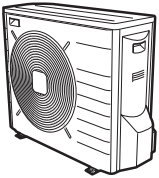




Installation manual

Daikin Altherma – Low Temperature Split outdoor unit



ERLQ004CAV3
ERLQ006CAV3
ERLQ008CAV3

Installation manual
Daikin Altherma – Low Temperature Split outdoor unit

English

CE - DECLARATION-OF-CONFORMITY
CE - KONFORMITÄTSEKRLÄRUNG
CE - DECLARATION-DE-CONFORMITE
CE - CONFORMITEITSEVERKLARING

CE - DECLARACION-DE-CONFORMIDAD
CE - DICHIARAZIONE-DE-CONFORMITA
CE - ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ

CE - DECLARAÇÃO-DE-CONFORMIDADE
CE - ЗАЯВЛЕНИЕ О СООТВЕТСТВИИ
CE - ÖVERENSSTÄMMELSE/SEERKLÄRING
CE - FÖRSÄKRAN-OM-ÖVERENSTÄMMELE

CE - ERKLÆRING OM-SAMSVAR
CE - ILMOITUS-YHDENMUKAISUDESTA
CE - PROHLÁŠENÍ-O-SHODĚ

CE - IZJAVA-O-USKLAĐENOSTI
CE - MEGFELELŐSÉGH-NYILATKOZAT
CE - DEKLARACJA-ZGODNOSCI
CE - DECLARAȚIE-DE-CONFORMITATE

CE - IZJAVA O SKLADNOSTI
CE - VASTAVUSDEKLARATSIOON
CE - ДЕКЛАРАЦИЯ-ЗА-СЪОТВЕТСТВИЕ

CE - ATTIKTIKES-DEKLARACIJA
CE - ATBILSTĪBAS-DEKLARĀCIJA
CE - VYHLÁŠENIE-ZHODY
CE - UYUMLULUK-BILDIRISI

Daikin Europe N.V.

- 01 ^(E) declares under its sole responsibility that the equipment to which this declaration relates:
02 ^(D) erklärt auf seine alleinige Verantwortung daß die Ausrüstung für die diese Erklärung bestimmt ist:
03 ^(F) déclare sous sa seule responsabilité que l'équipement visé par la présente déclaration:
04 ^(NL) verklaart hierbij op eigen exclusieve verantwoordelijkheid dat de apparatuur waarop deze verklaring betrekking heeft:
05 ^(E) declara bajo su única responsabilidad que el equipo al que hace referencia la declaración:
06 ^(I) dichiara sotto la propria responsabilità che gli apparecchi a cui è riferita questa dichiarazione:
07 ^(GR) δηλώνει με αποκλειστική της ευθύνη ότι ο εξοπλισμός στον οποίο αναφέρεται η παρούσα δήλωση:
08 ^(P) declara sob sua exclusiva responsabilidade que os equipamentos a que esta declaração se refere:

ERLQ004CAV3, ERLQ006CAV3, ERLQ008CAV3,

- 01 are in conformity with the following standard(s) or other normative document(s), provided that these are used in accordance with our instructions:
02 der/den folgenden Norm(en) oder einem anderen Normdokument oder -dokumenten entspricht/entsprechen, unter der Voraussetzung, daß sie gemäß unseren Anweisungen eingesetzt werden:
03 sont conformes à la/aux norme(s) ou autre(s) document(s) normatif(s), pour autant qu'ils soient utilisés conformément à nos instructions:
04 conform de volgende norm(en) of één of meer andere bindende documenten zijn, op voorwaarde dat ze worden gebruikt overeenkomstig onze instructies:
05 están en conformidad con la(s) siguiente(s) norma(s) u otro(s) documento(s) normativo(s), siempre que sean utilizados de acuerdo con nuestras instrucciones:
06 sono conformi al(i) seguente(i) standard(s) o altro(i) documento(i) a carattere normativo, a patto che vengano usati in conformità alle nostre istruzioni:
07 είναι σύμφωνα με το(α) ακόλουθο(α) πρότυπο(α) ή άλλο έγγραφο(α) κανονισμών, υπό την προϋπόθεση ότι χρησιμοποιούνται σύμφωνα με τις οδηγίες μας:
08 estão em conformidade com a(s) seguinte(s) norma(s) ou outro(s) documento(s) normativo(s), desde que estes sejam utilizados de acordo com as nossas instruções:

