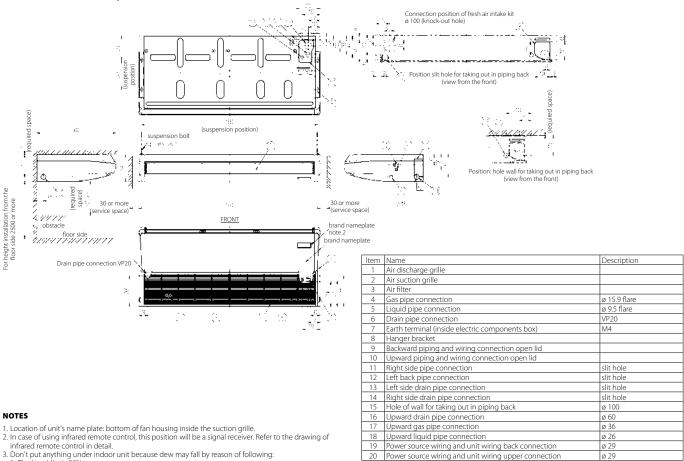
3. Please do not place the thing been damp and troubled under an indoor unit. When the case where

humidity is 80% or more, the drain outlet are choked up and the air filter are dirty, dew may fall.



- infrared remote control in detail.
- Please do not place the thing been damp and troubled under an indoor unit. When the case where humidity is 80% or more, the drain outlet are choked up and the air filter are dirty, dew may fall.

FXUA100A / FXUQ100A

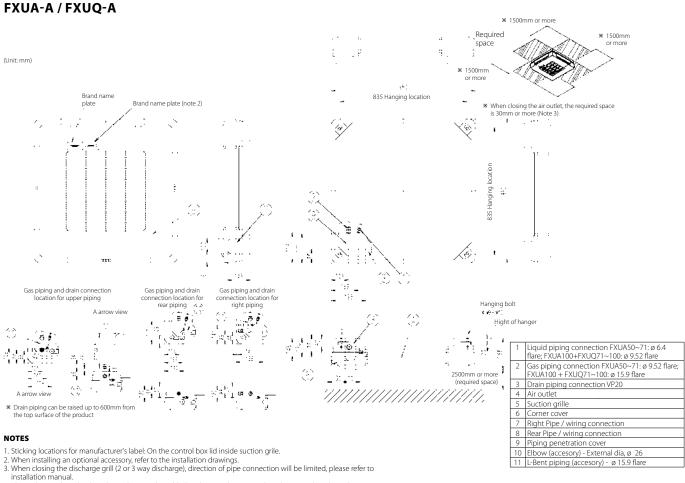


- 3. Don't put anything under indoor unit because dew may fall by reason of following:

 1. The humidity is 80% or more.

 2. The drain outlet is stopped up.
- 3. he air filter is dirty.

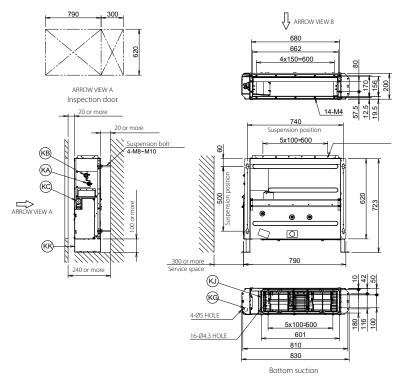
3D069633D

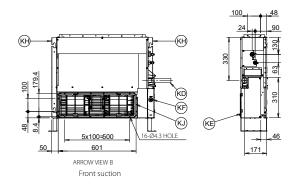


- 4. Please do not place the thing been damp and troubled under an indoor unit. When the case where humidity in more 80% or more, and drain outlet are choked up and the air filter are dirty, dew may fail.

CLICK HERE TO VIEW ALL FXNQ-A TECHNICAL DRAWINGS ON MY.DAIKIN.EU

FXNQ20-32A





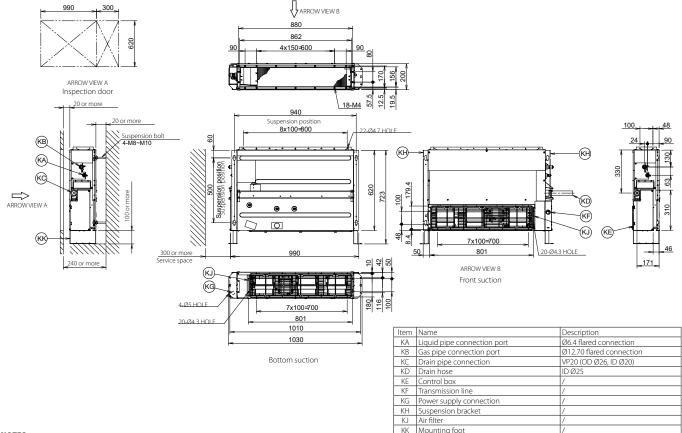
Item	Name	Description
KA	Liquid pipe connection port	Ø6.40 flared connection
KB	Gas pipe connection port	Ø12.7 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Drain hose	ID Ø25
KE	Control box	/
KF	Transmission line	/
KG	Power supply connection	/
KH	Suspension bracket	/
KJ	Air filter	/
KK	Mounting foot	/

NOTES

- 1. When installing optional accessories, refer to their respective documentation.
 2. The ceiling depth varies according to the documentation of the specific system.

3D096749A

FXNQ40-50A

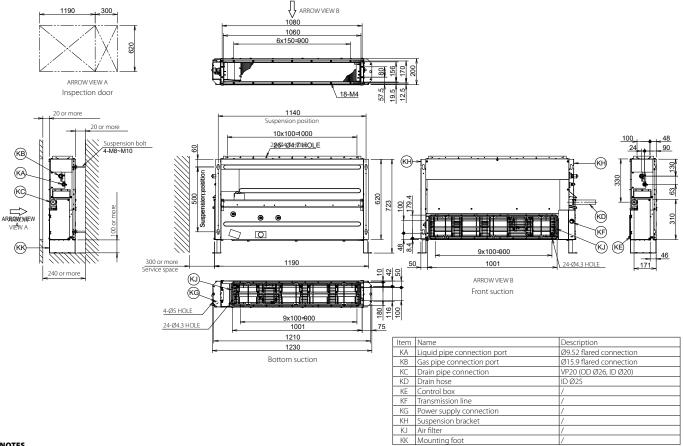


1. When installing optional accessories, refer to their respective documentation. 2. The ceiling depth varies according to the documentation of the specific system.

3D096747



FXNQ63A

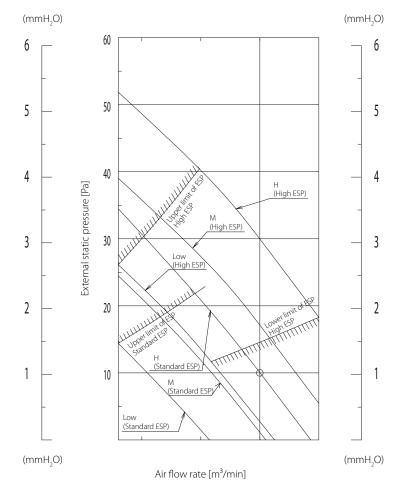


NOTES

- 1. When installing optional accessories, refer to their respective documentation.
 2. The ceiling depth varies according to the documentation of the specific system.

3D096740A

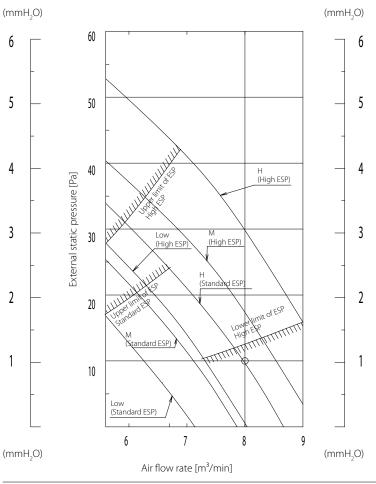
FXNQ20-25A



- The remote controller can be used to switch between 'high' and 'low'.
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting..



FXNQ32A

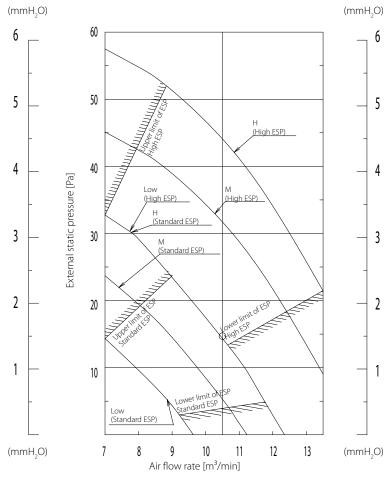


NOTES

- The remote controller can be used to switch between 'high' and 'low'.
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting..

3D081425C

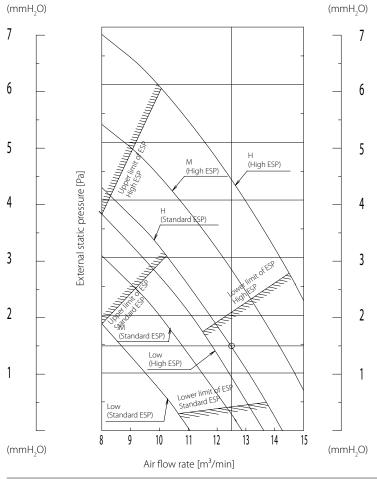
FXNQ40A



- 1. The remote controller can be used to switch between 'high' and 'low'.
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.



FXNQ50A

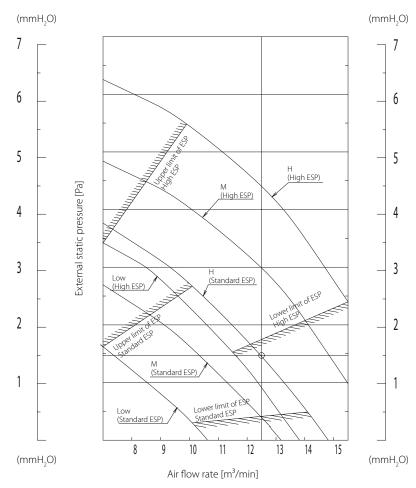


NOTES

- The remote controller can be used to switch between 'high' and 'low'.
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting...

3D081427C

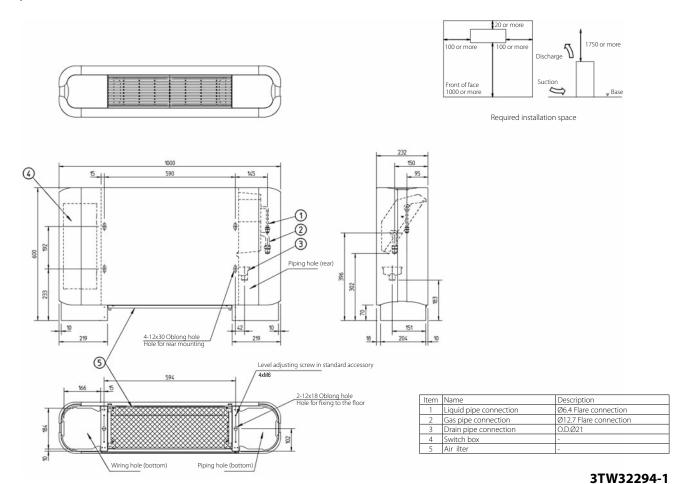
FXNQ63A



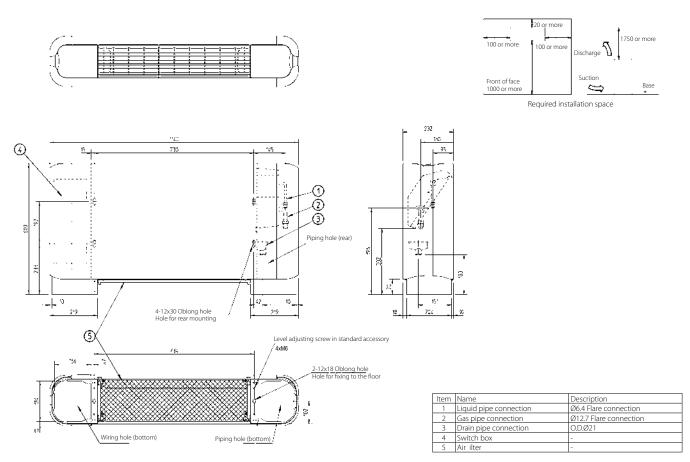
- 1. The remote controller can be used to switch between 'high' and 'low'.
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting..

