

Heat reclaim ventilation

VAM-FC



Ventilation with heat recovery as standard

- › 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
- › Optional medium and fine dust filters M6, F7, F8 to meet customer request or legislation
- › Shorter installation time thanks to easy adjustment of nominal air flow rate, so less need for dampers compared with traditional installation.

VAM-FC

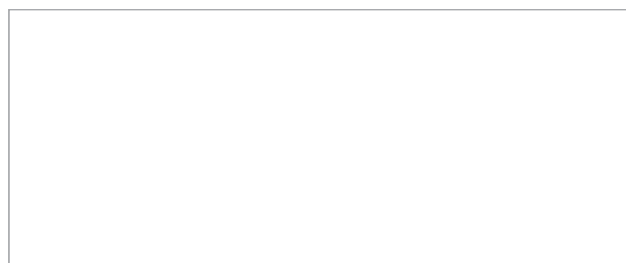


VAM150-250FC

Ventilation				VAM	150FC	250FC	350FC	500FC	650FC	800FC	1000FC	1500FC	2000FC				
Power input - 50Hz	Heat exchange mode	Nom.	Ultra high/High/Low	kW	0.132/0.111/0.058	0.161/0.079/0.064	0.071/0.057/0.020	0.147/0.101/0.049	0.188/0.114/0.063	0.320/0.241/0.185	0.360/0.309/0.198	0.617/0.463/0.353	0.685/0.575/0.295				
	Bypass mode	Nom.	Ultra high/High/Low	kW	0.132/0.111/0.058	0.161/0.079/0.064	0.071/0.057/0.020	0.147/0.101/0.049	0.188/0.114/0.063	0.320/0.241/0.185	0.360/0.309/0.198	0.617/0.463/0.353	0.685/0.575/0.295				
Temperature exchange efficiency - 50Hz	Ultra high/High/Low			%	77.0 (1) / 72.0/78.3 (1) / 72.3/82.8 (1) / 73.2	74.9 (1) / 69.5/76.0 (1) / 70.0/80.1 (1) / 72.0	78.0 (1) / 71.6 (2) / 79.3 (1) / 71.9 (2) / 84.1 (1) / 73.0 (2)	77.0 (1) / 70.2 (2) / 78.8 (1) / 70.7 (2) / 80.9 (1) / 71.3 (2)	77.0 (1) / 69.8 (2) / 79.1 (1) / 71.2 (2) / 81.1 (1) / 72.9 (2)	77.0 (1) / 67.8 (2) / 78.2 (1) / 68.8 (2) / 79.1 (1) / 69.6 (2)	78.0 (1) / 70.2 (2) / 78.6 (1) / 71.1 (2) / 80.2 (1) / 73.4 (2)	78.0 (1) / 69.5 (2) / 79.6 (1) / 70.3 (2) / 80.8 (1) / 71.0 (2)	78.0 (1) / 70.2 (2) / 79.6 (1) / 71.3 (2) / 80.6 (1) / 74.6 (2)				
	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)	63.4 (1) / 65.0 (1) / 70.7 (1)	60.3 (1) / 63.4 (2) / 66.9 (1)	60.3 (1) / 64.0 (1) / 67.3 (1)	62.4 (1) / 63.6 (1) / 64.6 (1)	63.4 (1) / 64.2 (1) / 66.3 (1)	63.4 (1) / 65.0 (1) / 66.2 (1)	63.4 (1) / 64.5 (1) / 67.8 (1)				
Heating		Ultra high/High/Low	%	66.6 (1) / 67.9 (1) / 72.4 (1)	66.6 (1) / 67.4 (1) / 70.7 (1)	67.6 (1) / 68.9 (1) / 73.7 (1)	64.5 (1) / 67.6 (1) / 71.1 (1)	65.5 (1) / 67.7 (1) / 69.7 (1)	67.6 (1) / 68.8 (1) / 69.8 (1)	68.6 (1) / 69.4 (1) / 71.5 (1)	68.6 (1) / 69.7 (1) / 70.5 (1)	68.6 (1) / 69.7 (1) / 72.1 (1)					
Operation mode				Heat exchange mode, bypass mode, fresh-up mode													
Heat exchange system				Air to air cross flow total heat (sensible + latent heat) exchange													
Heat exchange element				Specially processed non-flammable paper													
Dimensions	Unit	HeightxWidthxDepth	mm	285x776x525		301x828x816		364x1,000x868		364x1,000x1,160		726x1,510x868		726x1,510x1,160			
Weight	Unit		kg	24.0		33.0		51.0		54.0		63.0		128		145	
Casing	Material			Galvanised steel plate													