EN60335-2-40,

- 01 following the provisions of:
02 gemäß den Vorschriften der:
03 conformément aux stipulations des:
04 overeenkomstig de bepalingen van:
05 siguiendo las disposiciones de:
06 secondo le prescrizioni per:
07 με την προση των διατάξεων των:
08 de acordo com o previsto em:
09 в соответствии с положениями:
10 under iagttagelse af bestemmelserne i:
11 enligt villkoren i:
12 gitt i henhold til bestemmelsene i:
13 noudattaa määräyksiä:
14 za dodržení ustanovení předpisu:
15 prema odredbama:
16 követeli a(z):
17 zgodnie z postanowieniami Dyrektyw:
18 in urma prevederilor:
19 ob upoštevanju določil:
20 vastavalt nõuetele:
21 следвайки клаузите на:
22 laikantis nuostatų, pateikiamų:
23 levérojot prasības, kas noteiktas:
24 odzřazujúc ustanovenia:
25 bunun koşullarına uygun olarak:

- 01 Note* as set out in <A> and judged positively by
02 Hinweis* wie in <A> aufgeführt und von positiv beurteilt gemäß Zertifikat <C>
03 Remarque* tel que défini dans <A> et évalué positivement par conformément au Certificat <C>
04 Bemerk* zoals vermeld in <A> en positief beoordeeld door overeenkomstig Certificaat <C>
05 Nota* como se establece en <A> y es valorado positivamente por de acuerdo con el Certificado <C>
06 Nota* delineato nel <A> e giudicato positivamente da secondo il Certificato <C>
07 Σημείωση* όπως καθορίζεται στο <A> και κρίνεται θετικά από το σύμφωνα με το Πιστοποιητικό <C>
08 Nota* tal como estabelecido em <A> e com o parecer positivo de de acordo com o Certificado <C>
09 Примечание* как указано в <A> и в соответствии с положительным решением согласно Свидетельству <C>
10 Bemærk* som anført i <A> og positivt vurderet af i henhold til Certifikat <C>

- 09 ^(RU) заявляет, исключительно под свою ответственность, что оборудование, к которому относится настоящее заявление:
10 ^(DK) erklærer under eneansvarlig, at udstyret, som er omfattet af denne erklæring:
11 ^(S) deklarerar i egenskap av huvudsansvarig, att utrustningen som berörs av denna deklaration innebär att:
12 ^(N) erklærer et fullstendig ansvar for at det utstyr som berøres av denne deklarasjon innebærer at:
13 ^(FI) ilmoittaa yksinomaan omalla vastuullaan, että tämän ilmoituksen tarkoitamat laitteet:
14 ^(CZ) prohlašuje ve své plné odpovědnosti, že zařízení, k němuž se toto prohlášení vztahuje:
15 ^(HU) izjavljuje pod isključivo vlastitom odgovornošću da oprema na koju se ova izjava odnosi:
16 ^(PL) tełjes felelősségre tudatában kijelenti, hogy a berendezések, melyekre e nyilatkozat vonatkozik:

- 17 ^(PL) deklaruje na własną i wyłączną odpowiedzialność, że urządzenia, których ta deklaracja dotyczy:
18 ^(RO) declară pe proprie răspundere că echipamentele la care se referă această declarație:
19 ^(BG) z vsjo odgovornostjo izjavlja, da je oprema naprav, na katero se izjava nanaša:
20 ^(HR) kinnitab oma täielikul vastutusel, et käesoleva deklaratsiooni alla kuuluv varustus:
21 ^(BG) декларира на своя отговорност, че оборудването, за което се отнася тази декларация:
22 ^(LT) visiška savo atsakomybe skelbia, kad įranga, kuriai taikoma ši deklaracija:
23 ^(LV) ar pilnu atbildību apliecinā, ka tālāk aprakstītās iekārtas, uz kurām attiecas šī deklarācija:
24 ^(SK) vyhlasuje na vlastnú zodpovednosť, že zariadenie, na ktoré sa vzťahuje toto vyhlásenie:
25 ^(TR) tamamen kendi sorumluluğunda olmaksız olarak bu bildirimini ilgili ölçüde donanımınin aşağıdaki gibi oldüğünü beyan eder:

- 09 соответствуют следующим стандартам или другим нормативным документам, при условии их использования согласно нашим инструкциям:
10 overholder følgende standard(er) eller andet/andre retningsgivende dokument(er), forudsat at disse anvendes i henhold til vore instruksur:
11 respektive utrustning är utförd i överensstämmelse med och följer följande standard(er) eller andra normgivande dokument, under förutsättning att användning sker i överensstämmelse med våra instruktioner:
12 respektive utstyr er i overensstemmelse med følgende standard(er) eller andre normgivende dokument(er), under forutsetning av at disse brukes i henhold til våre instruksur:
13 vastaavat seuraavien standardien ja muiden ohjeellisten dokumenttien vaatimuksia edellyttäen, että niitä käytetään ohjeidemme mukaisesti:
14 za předpokladu, že jsou využívány v souladu s našimi pokyny, odpovídají následujícím normám nebo normativním dokumentům:
15 u skladu sa sljedjećim standardom(ima) ili drugim normativnim dokumentom(ima), uz uvjet da se oni koriste u skladu s našim uputama:
16 megfelelnek az alábbi szabvány(ok)nak vagy egyéb irányadó dokumentum(ok)nak, ha azokat előírás szerint használják:

- 17 spełniają wymogi następujących norm i innych dokumentów normalizacyjnych, pod warunkiem że używane są zgodnie z naszymi instrukcjami:
18 sunt in conformitate cu umătorul (următoarele) standard(e) sau alt(e) document(e) normativ(e), cu condiția ca acestea să fie utilizate in conformitate cu instrucțiunile noastre:
19 skladi ni naslednjimi standardi in drugimi normativi, pod pogojem, da se uporabljajo v skladu z našimi navodili:
20 on vastavuses järgmis(ile) standardi(te)ga või teiste normativsete dokumentidega, kui neid kasutatakse vastavalt meie juhenditele:
21 съответстват на следните стандарти или други нормативни документи, при условие, че се използват съгласно нашите инструкции:
22 atitinka žemiau nurodytus standartus ir (arba) kitus norminius dokumentus su sąlyga, kad yra naudojami pagal mūsų nurodymus:
23 tad, ja lietoati atbilstoši ražotāja norādījumiem, atbilst sekojošiem standartiem un citiem normatīviem dokumentiem:
24 sú v zhode s nasledovnou(y) normou(ami) alebo iným(i) normatívnym(i) dokumentom(ami), za predpokladu, že sa používajú v súlade s našim návodom:
25 ününün, talimatlan miza göre kullanılmaları koşulluyla aşağıdaki standartlar ve norm belirlen belgelele uyumludur:

Low voltage 2006/95/EC Electromagnetic Compatibility 2004/108/EC *

- 01 Directives, as amended.
02 Direktiven, gemäß Änderung.
03 Directives, telles que modifiées.
04 Richtlijnen, zoals geamendeerd.
05 Directivas, según lo enmendado.
06 Direttive, come da modifica.
07 Οδηγίες, όπως τροποποιήθει.
08 Directivas, conforme alteração em.
09 Директив с всеми поправками.
10 Direktiver, med senere ændringer.
11 Direktiv, med foretagne ændringer.
12 Direktivej, med foretatte ændringer.
13 Direktivej, sellaisina kuin ne ovat muutettuina.
14 v platném znení.
15 Smjernice, kako je izmijenjeno.
16 irányelv(ek) és módosításaik rendelkezéseit.
17 z późniejszych poprawkami.
18 Directivelor, cu amendamentele respective.
19 Direktivi, s vsemi spremembami.
20 Direktiivid koos muudatustega.
21 Директиви, с технике изменения.
22 Direktiivose su rapildajumais.
23 Direktiivās un to papildinājums.
24 Smernice, v platnom znení.
25 Değiştirilmis hallerlele Yönetmelikler.

- 21 Забелешка* както е изложено в <A> и оценено положително от съгласно Сертификата <C>
22 Pastaba* kaip nustatyta <A> ir kaip teigiamai nuspresta pagal Certifikatą <C>
23 Piezīmes* kā norādīts <A> un atbilstoši pozitīvajam vērtējumam saskaņā ar sertifikātu <C>
24 Poznámka* ako bolo uvedené v <A> a pozitívne zistené v súlade s osvedčením <C>
25 Not* <A>-da belirlidigi gibi ve <C> Sertifikasina göre tarafindan olumlu olarak deđerlendirildigi gibi.