CLICK HERE TO VIEW ALL FXLQ-P TECHNICAL DRAWINGS ON MY.DAIKIN.EU

FXLQ20-25P

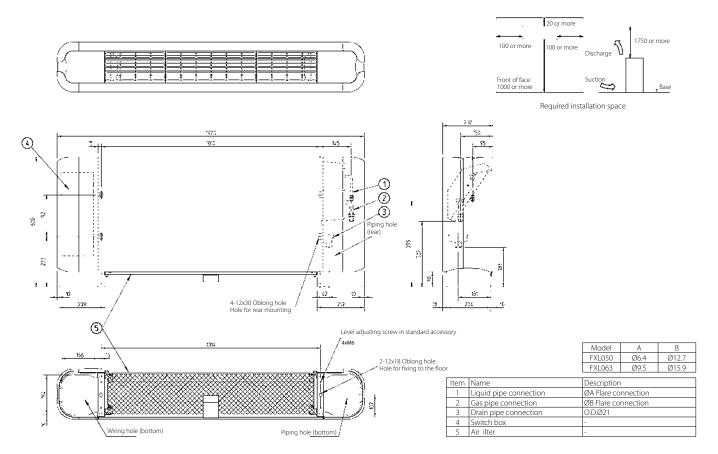


FXLQ32-40P

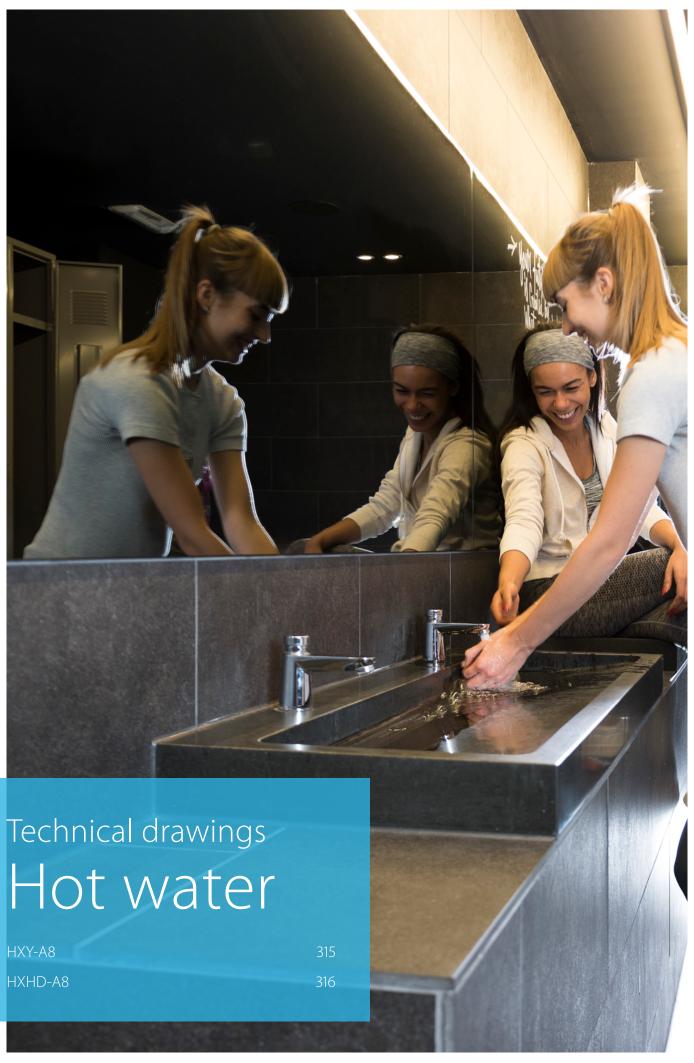




FXLQ50-63P

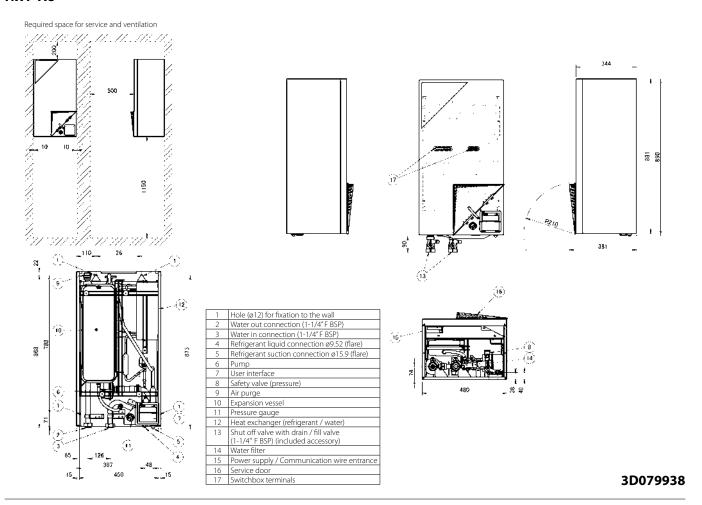


3TW32334-1

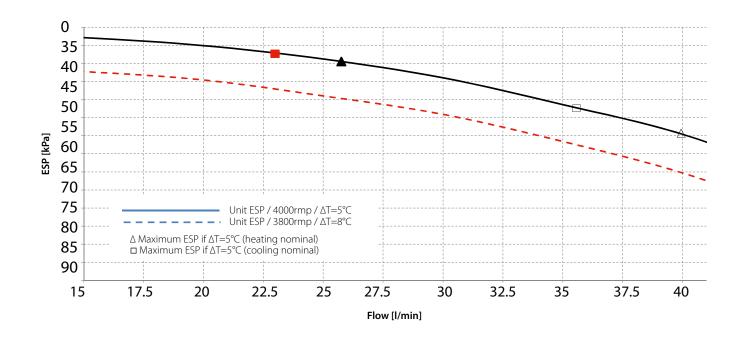




HXY-A8



HXY-A8

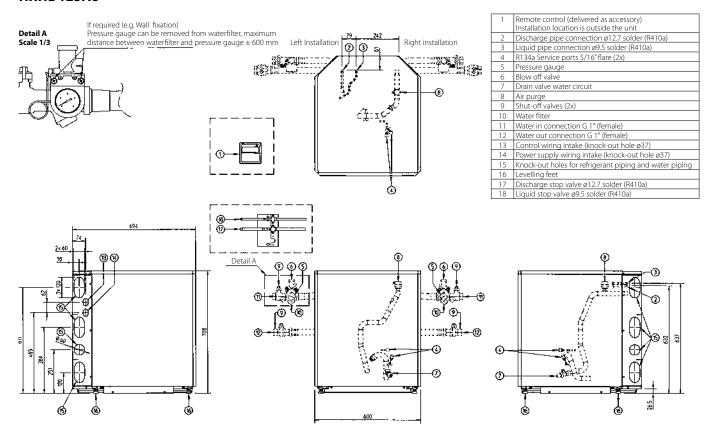


ESP: External Static Pressure Flow: Water flow through the unit

- Selecting a flow outside the operating area can damage the unit or cause the unit to malfunction. See also the minimum and maximum allowed water flow range in the technical specications. Water quality must be according to EU directive 98/83 EC.

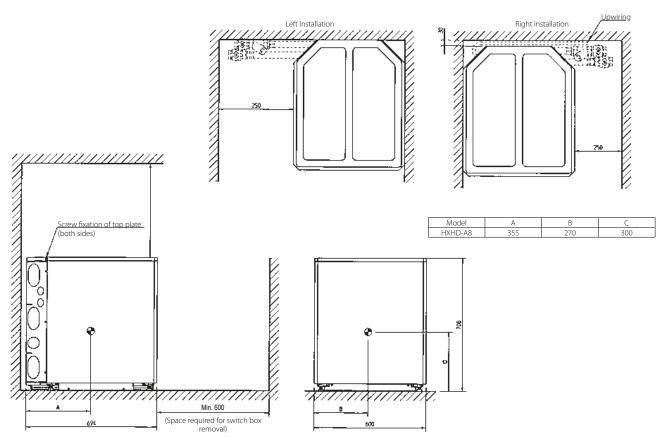


HXHD125A8



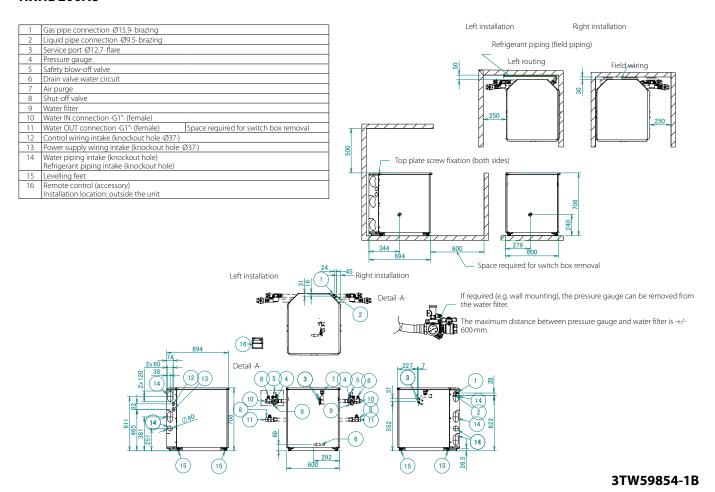
3TW59914-1B(1)

HXHD125A8



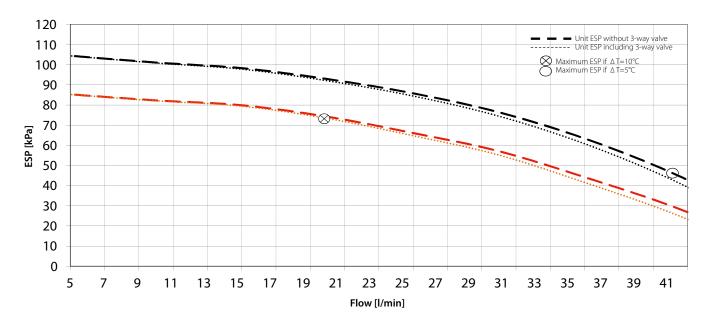


HXHD200A8





HXHD125A8



NOTES

- The ESP curves are the maximum ESP curves for different (T types (pump rpm=4200 for (T=5°C; pump rpm=3800 for (T=10°C).
- The pump of the indoor unit is inverter-controlled and functions to have a fixed (T between the return water temperature and the leaving water temperature.

In case of installing a domestic hot water tank, there is an additional pressure drop over the 3-way valve (delivered as an accessory with the tank).

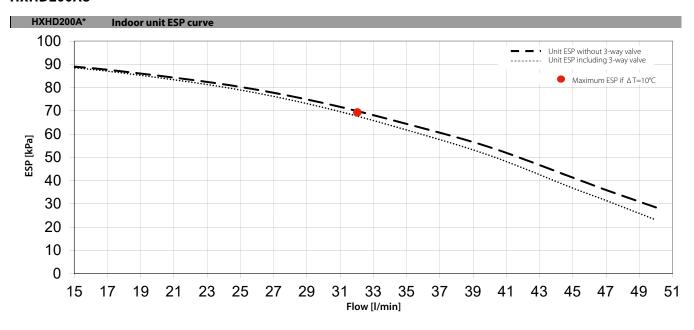
ESP: External Static Pressure Flow: water flow through the unit

WARNING

- Selecting a flow outside the operating area can damage the unit or cause the unit to malfunction. See also the minimum and maximum allowed water flow range in the technical specications.
- 2. Water quality must be according to EU directive 98/83 EC.

