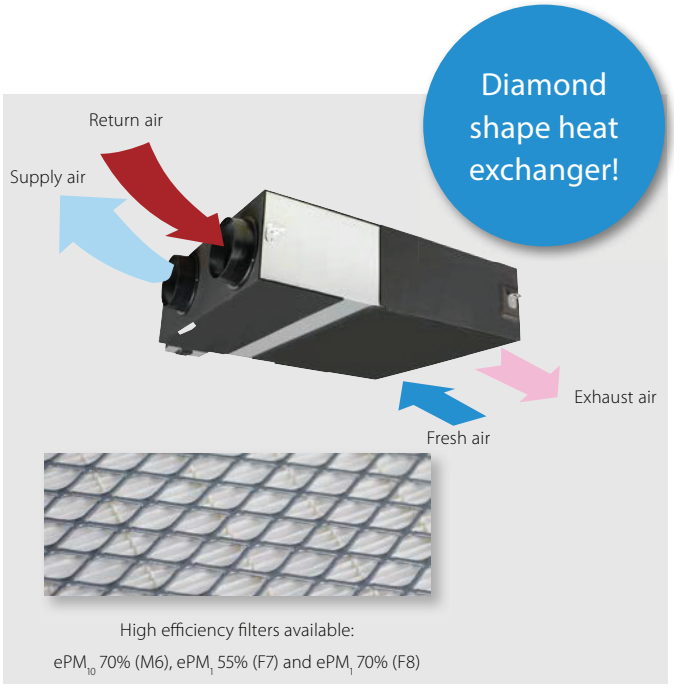
Energy recovery ventilation

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_2 sensor
- 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^3/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



ErP COMPLIANT

Ventilation				VAM/VAM	150FC9	250FC9	350J	500J	650J	800J	1000J	1500J	2000J
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^3/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^3/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/(m².a)	-56.0 (5)	-60.5 (5)	-						
	Average climate			kWh/(m².a)	-22.1 (5)	-27.0 (5)	-						
	Warm climate			kWh/(m².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^3/h	130	207	-						
	Electric power input			W	129	160	-						
Sound power level (Lwa)				dB	40	43	51	54	58		61	62	65
Annual electricity consumption				kWh/a	18.9 (5)	13.6 (5)	-						
Annual heating saved	Cold climate			kWh/a	41.0 (5)	40.6 (5)	-						
	Average 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