<A>	DAIKIN.TCF.015P4/03-2012
	DEKRA (NB0344)
<C>	74736-KRQ/EMC97-4957

3PFW68004-6B

DAIKIN

Jean-Pierre Beuselincx
Director
Ostend, 2nd of May 2012

DAIKIN EUROPE N.V.

Zandvoordestraat 300, B-8400 Oostende, Belgium

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1 About the documentation

1.1 About this document

Target audience

Authorized installers

Documentation set

This document is part of a documentation set. The complete set consists of:

Document	Contains...	Format
General safety precautions	Safety instructions that you must read before installing	Paper (in the box of the indoor unit)
Indoor unit installation manual	Installation instructions	
Outdoor unit installation manual	Installation instructions	Paper (in the box of the outdoor unit)
Installer reference guide	Preparation of the installation, technical specifications, good practices, reference data, ...	CD/DVD (in the box of the indoor unit)
Addendum book for optional equipment	Additional info about how to install optional equipment	Paper (in the box of the indoor unit) CD/DVD (in the box of the indoor unit)

Latest revisions of the supplied documentation may be available on the regional Daikin website or via your dealer.

2 About the box

2.1 Outdoor unit

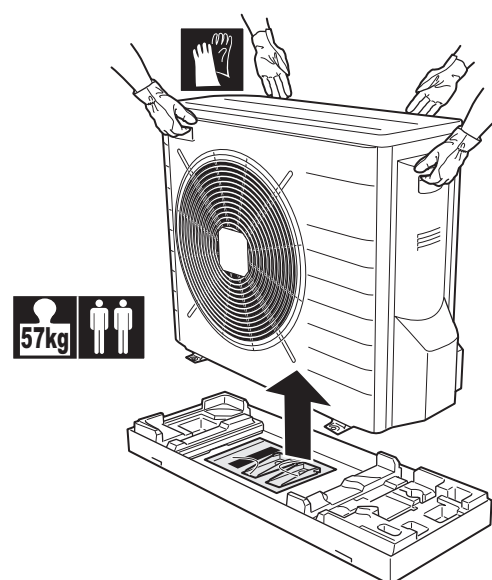
2.1.1 To remove the accessories from the outdoor unit

- 1 Lift the outdoor unit.

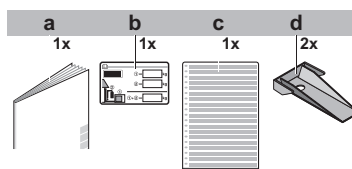


CAUTION

Only handle the outdoor unit as follows:



- 2 Remove the accessories at the bottom of the package.



- a Outdoor unit installation manual
- b Fluorinated greenhouse gases label
- c Multilingual fluorinated greenhouse gases label
- d Unit mounting plate

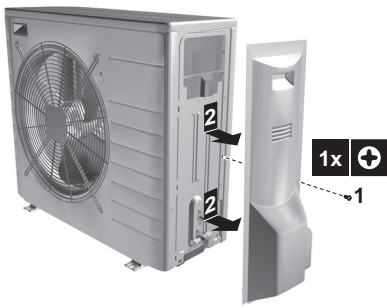
3 Installation

3.1 Opening the units

3.1.1 To open the outdoor unit

- 1 Remove 1 screw from the service cover.

