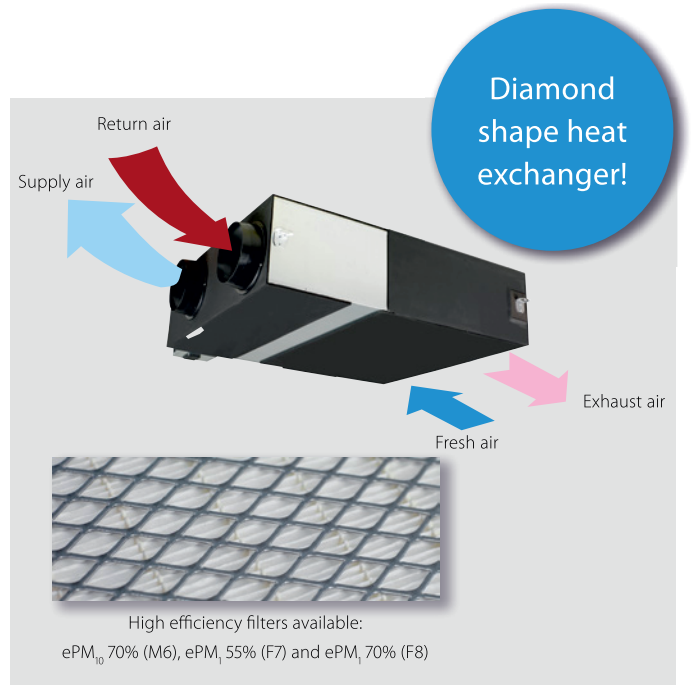


# Energy recovery ventilation

## 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 CO<sub>2</sub> 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
- › Wide range of units: air flow rate from 150 up to 2,000 m<sup>3</sup>/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
- › VAM-J8 series are connectable to EKVDX DX coil for air processing
- › Possibility of CO<sub>2</sub> concentration when combining VAM-J8 with optional BRYMA CO<sub>2</sub> sensor and Madoka remote controller (with or without EKVDX)



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



VAM-FC9



VAM-J8

Ventilation		VAM/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	0.085/0.061/0.031	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		%	77.0(1)/72.0(2)/78.3(1)/72.3(2)/82.8(1)/73.2(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 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			301x1,113x886		368x1,354x920		368x1,354x1,172		731x1,354x1,172
Weight	Unit		kg	24.0			46.5		61.5		79.0		157
Casing			Material	Galvanised steel plate									
Fan	Air flow rate - 50Hz	Heat exchange mode	Ultra high/High/Low	m <sup>3</sup> /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	m <sup>3</sup> /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	Ultra high/High/Low	Pa	90 /87/40			70 /63/25		90 (1)/70.0 /50.0 (1)				
Air filter	Type			Multidirectional fibrous fleeces			Multidirectional fibrous fleeces (G3)						
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 unit		°CDB	-			0°C~40°CDB, 80% RH or less						
Connection duct diameter			mm	100	150	200		250		2x250			
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 <sup>2</sup> .a)	-56.0 (5)		-60.5 (5)		-					
	Average climate		kWh/(m <sup>2</sup> .a)	-22.1 (5)		-27.0 (5)		-					
	Warm climate		kWh/(m <sup>2</sup> .a)	-0.100 (5)		-5.30 (5)		-					
SEC class				D / See note 5			B / See note 5		-				
Maximum flow rate at 100 Pa ESP	Flow rate		m <sup>3</sup> /h	130	207	-							
Sound power level (Lwa)	Electric power input		W	129	160	-							
Annual electricity consumption			kWh/a	40	43	51	54	58	61	62	65		
Annual heating saved	Cold climate		kWh/a	18.9 (5)		13.6 (5)		-					
	Average climate		kWh/a	41.0 (5)		40.6 (5)		-					
	Warm climate		kWh/a	80.2 (5)		79.4 (5)		-					
	Warm climate		kWh/a	18.5 (5)		18.4 (5)		-					

(1) Measured according to JIS B 8628 | (2) Measured at reference flow rate according to EN13141-7 | (5) At reference flow rate in accordance with commission regulation (EU) No 1254/2014