3D097621

HXHD200A8



NOTES

- The ESP curves are the maximum ESP curves, with and without domestic hot water tank installed on top of the indoor unit (pump rpm: 4000). The pump of the indoor unit is inverter-controlled and functions to have a fixed ΔT between the return water temperature and the leaving water
- 2. In case of installing a domestic hot water tank, there is an additional pressure drop over the 3-way valve (delivered as an accessory with the tank).

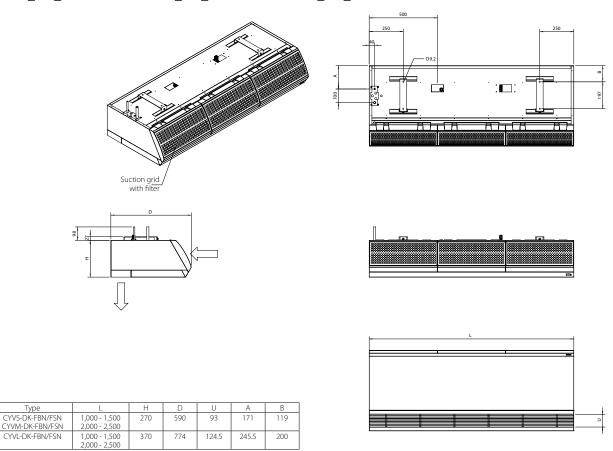
ESP: External Static Pressure Flow: water flow through the unit

- Selecting a flow outside the operating area can damage the unit or cause the unit to malfunction. See also the minimum and maximum allowed water flow range in the technical specications. Water quality must be according to EU directive 98/83 EC.



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CYVS_DK_FBN/FSN / CYVM_DK_FBN/FSN / CYVL_DK_FBN/FSN

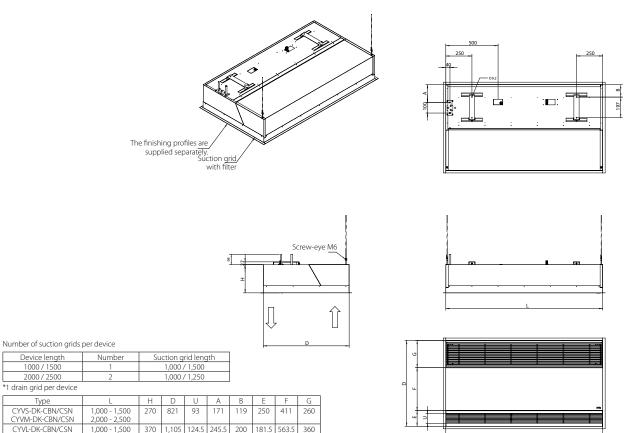


NOTES

1. The 2,500mm large devices have 3 suspension brackets, where the third bracket is mounted at half the length of the device.

CU0954X-000

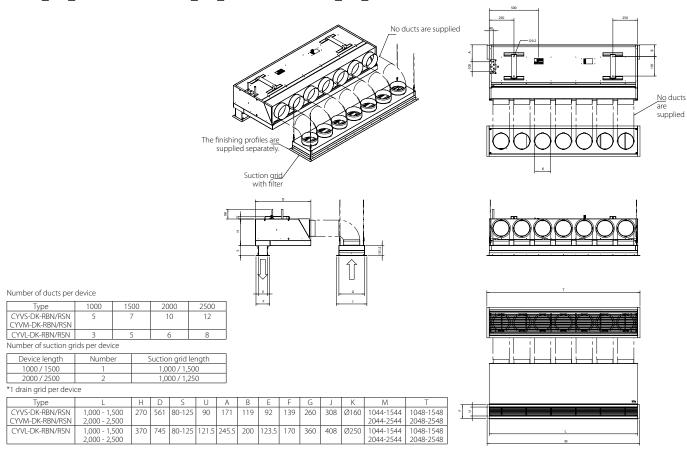
CYVS_DK_CBN/CSN / CYVM_DK_CBN/CSN / CYVL_DK_CBN/CSN



- 1. The 2,500mm large devices have 3 suspension brackets, where the third bracket is mounted at half the length of the device. 2. The mounting holes for finishing profiles in a lowered ceiling (L+8) x (D+8) mm



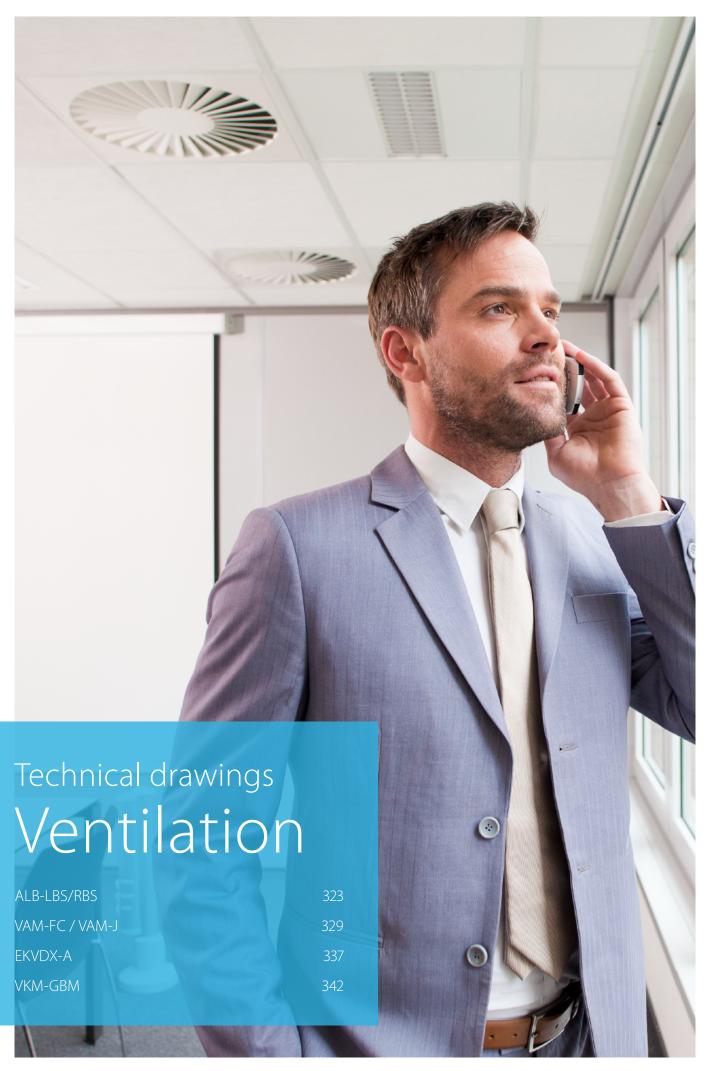
CYVS_DK_RBN/RSN / CYVM_DK_RBN/RSN / CYVL_DK_RBN/RSN



NOTES

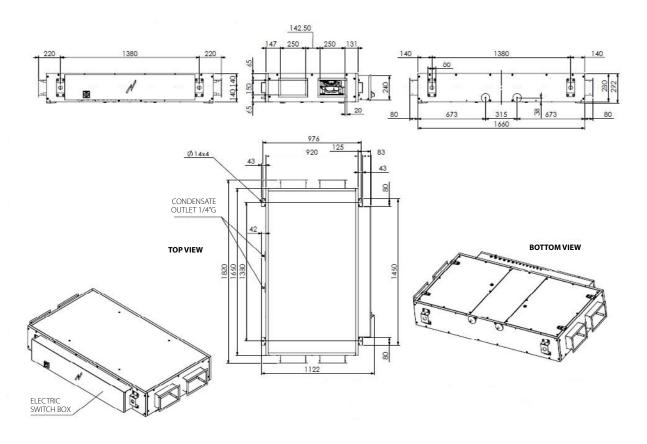
1. The 2,500mm large devices have 3 suspension brackets, where the third bracket is mounted at half the length of the device. 2. Holes (for finishing profiles) - drain (L+8) \times (E+8) mm - suction (L+8) \times (G+8) mm.