3 Installation



2 Remove the service cover.

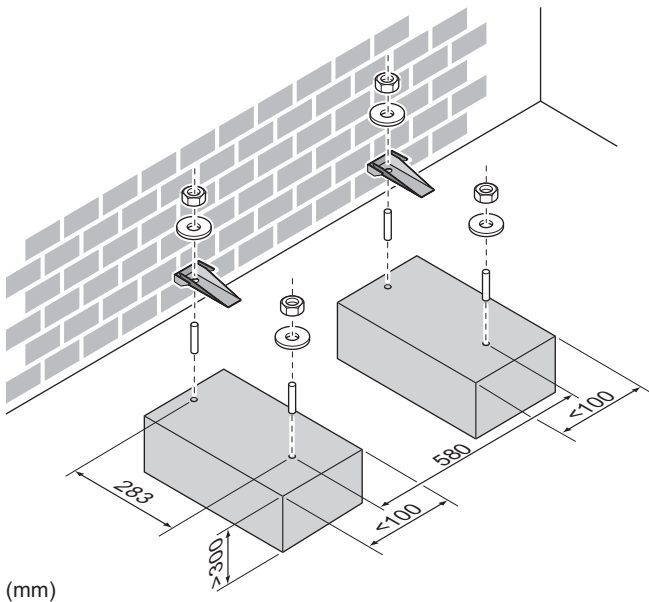
3.2 Mounting the outdoor unit

3.2.1 To prepare the installation structure

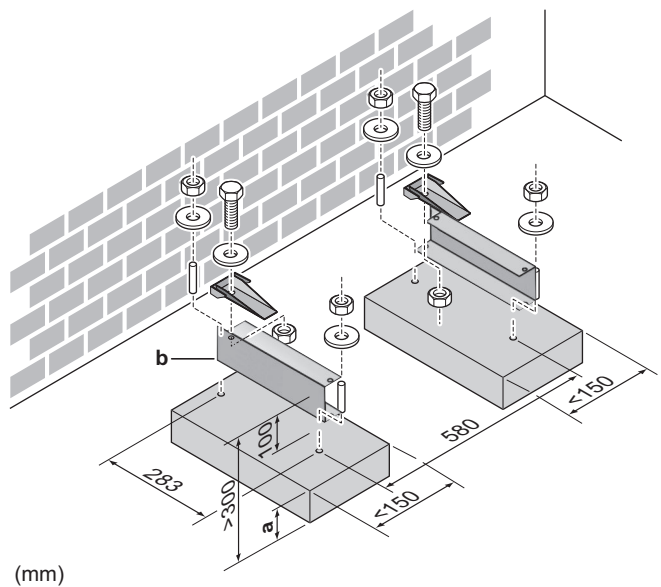
If the unit is installed directly on the floor, prepare 4 sets of M8 or M10 anchor bolts, nuts and washers (field supply) as follows:

i INFORMATION

The maximum height of the upper protruding part of the bolts is 15 mm.

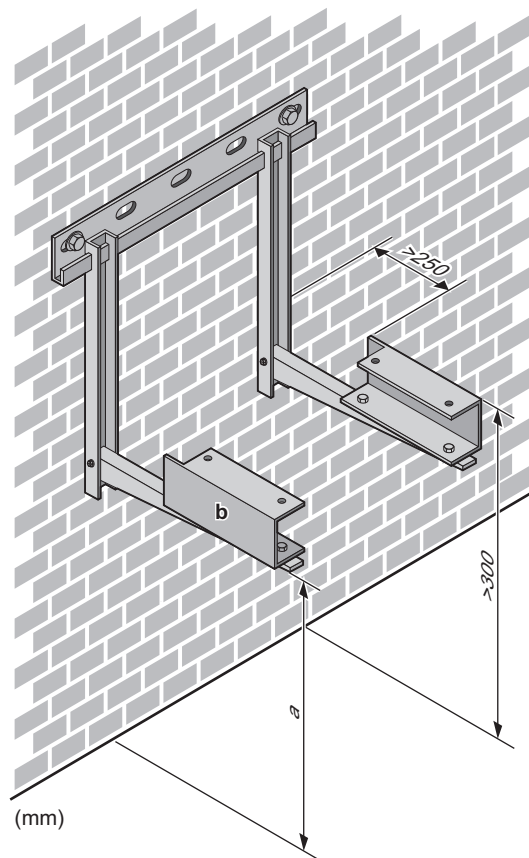


In order to guarantee good operation of the unit in areas with risk of snowfall, a minimum of 10 cm needs to be assured below the bottom plate of the unit. It is recommended to construct a pedestal with the same height as the maximum snowfall height. On this pedestal it is then recommended to install the EKFT008CA option kit to guarantee the minimum space of 10 cm below the bottom plate of the unit.