Fan-Air flow rate - 50Hz	Heat exchange mode	Ultra high/High/Low	m ³ /h	150 (3) / 140 (3) / 105 (3)	250 (3) / 230 (3) / 155 (3)	350 / 320 / 210	500 / 410 / 310	650 / 545 / 450	800 / 725 / 665	1,000 / 950 / 820	1,500 / 1,350 / 1,230	2,000 / 1,880 / 1,500					
	Bypass mode	Ultra high/High/Low	m ³ /h	150 (3) / 140 (3) / 105 (3)	250 (3) / 230 (3) / 155 (3)	350 / 320 / 210	500 / 410 / 310	650 / 545 / 450	800 / 725 / 665	1,000 / 950 / 820	1,500 / 1,350 / 1,230	2,000 / 1,880 / 1,500					
Fan-External static pressure - 50Hz	Ultra high/High/Low		Pa	90 (3) / 87 (3) / 40 (3)	70 (3) / 63 (3) / 25 (3)	103 / 93 / 51	83 / 57 / 35	100 / 73 / 49	109 / 94 / 78	147 / 135 / 100	116 / 97 / 80	132 / 118 / 77					
Air filter	Type			Multidirectional fibrous fleeces													
Sound pressure level - 50Hz	Heat exchange mode	Ultra high/High/Low	dBA	27.0 / 26.0 / 20.5	28.0 / 26.0 / 21.0	32.0 / 31.5 / 23.5	33.0 / 31.5 / 24.5	34.5 / 33.0 / 27.0	36.0 / 34.5 / 31.0	36.0 / 35.0 / 31.0	39.5 / 38.0 / 34.0	40.0 / 38.0 / 35.0					
	Bypass mode	Ultra high/High/Low	dBA	27.0 / 26.5 / 20.5	28.0 / 27.0 / 21.0	32.0 / 31.0 / 24.5	33.5 / 32.5 / 25.5	34.5 / 34.0 / 27.0	36.0 / 34.5 / 31.0	36.0 / 35.5 / 31.0	40.5 / 38.0 / 33.5	40.0 / 38.0 / 35.0					
Operation range	Min.		°CDB	-15													
	Max.		°CDB	50													
	Relative humidity		%	80% or less													
Connection duct diameter			mm	100	150	200	250	350									
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/60/220-240/220													
Current	Maximum fuse amps (MFA)		A	15.0					16.0								
Specific energy consumption (SEC)	Cold climate		kWh/(m ² ·a)	-56.0 (4)	-60.5 (4)												
	Average climate		kWh/(m ² ·a)	-22.1 (4)	-27.0 (4)												
	Warm climate		kWh/(m ² ·a)	-0.100 (4)	-5.30 (4)												
SEC class				D / (4)	B / (4)												
Maximum flow rate at 100 Pa ESP	Flow rate		m ³ /h	130 (3)	207 (3)												
	Electric power input		W	129	160												
Sound power level (Lwa)			dB	40	43	48	50	51	53	55	57						
Annual electricity consumption			kWh/a	18.9 (4)	13.6 (4)												
Annual heating saved	Cold climate		kWh/a	41.0 (4)	40.6 (4)												
	Average climate		kWh/a	80.2 (4)	79.4 (4)												
	Warm climate		kWh/a	18.5 (4)	18.4 (4)												

(1) Measured according to JIS B 8628 (2) Measured according to EN308 : 1997 (3) Clean the filter when the filter icon appears on the controller screen. Regular filter cleaning is important for delivered air quality and for the unit's energy efficiency. (4) In accordance with commission regulation (EU) No 1254/2014 | In accordance with commission regulation (EU) No 1253/2014 | At reference flow rate in accordance with commission regulation (EU) No 1254/2014

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