CU0956X-000

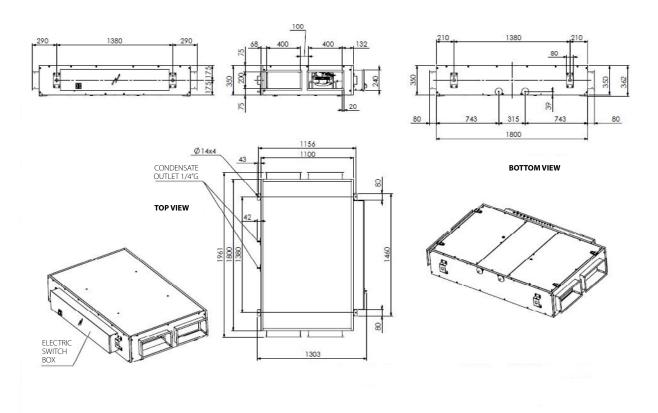




ALB02RBS/LBS

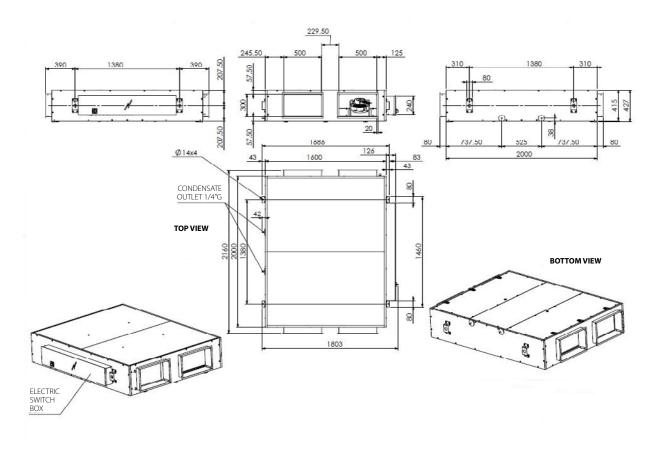


ALB03RBS/LBS

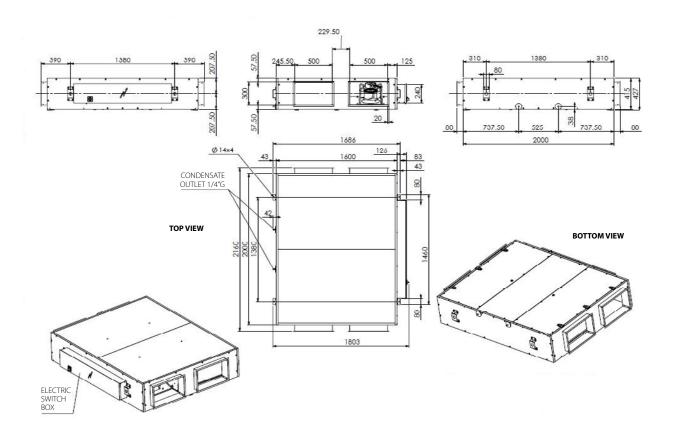




ALB04RBS/LBS

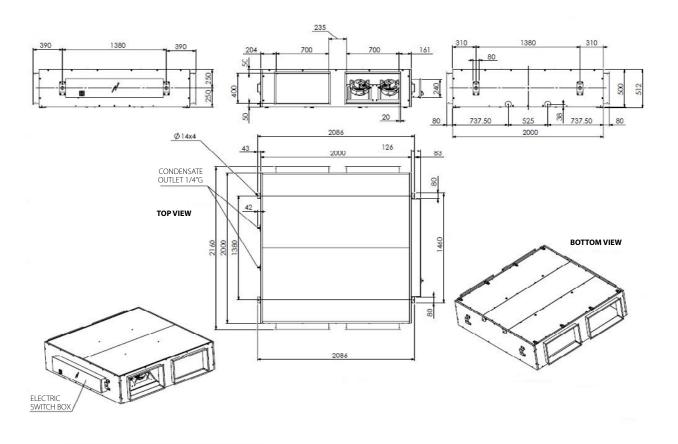


ALB05RBS/LBS

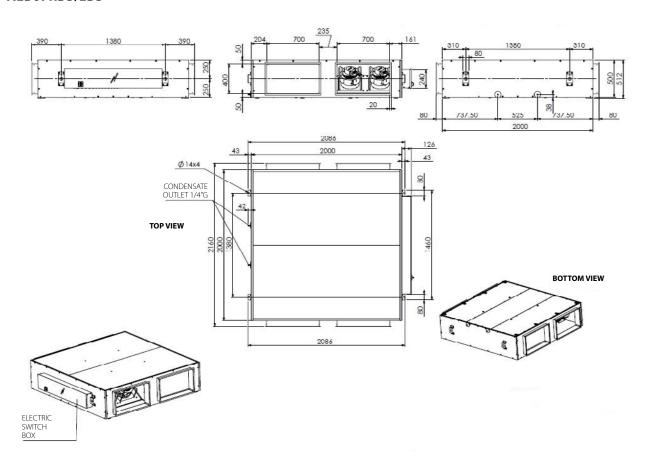




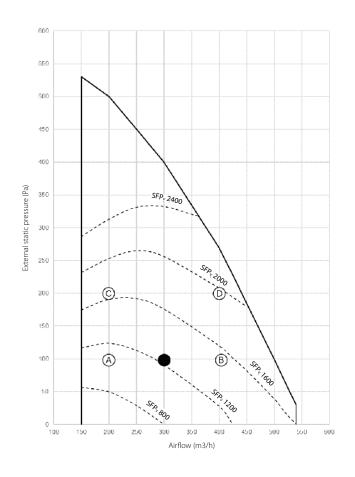
ALB06RBS/LBS



ALB07RBS/LBS



ALB02RBS/LBS



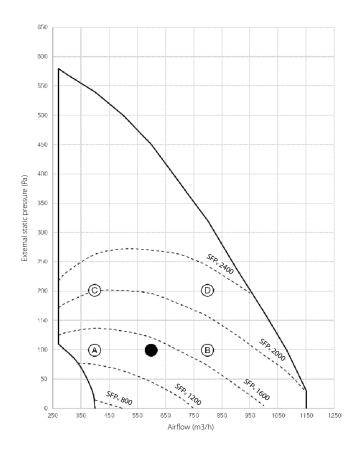
The diagram shows the available external pressure for the duct system given an airflow.

SFPv = Specific Fan Power (W/m3/s)

The SFPv curves are referring to the complete unit. Moreover, it includes power to both supply and extract fan divided by either the supply or extract volume whichever is the greater.

Nominal working point

ALB03RBS/LBS



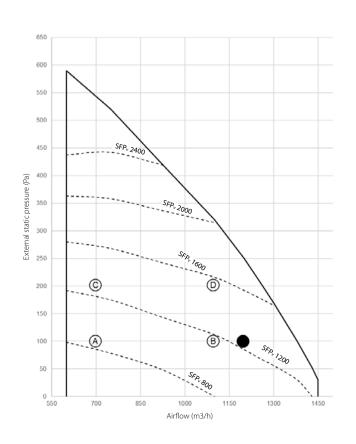
The diagram shows the available external pressure for the duct system given an airflow.

SFPv = Specific Fan Power (W/m3/s)

The SFPv curves are referring to the complete unit. Moreover, it includes power to both supply and extract fan divided by either the supply or extract volume whichever is the greater.

Nominal working point

ALB04RBS/LBS



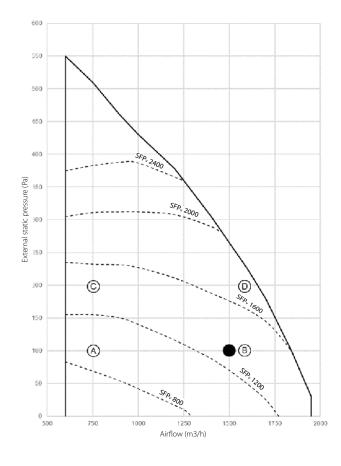
The diagram shows the available external pressure for the duct system given an airflow.

SFPv = Specific Fan Power (W/m3/s)

The SFPv curves are referring to the complete unit. Moreover, it includes power to both supply and extract fan divided by either the supply or extract volume whichever is the greater.

Nominal working point

ALB05RBS/LBS



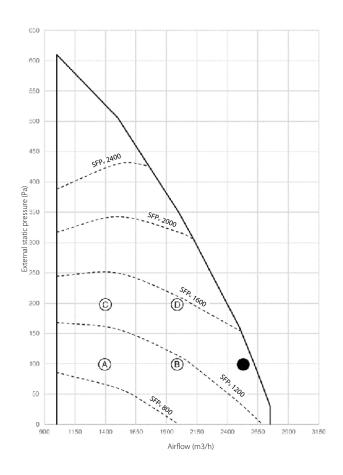
The diagram shows the available external pressure for the duct system given an airflow.

SFPv = Specific Fan Power (W/m3/s)

The SFPv curves are referring to the complete unit. Moreover, it includes power to both supply and extract fan divided by either the supply or extract volume whichever is the greater.

Nominal working point

ALB06RBS/LBS



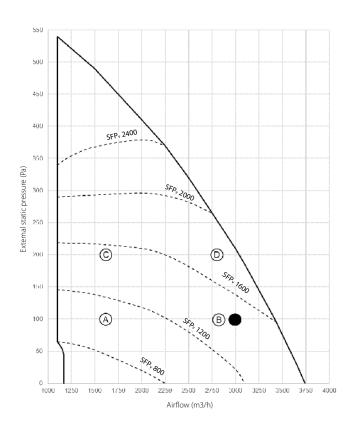
The diagram shows the available external pressure for the duct system given an airflow.

SFPv = Specific Fan Power (W/m3/s)

The SFPv curves are referring to the complete unit. Moreover, it includes power to both supply and extract fan divided by either the supply or extract volume whichever is the greater.

Nominal working point

ALB07RBS/LBS



The diagram shows the available external pressure for the duct system given an airflow.

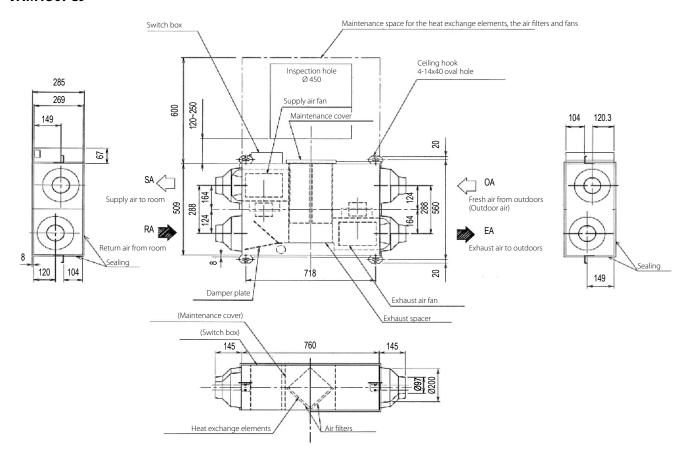
SFPv = Specific Fan Power (W/m3/s)

The SFPv curves are referring to the complete unit. Moreover, it includes power to both supply and extract fan divided by either the supply or extract volume whichever is the greater.