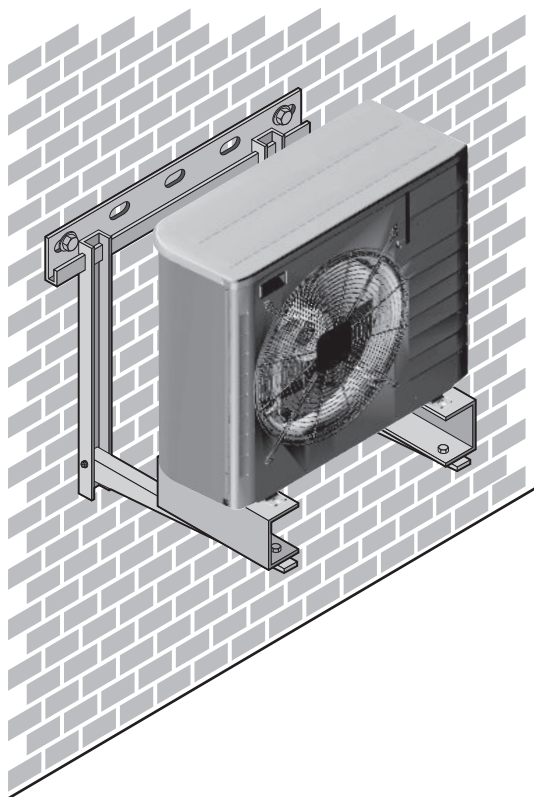


a Maximum snowfall height
b EKFT008CA option kit

If the unit is installed on brackets to the wall, it is advised to use the EKFT008CA option kit and to install the unit as follows:



a Maximum snowfall height
b EKFT008CA option kit



3.2.2 To prepare drain work

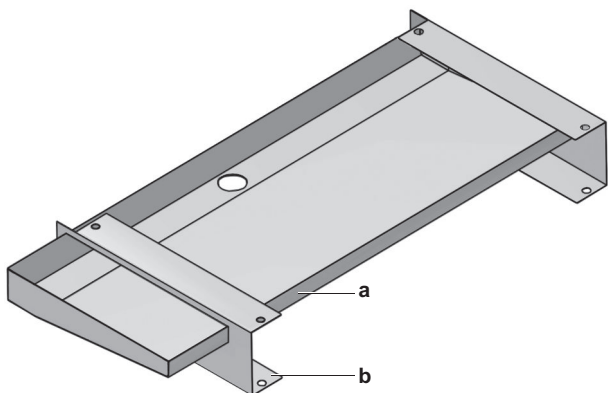
Make sure that condensation water can be evacuated properly.



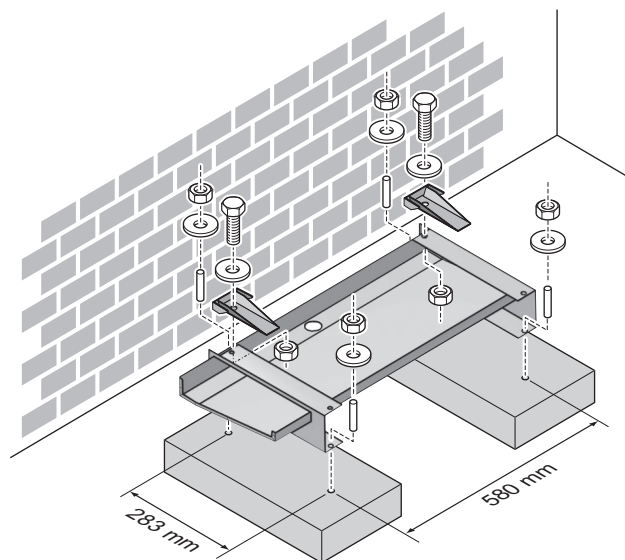
NOTICE

If the drain holes of the outdoor unit are blocked up, provide space of at least 300 mm below the outdoor unit.

An additional drain pan kit (EKDP008CA) can be used to gather the drain water. The drain pan kit consists of:



a Drain pan
b U-beams



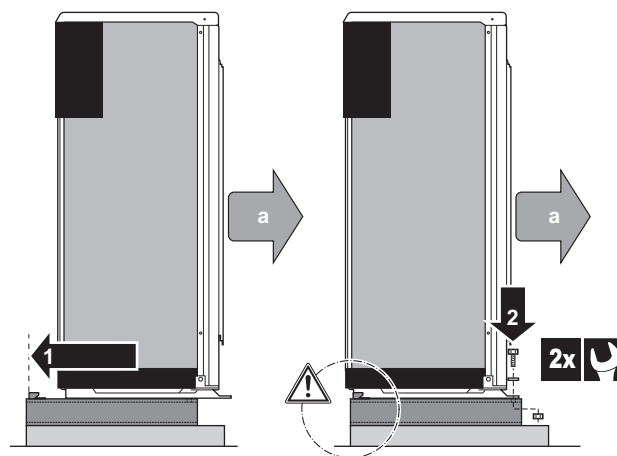
3.2.3 To install the outdoor unit



CAUTION

Do NOT remove the protective cardboard before the unit is installed properly.

- 1 Lift the outdoor unit as described in "2.1.1 To remove the accessories from the outdoor unit" on page 3.
- 2 Install the outdoor unit as follows:



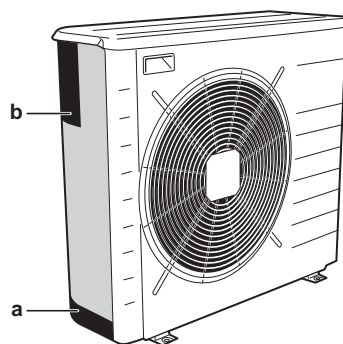
a Air outlet



NOTICE

The pedestal **MUST** be aligned with the backside of the U-beam.

- 3 Remove the protective cardboard and instruction sheet.

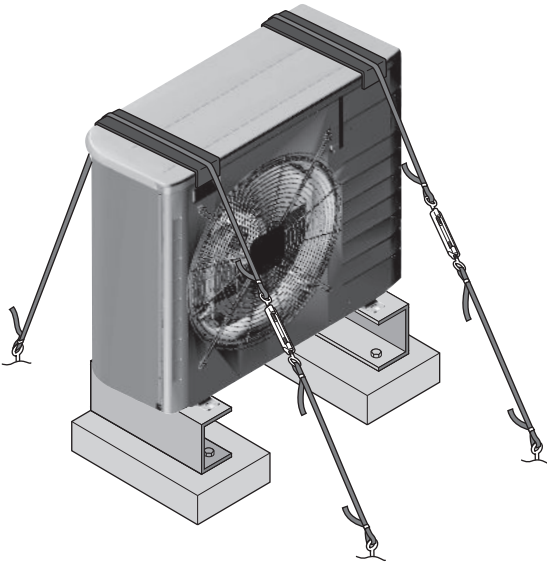


a Protective cardboard
b Instruction sheet

3 Installation

3.2.4 To prevent the outdoor unit from falling over

- 1 Prepare 2 cables as indicated in the following illustration (field supply).
- 2 Place the 2 cables over the outdoor unit.
- 3 Insert a rubber sheet between the cables and the outdoor unit to prevent the cable from scratching the paint (field supply).
- 4 Attach the cable's ends. Tighten those ends.



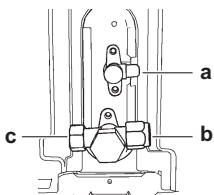
3.3 Connecting the refrigerant piping



DANGER: RISK OF BURNING

3.3.1 To connect the refrigerant piping to the outdoor unit

- 1 Connect the liquid refrigerant connection from the indoor unit to the liquid stop valve of the outdoor unit.



- a Liquid stop valve
- b Gas stop valve
- c Service port

- 2 Connect the gas refrigerant connection from the indoor unit to the refrigerant stop valve of the outdoor unit.

3.4 Checking the refrigerant piping

3.4.1 To check for leaks



NOTICE

- Do NOT exceed the maximum operation pressure of 4000 kPa (40 bar).
- Only use recommended bubble test solution.

- 1 Charge the system with nitrogen gas up to a gauge pressure of at least 200 kPa (2 bar).
- 2 Check for leaks by applying the bubble test solution to all connections.
- 3 Discharge all nitrogen gas.

3.4.2 To perform vacuum drying

- 1 Vacuum the system until the pressure on the manifold indicates -0.1 MPa (-1 bar).
- 2 Leave as is for 4-5 minutes and check the pressure:

If the pressure...	Then...
Does not change	There is no moisture in the system. This procedure is finished.
Increases	There is moisture in the system. Go to the next step.

- 3 Evacuate for at least 2 hours to a pressure on the manifold of -0.1 MPa (-1 bar).
- 4 After turning OFF the pump, check the pressure for at least 1 hour.
- 5 If you do NOT reach the target vacuum or cannot maintain the vacuum for 1 hour, do the following:
 - Check for leaks again.
 - Perform vacuum drying again.