Nominal working point



VAM150FC9

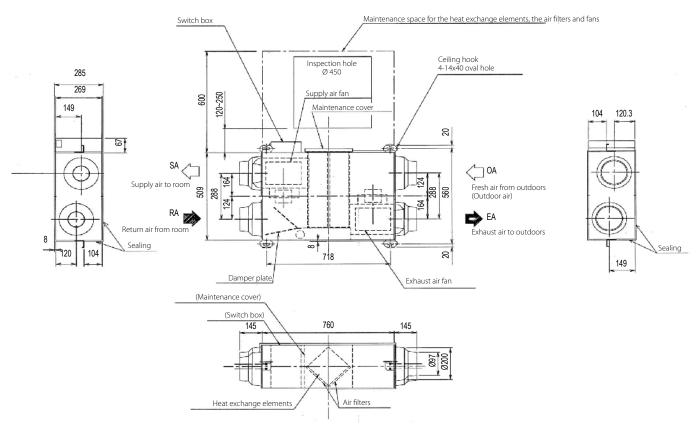


NOTES

1. Be sure to provide the inspection hole (450x450 mm) to inspect the air filters, the exchange elements and fans.

3TW27874-1

VAM250FC9

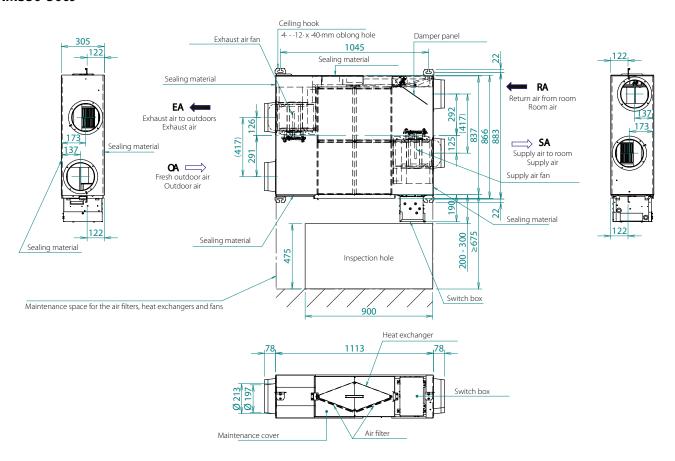


NOTES

1. Be sure to provide the inspection hole (450x450 mm) to inspect the air filters, the exchange elements and fans.

CLICK HERE TO VIEW ALL VAM-J TECHNICAL DRAWINGS ON MY.DAIKIN.EU

VAM350-500J

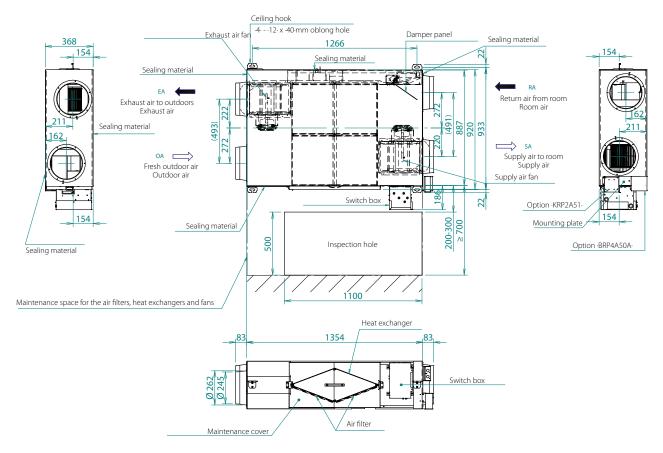


NOTES

1. To allow for the inspection of the air filters, heat exchangers, and fans, be sure to provide the inspection hole.

3D112815C

VAM650J

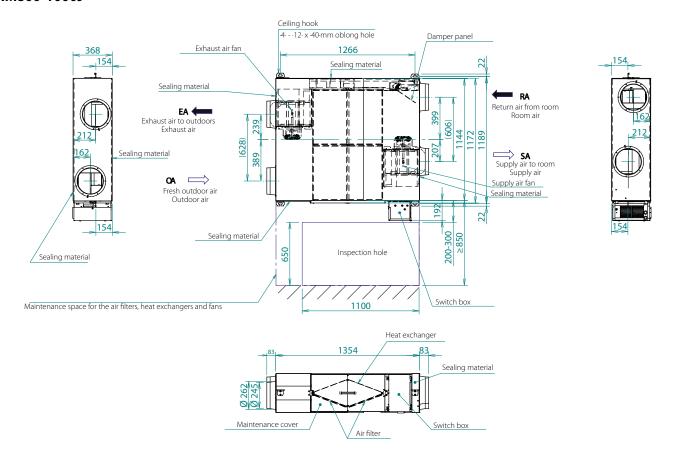


NOTES

1. To allow for the inspection of the air filters, heat exchangers, and fans, be sure to provide the inspection hole.



VAM800-1000J

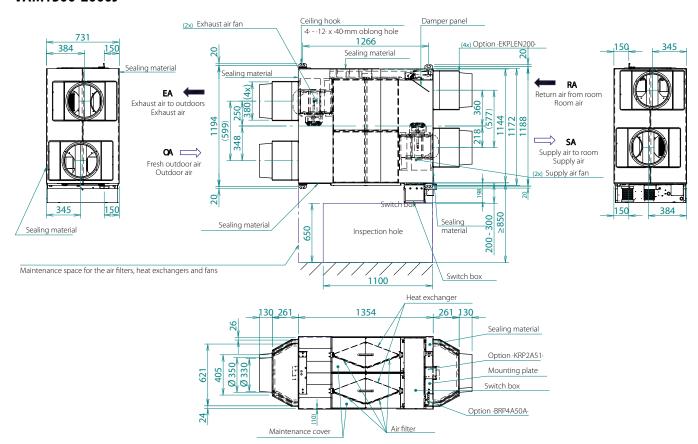


NOTES

1. To perform maintenance on the air filter, it is required to provide a service access panel.

3D112817D

VAM1500-2000J

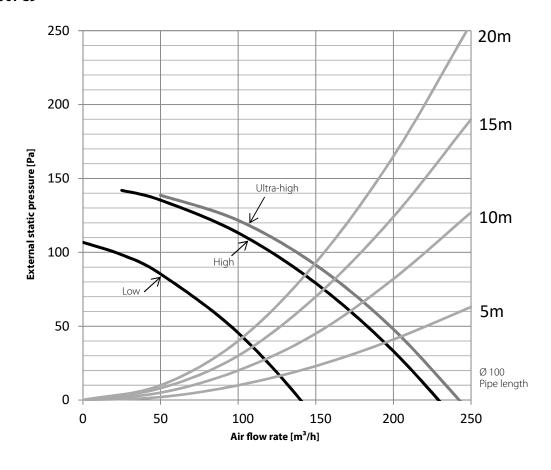


NOTES

1. To allow for the inspection of the air filters, heat exchangers, and fans, be sure to provide the inspection hole.

CLICK HERE TO VIEW ALL VAM-FC9 TECHNICAL DRAWINGS ON MY.DAIKIN.EU

VAM150FC9

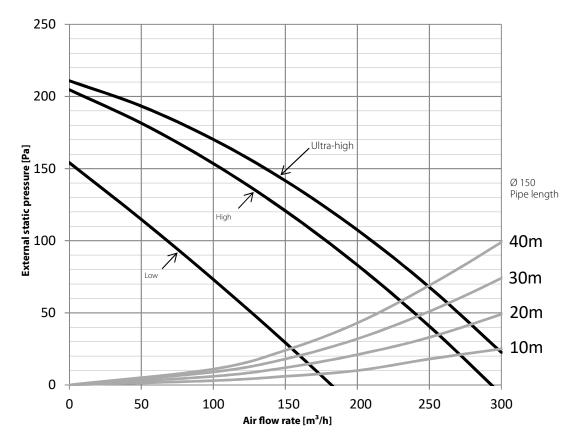


NOTES

1. The fan speeds are valid for ·230·V, ·50·Hz power supply.

4D100379A

VAM250FC

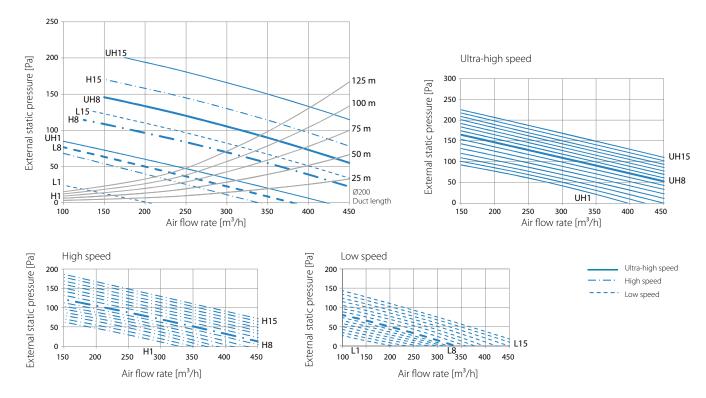


NOTES

1. The fan speeds are valid for $\cdot 230 \cdot V$, $\cdot 50 \cdot Hz$ power supply.



VAM350J



NOTES

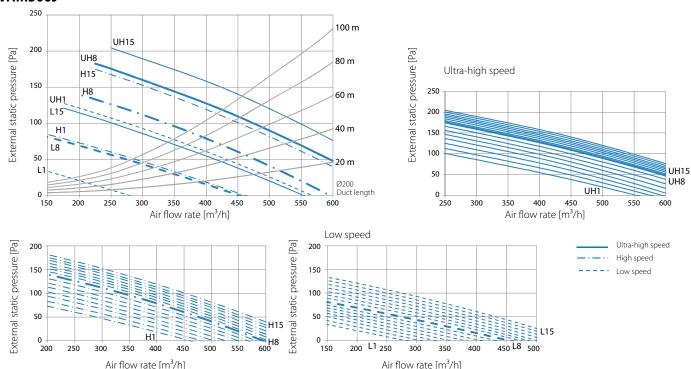
- 1. The fan curves are determined with ·1/3· of the ESP on the outdoor side (EA & OA·), and ·2/3· of the ESP on the indoor side (RA & SA·). EA = Exhaust air OA = Outdoor air
- A = Room air
 SA = Supply air
 2. Measured according to JIS B 8628 2003-

LEGEND

L1 = Low speed lower limitL8 = Low speed factory setting L15 = Low speed upper limit H1 = High speed lower limit H8 = High speed factory setting H15 = High speed upper limit UH1 = Ultra-high speed lower limit UH8 = Ultra-high speed factory setting UH15 = Ultra-high speed upper limit

3D113493B

VAM500J



NOTES

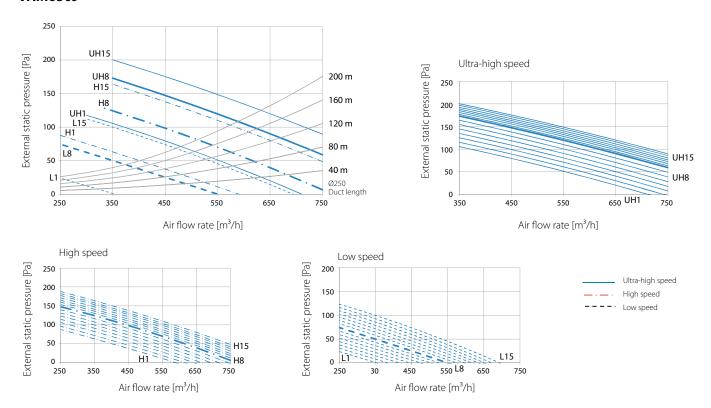
- 1. The fan curves are determined with ·1/3· of the ESP on the outdoor side (EA & OA), and ·2/3· of the ESP on the indoor side (-RA & SA-).
 - EA = Exhaust air
 - OA = Outdoor air
 - RA = Room air
- SA = Supply air
 2. Measured according to JIS B 8628 2003

LEGEND

- L1 = Low speed lower limit L8 = Low speed factory setting L15 = Low speed upper limit H1 = High speed lower limit H8 = High speed factory setting
- H15 = High speed upper limit UH1 = Ultra-high speed lower limit UH8 = Ultra-high speed factory setting UH15 = Ultra-high speed upper limit

CLICK HERE TO VIEW ALL VAM-J TECHNICAL DRAWINGS

VAM650J



NOTES

- 1. The fan curves are determined with 1/3 of the ESP on the outdoor side (EA & OA), and 2/3 of the ESP on the indoor side (RA & SA).
 - EA = Exhaust air OA = Outdoor air
- A = Outdoor air

 RA = Room air

 SA = Supply air

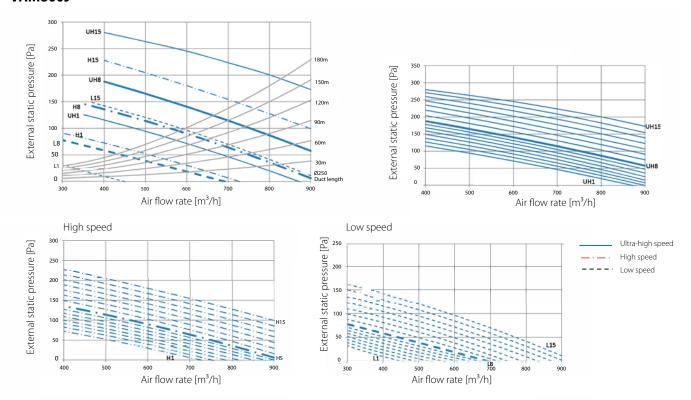
 2. Measured according to -JIS B 8628 2003-

LEGEND

L1 = Low speed lower limit L8 = Low speed factory setting L15 = Low speed upper limit H1 = High speed lower limit H8 = High speed factory setting H15 = High speed upper limit UH1 = Ultra-high speed lower limit UH8 = Ultra-high speed factory setting UH15 = Ultra-high speed upper limit

3D113495B

VAM800J



- 1. The fan curves are determined with 1/3 of the ESP on the outdoor side (EA & OA), and 2/3 of the ESP on the indoor side (RA & SA). EA = Exhaust air OA = Outdoor air RA = Room air

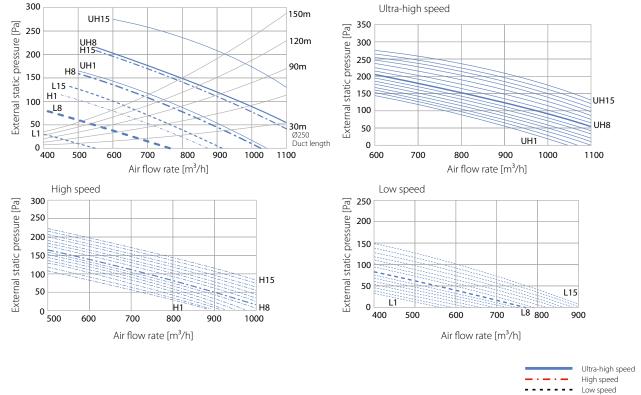
- SA = Supply air
 2. Measured according to JIS B 8628 2003-

LEGEND

- L1 = Low speed lower limit L8 = Low speed factory setting L15 = Low speed upper limit H1 = High speed lower limit H8 = High speed factory setting
- H15 = High speed upper limit UH1 = Ultra-high speed lower limit UH8 = Ultra-high speed factory setting UH15 = Ultra-high speed upper limit



VAM1000J



NOTES

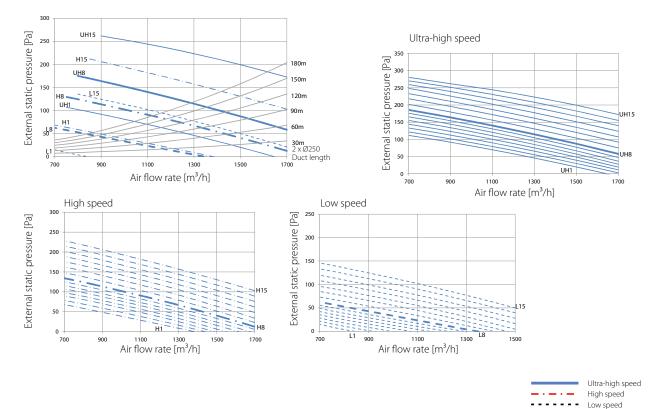
- 1. The fan curves are determined with 1/3 of the ESP on the outdoor side (EA & OA), and 2/3 of the ESP on the indoor side (RA & SA). EA = Exhaust air
 - OA = Outdoor air
- RA = Room air SA = Supply air 2. Measured according to JIS B 8628 2003-

LEGEND

L1 = Low speed lower limitL8 = Low speed factory setting L15 = Low speed upper limit H1 = High speed lower limit H8 = High speed factory setting H15 = High speed upper limit UH1 = Ultra-high speed lower limit UH8 = Ultra-high speed factory setting UH15 = Ultra-high speed upper limit

3D112832A

VAM1500J



- I. The fan curves are determined with 1/3 of the ESP on the outdoor side (EA & OA), and 2/3 of the ESP on the indoor side (RA & SA).

 EA = Exhaust air
 OA = Outdoor air
- RA = Room air
- SA = Supply air
 2. Measured according to JIS B 8628 2003-

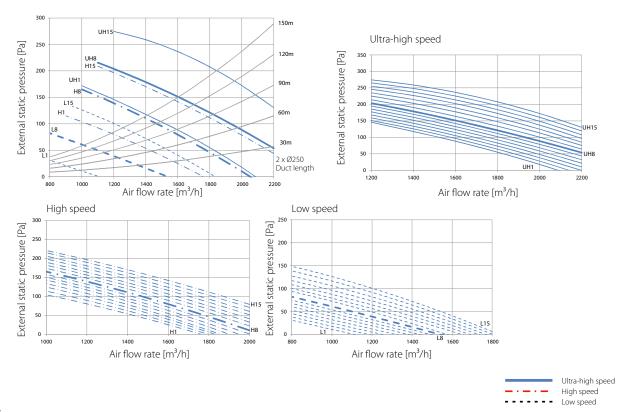
LEGEND

L1 = Low speed lower limit L8 = Low speed factory setting L15 = Low speed upper limit H1 = High speed lower limit H8 = High speed factory setting H15 = High speed upper limit UH1 = Ultra-high speed lower limit UH8 = Ultra-high speed factory setting UH15 = Ultra-high speed upper limit

3D112838A

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VAM2000J



NOTES

I. The fan curves are determined with 1/3 of the ESP on the outdoor side (EA & OA), and 2/3 of the ESP on the indoor side (RA & SA).

EA = Exhaust air
OA = Outdoor air
RA = Room air
SA = Supply air
2. Measured according to JIS B 8628 - 2003-

LEGEND

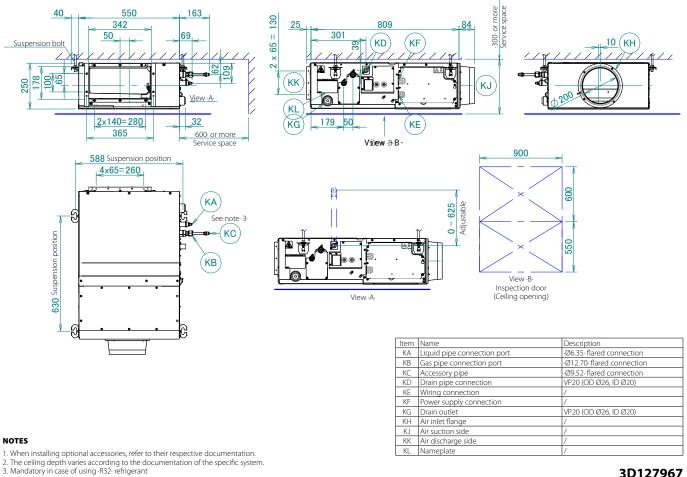
L1 = Low speed lower limit L8 = Low speed factory setting L15 = Low speed upper limit H1 = High speed lower limit H8 = High speed factory setting

H15 = High speed upper limit UH1 = Ultra-high speed lower limit UH8 = Ultra-high speed factory setting UH15 = Ultra-high speed upper limit

3D112839A

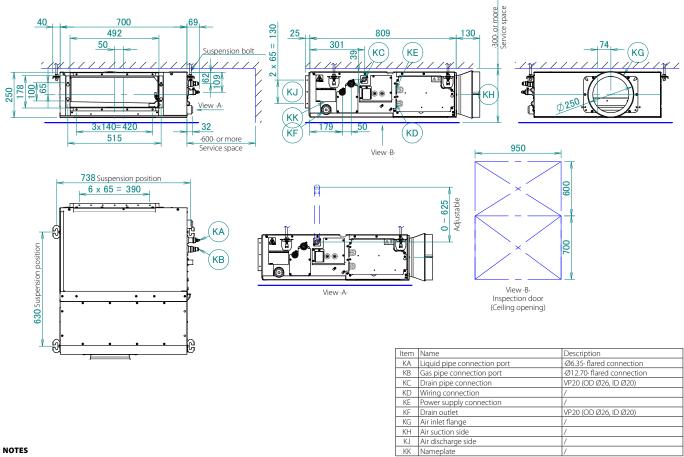


EKVDX32A



3D127967

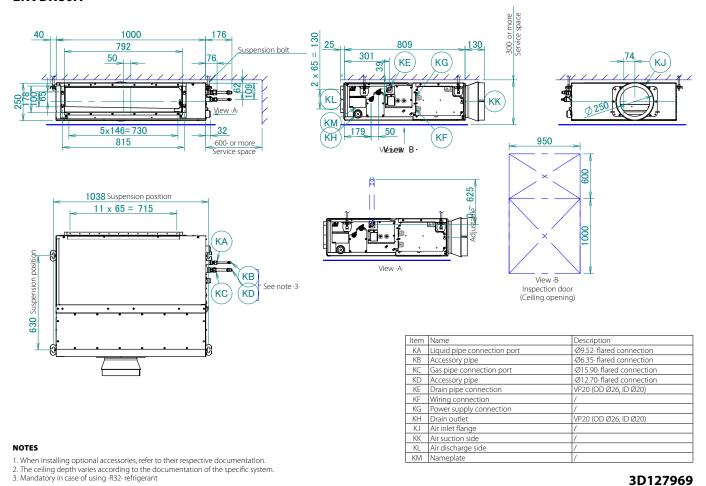




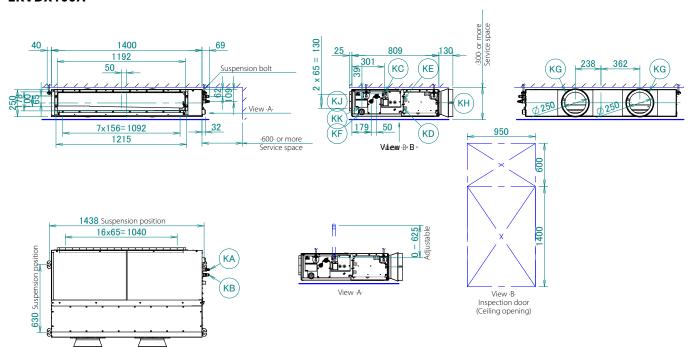
- 1. When installing optional accessories, refer to their respective documentation.
 2. The ceiling depth varies according to the documentation of the specific system.

CLICK HERE TO VIEW ALL EKVDX-A TECHNICAL DRAWINGS ON MY.DAIKIN.EU

EKVDX80A



EKVDX100A

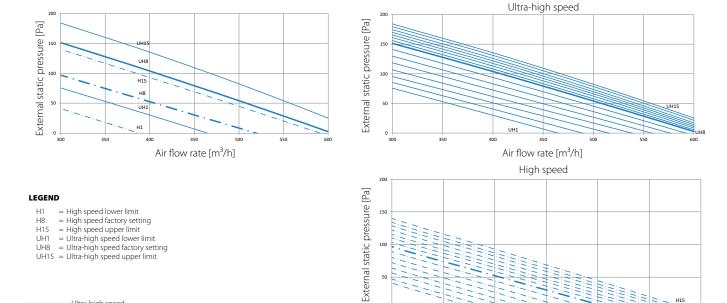


NOTES

1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.



EKVDX32A



NOTES

1. The fan curves are determined with ·1/3· of the ESP on the outdoor side (·EA & OA·), and ·2/3· of the ESP on the indoor side (·RA & SA·). EA = Exhaust air

Ultra-high speed High speed

OA = Outdoor air

RA = Room air SA = Supply air

2. The designed airflow of the system at H and UH tap should be kept as shown in the graphs. If the VAM airflow is out of this range, the compressor of the outdoor unit

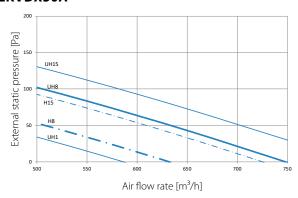
and the designed allowed it the system at raid of riap should be kept as shown in the graphs, in the whole allowed its starting, the compressor of the outdoor of may stop for selfprotection purposes.

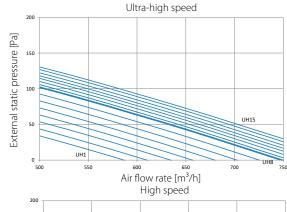
3. Unit operation with R32 refrigerant is possible in the shaded area of the graphs, but the R32 safety alarm will be triggered if the system airflow drops within this area during operation. No selection in this area is allowed.

4. Measured according to JIS B 8628 - 2003.

3D138264







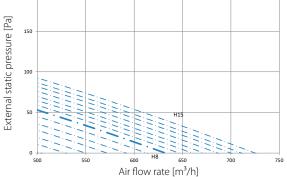
Air flow rate [m³/h]

LEGEND

High speed lower limit
 High speed factory setting
 High speed upper limit
 Ultra-high speed lower limit
 Ultra-high speed factory setting

UH15 = Ultra-high speed upper limit

Ultra-high speed High speed



NOTES

1. The fan curves are determined with ·1/3· of the ESP on the outdoor side (EA & OA), and ·2/3· of the ESP on the indoor side (RA & SA).

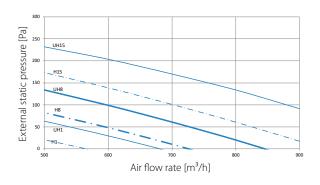
EA = Exhaust air
OA = Outdoor air
RA = Room air
SA = Supply air
2. The designed airflow of the system at H and UH tap should be kept as shown in the graphs. If the ·VAM· airflow is out of this range, the compressor of the outdoor unit

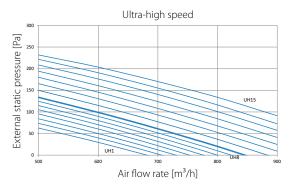
may stop for selfprotection purposes.

3. Measured according to JIS B 8628 - 2003-

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EKVDX50A

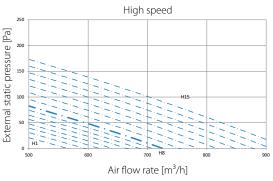




LEGEND

High speed lower limitHigh speed factory setting H15 = High speed upper limit UH1 UH8 = Ultra-high speed lower limit = Ultra-high speed factory setting UH15 = Ultra-high speed upper limit

Ultra-high speed High speed



1. The fan curves are determined with $\cdot 1/3 \cdot$ of the ESP on the outdoor side (EA & OA·), and $\cdot 2/3 \cdot$ of the ESP on the indoor side (RA & SA).

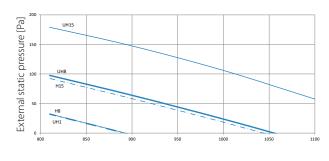
EA = Exhaust air OA = Outdoor air RA = Room air SA = Supply air

2. The designed airflow of the system at H and UH tap should be kept as shown in the graphs. If the -VAM- airflow is out of this range, the compressor of the outdoor unit may stop for self-protection purposes.

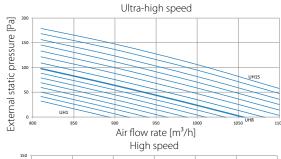
3. Measured according to -JIS B 8628 - 2003-

3D138266

EKVDX80A



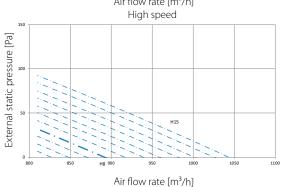




LEGEND

H1 = High speed lower limit
H8 = High speed factory setting
H15 = High speed upper limit
H16 = Ultra-high speed lower limit
H17 = Ultra-high speed factory setting
H18 = Ultra-high speed upper limit

Ultra-high speed High speed



NOTES

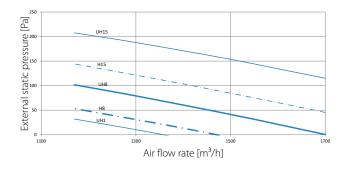
1. The fan curves are determined with ·1/3· of the ESP on the outdoor side (EA & OA), and ·2/3· of the ESP on the indoor side (RA & SA).