NOTICE

Be sure to open the gas stop valve after piping installation and vacuuming. Running the system with the valve closed, the compressor may break down.

3.5 Charging refrigerant

3.5.1 To determine the additional refrigerant amount

If the total liquid piping length is...	Then...
≤ 10 m	Do NOT add additional refrigerant.
> 10 m	Add 20 g refrigerant per extra meter (above 10 m).

3.5.2 To charge refrigerant



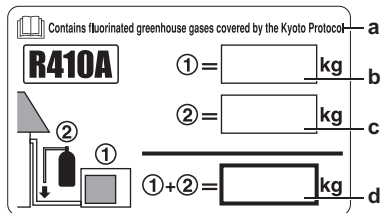
WARNING

Only use R410A as refrigerant. Other substances may cause explosions and accidents.

- 1 Connect the refrigerant cylinder to the service port.
- 2 Charge the additional refrigerant amount.
- 3 Open the gas stop valve.

3.5.3 To fix the fluorinated greenhouse gases label

- 1 Fill in the label as follows:



- a From the multilingual fluorinated greenhouse gases label peel off the applicable language and stick it on top of a.
- b Factory refrigerant charge: see unit name plate
- c Additional refrigerant amount charged
- d Total refrigerant charge

- 2 Fix the label on the inside of the outdoor unit near the gas and liquid stop valves.

3.6 Connecting the electrical wiring



DANGER: RISK OF ELECTROCUTION



WARNING

Always use multicore cable for power supply cables.

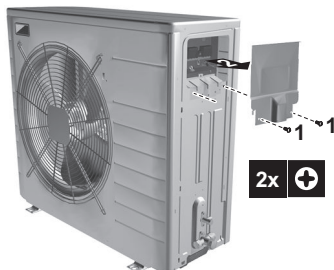
3.6.1 About electrical compliance

Only for ERLQ006CAV3+ERLQ008CAV3

Equipment complying with EN/IEC 61000-3-12 (European/International Technical Standard setting the limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤75 A per phase.).

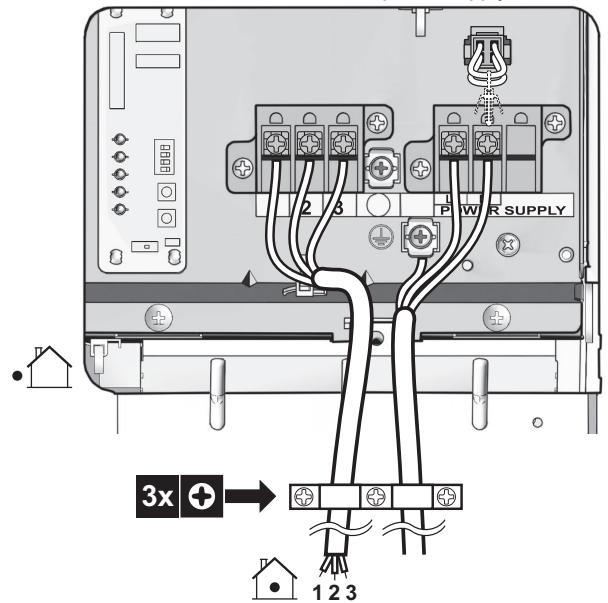
3.6.2 To connect the electrical wiring on the outdoor unit

- 1 Remove the 2 switch box cover screws.
- 2 Remove the switch box cover.



- 3 Open the wire clamp.

- 4 Connect the interconnection cable and power supply as follows:

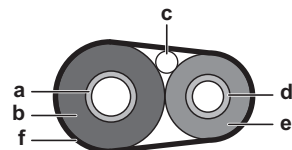


- 5 Install the switch box cover.

3.7 Finishing the outdoor unit installation

3.7.1 To finish the outdoor unit installation

- 1 Insulate and fix the refrigerant piping and interconnection cable as follows:



- a Gas pipe
- b Gas pipe insulation
- c Interconnection cable
- d Liquid pipe
- e Liquid pipe insulation
- f Finishing tape

- 2 Install the service cover.

4 Starting up the outdoor unit

See the indoor unit installation manual for configuration and commissioning of the system.



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4PW73435-1A 2012.11