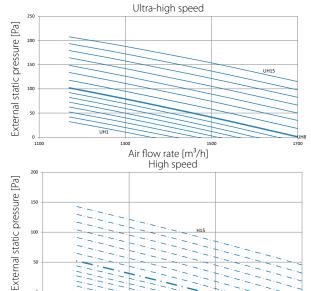
EA = Exhaust air
OA = Outdoor air
RA = Room air
SA = Supply air
2. The designed airflow of the system at H and UH tap should be kept as shown in the graphs. If the ·VAM· airflow is out of this range, the compressor of the outdoor unit may stop for selfprotection purposes.

3. Measured according to JIS B 8628 - 2003-



EKVDX100A





Air flow rate [m³/h]

LEGEND

High speed lower limitHigh speed factory setting Н1 H15 = High speed upper limit Ultra-high speed lower limit
 Ultra-high speed factory setting UH1 UH15 = Ultra-high speed upper limit

Ultra-high speed High speed

1. The fan curves are determined with $\cdot 1/3 \cdot$ of the ESP on the outdoor side (EA & OA·), and $\cdot 2/3 \cdot$ of the ESP on the indoor side (RA & SA).

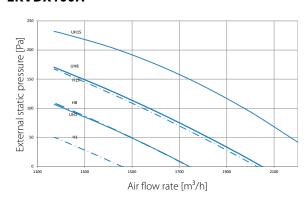
EA = Exhaust air OA = Outdoor air RA = Room air SA = Supply air

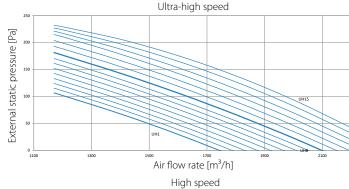
2. The designed airflow of the system at H and UH tap should be kept as shown in the graphs. If the -VAM- airflow is out of this range, the compressor of the outdoor unit may stop for selfprotection purposes.

3. Measured according to -JIS B 8628 - 2003-

3D138268

EKVDX100A

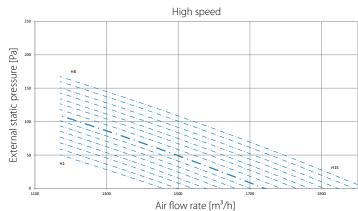




LEGEND

H1 = High speed lower limit
H8 = High speed factory setting
H15 = High speed upper limit
H16 = Ultra-high speed lower limit
H17 = Ultra-high speed factory setting
H18 = Ultra-high speed upper limit

Ultra-high speed High speed



NOTES

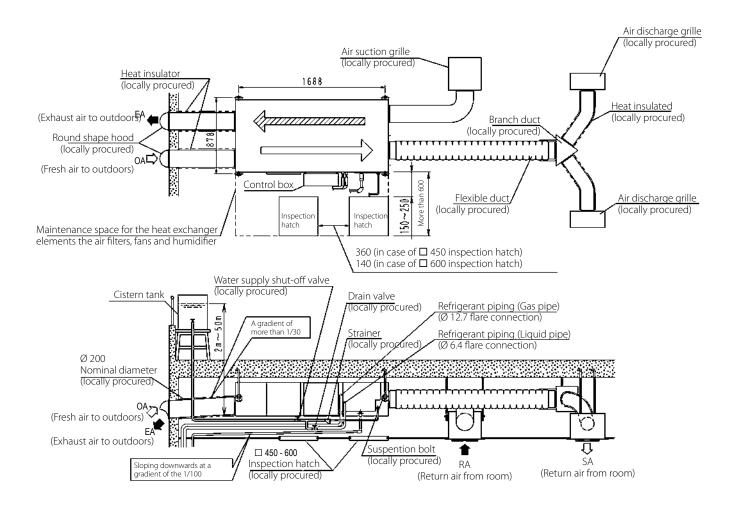
1. The fan curves are determined with ·1/3· of the ESP on the outdoor side (EA & OA), and ·2/3· of the ESP on the indoor side (RA & SA).

EA = Exhaust air
OA = Outdoor air
RA = Room air
SA = Supply air
2. The designed airflow of the system at H and UH tap should be kept as shown in the graphs. If the ·VAM· airflow is out of this range, the compressor of the outdoor unit may stop for selfprotection purposes.

3. Measured according to JIS B 8628 - 2003-



VKM50GBM



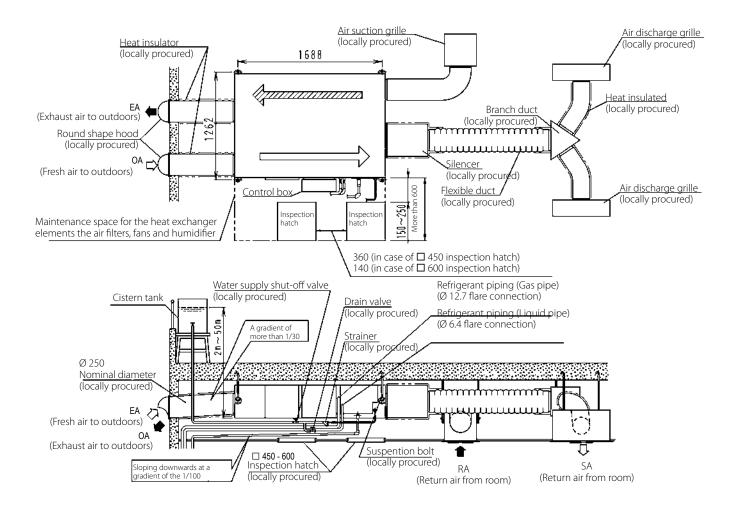
NOTES

- 1. Leave space for servicing the unit and include inspection hatch. (Always open a hole on the side of the control box so that the air filters heat exchange elements, and fans can easily be inspected and serviced.)
- 2. Install the two outdoor ducts with down slope (slope of 1/30 or more) to prevent entry of rain water, also, provide insulation for three ducts (outdoor ducts and indoor supply air duct) to prevent dew condensation. (Material: glass wool of 25mm thick)
- 3. Do not turn the unit upside down.
- 4. Use city water or clean water.
 - Include water supply piping with strainer, a water supply shut-off valve, and a drain valve (both locally procured) somewhere along the water supply piping that can be reached from the inspection.
- 5. It is impossible to connect the water supply piping directly to public piping. Use a cistern tank (of the approved type), if you need to get your water supply from public piping.
- 6. Make sure the supply water 0.02MPa to 0.49MPa (0.2 kg/cm² to 5 kg/cm²)
- 7. Make sure the supply water is between 5°C and 40°C in temperature.
- 8. Insulate the water supply piping to prevent condensation from forming.
- 9. Make sure to install drain piping, and insulate drain piping to prevent dew condensation.
- 10. Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent air from forming.
- 11. Install in a location where the air around the unit or taken into the umidifier will not drop below 0°C.
- 12. Do not use a bent cap or a round hood as the outdoor hood if they might get rained on directly (we recommend using a deep hood) (optional accessory).
- 13. In areas where freezing may occur, always take steps to prevent the pipes from freezing.
- 14. Do not place something which shouldn't get wet at the below of this unit. The dew would fall at following case, where humidity is 80% more, or the exit of drain socket is choked up, or the air filter is very dirty.
- 15. Feed clean water. If the supply water is hard water, use a water softener because of short life.

 Life of humidifying element is about 3 years (4,000 hours), under the supply water conditions of hardness: 150 mg/L. (Life of humidifying element is about 1 years (1500 hours), under the supply water conditions of hardness: 400 mg/L.)



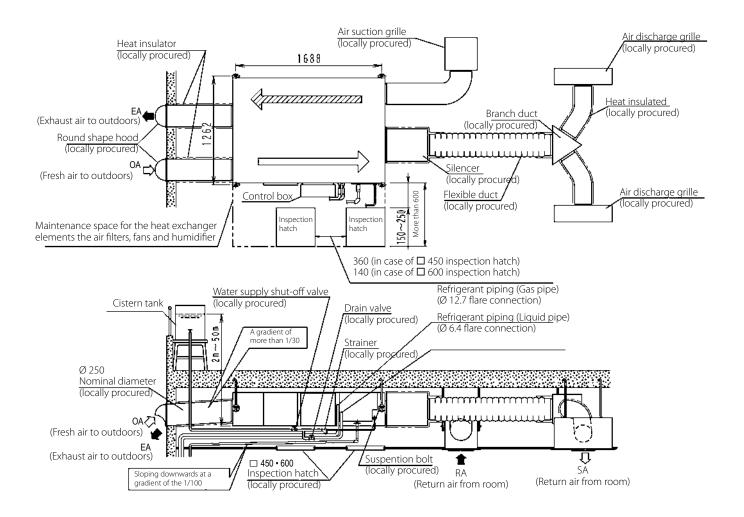
VKM80GBM



NOTES

- 1. Leave space for servicing the unit and include inspection hatch. (Always open a hole on the side of the control box so that the air filters heat exchange elements, and fans can easily be inspected and serviced.)
- 2. Install the two outdoor ducts with down slope (slope of 1/30 or more) to prevent entry of rain water, also, provide insulation for three ducts (outdoor ducts and indoor supply air duct) to prevent dew condensation. (Material: glass wool of 25mm thick)
- 3. Do not turn the unit upside down.
- 4. Use city water or clean water.
 - Include water supply piping with strainer, a water supply shut-off valve, and a drain valve (both locally procured) somewhere along the water supply piping that can be reached from the inspection.
- 5. It is impossible to connect the water supply piping directly to public piping. Use a cistern tank (of the approved type), if you need to get your water supply from public piping.
- 6. Make sure the supply water 0.02MPa to 0.49MPa (0.2 kg/cm² to 5 kg/cm²)
- 7. Make sure the supply water is between 5°C and 40°C in temperature.
- 8. Insulate the water supply piping to prevent condensation from forming.
- 9. Make sure to install drain piping, and insulate drain piping to prevent dew condensation.
- 10. Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent air from forming.
- 11. Install in a location where the air around the unit or taken into the umidifier will not drop below 0°C.
- 12. Do not use a bent cap or a round hood as the outdoor hood if they might get rained on directly (we recommend using a deep hood) (optional accessory).
- 13. In areas where freezing may occur, always take steps to prevent the pipes from freezing.
- 14. Do not place something which shouldn't get wet at the below of this unit. The dew would fall at following case, where humidity is 80% more, or the exit of drain socket is choked up, or the air filter is very dirty.
- 15. Feed clean water. If the supply water is hard water, use a water softener because of short life.
 Life of humidifying element is about 3 years (4,000 hours), under the supply water conditions of hardness: 150 mg/L. (Life of humidifying element is about 1 years (1500 hours), under the supply water conditions of hardness: 400 mg/L.)

VKM100GBM



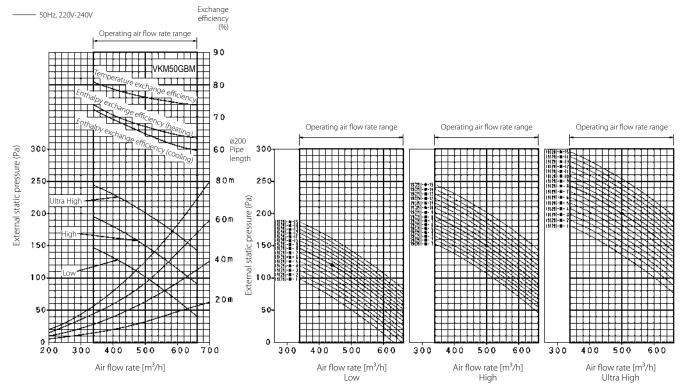
NOTES

- 1. Leave space for servicing the unit and include inspection hatch. (Always open a hole on the side of the control box so that the air filters, heat exchange elements, fans and humidifier elements can easily be inspected and serviced.)
- 2. Install the two outdoor ducts with down slope (slope of 1/30 or more) to prevent entry of rain water. Also, provide insulation for three ducts (outdoor ducts and indoor supply air duct) to prevent dew condensation. (Material: glass wool of 25mm thick)
- 3. Do not turn the unit upside down.
- 4. Use city water or clean water.
 - Include water supply piping with strainer, a water supply shut-off valve, and a drain valve (both locally procured) somewhere along the water supply piping that can be reached from the inspection.
- 5. It is impossible to connect the water supply piping directly to public piping. Use a cistern tank (of the approved type), if you need to get your water supply from public piping.
- 6. Make sure the supply water 0.02MPa to 0.49MPa (0.2 kg/cm² to 5 kg/cm²)
- 7. Make sure the supply water is between 5°C and 40°C in temperature.
- 8. Insulate the water supply piping to prevent condensation from forming.
- 9. Make sure to install drain piping, and insulate drain piping to prevent dew condensation.
- 10. Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent air from forming.
- 11. Install in a location where the air around the unit or taken into the umidifier will not drop below 0°C
- 12. Do not use a bent cap or a round hood as the outdoor hood if they might get rained on directly (we recommend using a deep hood) (optional accessory).
- 13. In areas where freezing may occur, always take steps to prevent the pipes from freezing.
- 14. Do not place something which shouldn't get wet at the below of this unit. The dew would fall at following case, where humidity is 80% more, or the exit of drain socket is choked up, or the air filter is very dirty.
- 15. Feed clean water. If the supply water is hard water, use a water softener because of short life.

 Life of humidifying element is about 3 years (4,000 hours), under the supply water conditions of hardness: 150 mg/L. (Life of humidifying element is about 1 years (1500 hours), under the supply water conditions of hardness: 400 mg/L.)



VKM50GBM



[READING OF PERFORMANCE CHARACTERISTICS]

1. For example: 19(29)-*****-07

Mode no. : 19(29)

First code: * (Supply [2] Exhaust [3])

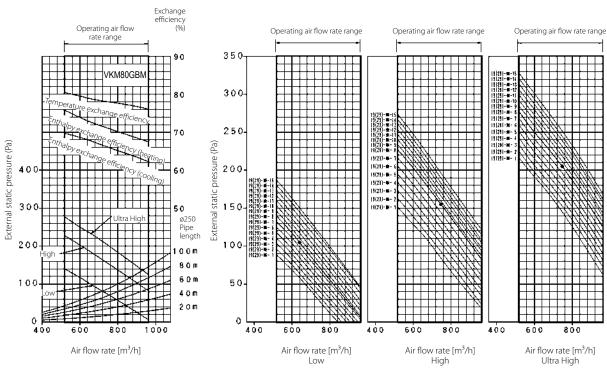
Second code no.: 07

Rated point: • The characteristic of each tap becomes a setup of the characteristic of the same code number.

3D082901

VKM80GBM

----- 50Hz, 220V-240V



[READING OF PERFORMANCE CHARACTERISTICS]

1. For example: 19(29)-*****-07

Mode no.: 19(29)

First code: * (Supply [2] Exhaust [3])
Second code no.: 07

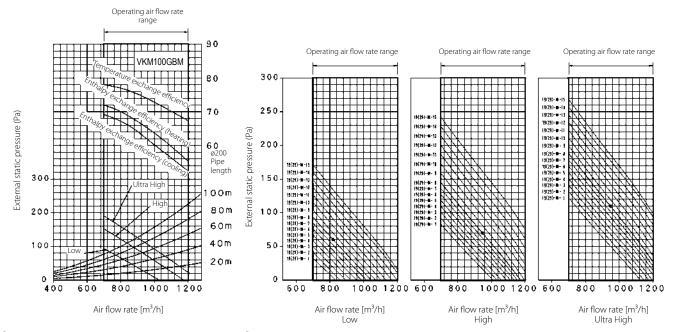
2. Rated point: ●

3. The characteristic of each tap becomes a setup of the characteristic of the same code number.

VKM100GBM

----- 50Hz, 220V-240V

Exchange efficiency



[READING OF PERFORMANCE CHARACTERISTICS]

1. For example: 19(29)-**%**-07 Mode no.: 19(29)

First code: * (Supply [2] Exhaust [3])

Second code no.: 07

2. Rated point: •

3. The characteristic of each tap becomes a setup of the characteristic of the same code number.

3D082903

Power supply

T1 = 3~, 220V, 50Hz V1 = 1~, 220-240V, 50Hz

VE = 1~, 220-240V/220V, 50Hz/60Hz*

 $V3 = 1\sim, 230V, 50Hz$

VM = 1~, 220~240V/220~230V, 50Hz/60Hz

W1 = $3N\sim$, 400V, 50Hz Y1 = $3\sim$, 400V, 50Hz

Conversion table refrigerant piping

inch	mm	
1/4"	6.4 mm	
3/8″	9.5 mm	
1/2"	12.7 mm	
⁵ / ₈ "	15.9 mm	
3/4"	19.1 mm	
7/8″	22.2 mm	
1 ¹/8″	28.5 mm	
1 ³/ ₈ ″	34.9 mm	
1 ⁵ / ₈ ″	41.3 mm	
1 ³/4″	44.5 mm	
2″	50.8 mm	
2 1/8"	54 mm	
2 5/8"	66.7 mm	

F-gas regulation

Any refrigeration system that contains fluorinated greenhouse gases is in scope of the F-gas regulations. For fully/partially pre-charged equipment: contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction, details can be found on the unit labels and in the notes underneath the specification tables in this catalogue. For non pre-charged equipment (including, but not limited to racks): its functioning relies on fluorinated greenhouse gases. The F-gas regulations do not apply to systems that contain only natural refrigerants such as propane or carbon dioxide.

Measuring conditions

Air conditioning

1) Nominal cooling capacities are based on:				
Indoor temperature	27°CDB/19°CWB			
Outdoor temperature	35°CDB			
Refrigerant piping length	7.5m - 8/5m VRV			
Level difference	0m			
2) Nominal heating capacities are based on:				
Indoor temperature	20°CDB			
Outdoor temperature	7°CDB/6°CWB			
Refrigerant piping length	7.5m - 8/5m VRV			
Level difference	0m			

Refrigeration

ZEAS	.S Chilling		Evaporating temp10°C; outdoor temp. 32°C; Suction SH10°C	
	Freezing		Evaporating temp35°C; outdoor temp. 32°C; Suction SH10°C	
Conveni-Pack	Mix Air conditioning and refrigeration operating mode		Indoor temp. 27°CDB/19°CWB; outdoor temp. 32°CDB; piping length:7.5m; level difference: 0m;	
			refrigeration side: Evaporating temp10°C; outdoor temp. 32°CDB; Suction SH: 10°C	
	Mix heating and refrigeration operating mode		Indoor temp. 20°C; outdoor temp. 7°CDB,6°CWB; advertised refrigerant load (Evaporating temp	
	(Heating recovery 100% mode)		-10°C; Suction SH: 10°C); piping length:7.5m; level difference: 0m	
Booster unit			Evaporating temp35°C; outdoor temp. 32°C; suction SH 10K; saturated temp. to discharge	
			pressure of booster unit -10°C	
CCU/SCU	Medium temperature application		Medium temperature application: Outside ambient temp. 32°C; Evaporating temp. = -10°C and	
			10K superheat;	
	Low temperature application		Low temperature application: Outside ambient temp. 32°C; Evaporating temp. = -35°C and 20°C	
			suction gas temperature	
Zanotti		High temperature	When normally running: +10°C/+30°C	
	Uni-Block, Bi-Block, Wineblock	Medium temperature	When normally running: 0°C / 30°C	
		Low temperature	When normally running: -20°C / +30°C	
	CU (one , twin, and more compressor(s))	Medium temperature	Outside ambient temp. 32°C; Evaporating temp. = -10°C and 20°C suction gas temperature	
		Low temperature	Outside ambient temp. 32°C; Evaporating temp. = -35°C and 20°C suction gas temperature	

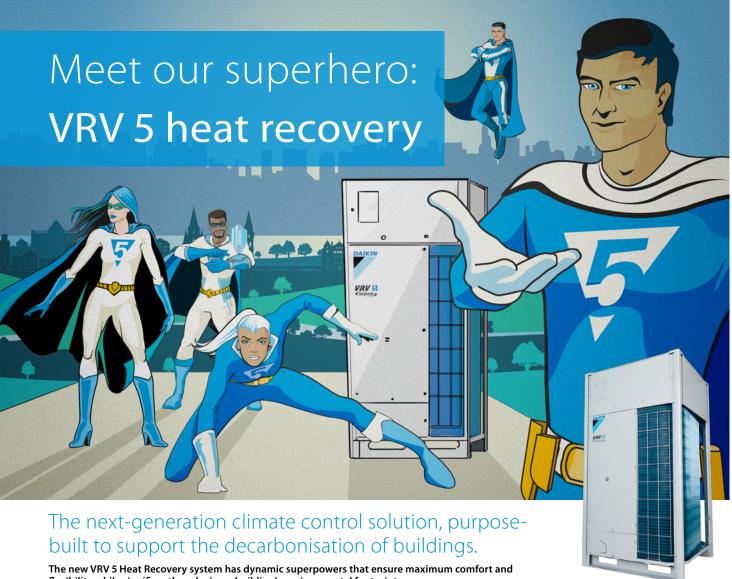
Applied systems

Air cooled	Coolin	g only	Evaporator: 12°C/7°C	Ambient: 35°CDB
	lla-st-	Heat pump	Evaporator: 12°C/7°C	Ambient: 35°C
	неат	oump	Condenser: 40°C/45°C	Ambient: 7°CDB/6°CWB
Water cooled	Coolin	a only	Evaporator: 12°C/7°C	
	Coolin	goniy	Condenser: 30°C/35°C	
	Heatin	a only	Evaporator: 12°C/7°C	
	пеаип	gonly	Condenser: 40°C/45°C	
Condenserless chiller			Evaporator: 12°C/7°C	
			Condensing temperature: 45°C / liquid temperature: 40°C	
Fan coil units	Coo	ling	Indoor temperature 27°CDB, 19°CWB; entering water temperature 7°C, water temperature rise 5K	
	Haatin n	2-pipe	Indoor temperature 20°CDB, 15°CV	VB; entering water temperature 45°C, water temperature drop 5K
	Heating	4-pipe	Indoor temperature 20°CDB, 15°CW	B; entering water temperature 65°C, water temperature drop 10K
Air Handling Units		Temperature and humidity conditions: Extract air 22°C / 50%; Fresh air -10°C / 90%		

The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value, depending on the distance and acoustic environment (for measuring conditions: please refer to the technical databooks). The sound power level is an absolute value indicating the "power" which a sound source generates. For more detailed information please consult our technical databooks.

^{*} For VE power supply only 1~, 220-240V, 50Hz data is displayed in this catalogue.





flexibility while significantly reducing a building's environmental footprint.

Stretch: With the widest range of indoor and outdoor units on the market and great piping flexibility, VRV 5 Heat Recovery suits any commercial building - and can be installed practically anywhere, thanks to its low sound levels

Shîrudo Technology: Thanks to built-in Shîrudo Technology, VRV 5 Heat Recovery offers maximum flexibility out of the box. With all measures factory-integrated, the technology takes complete care of small room applications in your buildings, without any additional considerations, field supplied equipment or time-consuming studies.

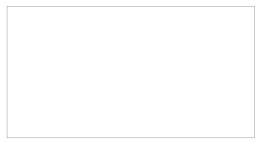
Sustainability: VRV 5 Heat Recovery is more sustainable over its lifecycle, reducing indirect emissions through market-leading seasonal efficiency and highly effective 3-pipe heat recovery. Built specifically for R-32 refrigerant, it reduces Global Warming Potential (GWP) by 71% compared to R-410A systems.

Smart: VRV 5 Heat Recovery is geared for smart comfort. Variable Refrigerant Temperature allows the system to be fully customised to the customer's requirements, ensuring maximum energy efficiency.

Support: Never fear, support is always here for you and your clients. We offer total flexibility and peace of mind from design and specification all the way through to remote monitoring and proactive system maintenance.

Learn more by visiting www.daikin.co.uk/vrv5hr

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Performance programme for Liquid Chilling Packages and Hydronic Heat Pumps, Fan Coil Units and Variable Refrigerant Flow systems. Check ongoing validity of certificate www.eurovent-certification.com

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