

VAM-FC9/J8



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Heat Recovery Ventilation

Fully ErP compliant Heat Recovery Ventilation systems for recovering waste energy from internal spaces to reduce the load on air conditioning and heating systems.



VAM-J8

The VAM-FC9/J8 series heat recovery ventilation systems are very high efficiency heat recovery ventilation systems designed to deliver fresh air into occupied spaces whilst reducing the load on the heating and cooling systems by up to 73%.

Suitable for most commercial applications with fresh air requirements up to 2000m³/h, the VAM-FC9/J8 series is fully compliant with the 2018 ErP lot 6 legislation and incorporates DC fan motors and a specially developed heat exchange element without the need for any condensate drainage.

A full range of optional accessories are available including CO₂ sensors to maintain indoor air quality whilst decreasing energy consumption and a range of filters from M6 (medium) to F7 (fine) can be used to allow flexibility of design. Heater batteries are also available which aid the heat exchange efficiency at low ambient conditions. Weatherproof enclosures can also be purchased for when there is a need to install the VAM units outside.

For applications with high humidity or where odours might be present, please see our Modular Light series which use aluminium heat exchangers for high efficiency sensible energy recovery. For smaller projects with airflows from 150 to 250m³/h see our VAM-FC9/J8 range.

Features:

- > Energy saving ventilation using indoor heating, cooling and moisture recovery
- > Ideal solution for shops, restaurants or offices requiring maximum floor space for furniture, decorations and fittings
- > Free cooling possible when outdoor temperature is below indoor temperature (e.g. during night time)
- > Reduced energy consumption thanks to specially developed DC fan motor
- > Prevent energy losses from over-ventilation while improving indoor air quality with optional CO₂ sensor
- > Can be used as standalone or integrated in the Sky Air or VRV system
- > 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 through the remote controller, so less need for dampers compared with traditional installation
- > No drain piping needed
- > Positive and negative pressure settings are available

VAM-FC9/J8 Heat Recovery Ventilation

			VAM150FC9	VAM250FC9	VAM350J8	VAM500J8	VAM650J8	VAM800J8	VAM1000J8	VAM1500J8	VAM2000J8
Dimensions	Height	mm	285	285	305	305	368	368	368	731	731
	Width	mm	776	776	1113	1113	1354	1354	1354	1354	1354
	Depth	mm	525	525	866	866	920	1172	1172	1172	1172
Weight		kg	23	23	46.5	46.5	61.5	76.5	76.5	160	160
Duct Connection Diameter		mm	100	150	200	200	250	250	250	2 x 250**	2 x 250**
Air Flow Rate	Ultra-High	m³/hr	150	250	350	500	650	800	1000	1500	2000
	High	m³/hr	140	230	300	425	550	680	850	1275	1700
	Low	m³/hr	105	155	200	275	350	440	550	825	1100
	Ultra-High	m³/sec	0.042	0.069	0.097	0.139	0.181	0.222	0.278	0.417	0.556
	High	m³/sec	0.039	0.064	0.083	0.118	0.153	0.189	0.236	0.354	0.472
	Low	m³/sec	0.029	0.043	0.056	0.076	0.097	0.122	0.153	0.229	0.306
External Static Pressure	Maximum	Pa	150 / -	250 / -	350 / 150	500 / 120	650 / 120	800 / 200	1000 / 170	1500 / 200	2000 / 170
	Ultra-High	Pa	90	70	90	90	90	90	90	90	90
	High	Pa	87	63	70	70	70	70	70	70	70
	Low	Pa	40	25	50	50	50	50	50	50	50
Sound Pressure Level (Heat Exchange Mode)	Ultra-High	dBA	27.0	28.0	34.5	37.5	39.0	39.0	42.0	42.0	45.0
	High	dBA	26.0	26.0	32.0	35.0	36.0	36.0	38.5	39.0	41.5
	Low	dBA	20.5	21.0	29.0	30.5	31.0	30.5	32.5	33.5	36.0
Electrical Details	Power Supply	V / Hz / Phase	230 / 50 / 1								
	Running Current	A	0.9	0.9	1.6	2.1	2.8	4.4	4.9	8.8	9.8
	Max Fuse Size	A	16	16	16	16	16	16	16	16	16

* For full details of specifications relating to EN308 please see the technical data book. ** 1 x 350 if optional plenum chambers EKPLEN200 are used.

Optional Accessory Compatibility	VAM150FC9	VAM250FC9	VAM350J8	VAM500J8	VAM650J8	VAM800J8	VAM1000J8	VAM1500J8	VAM2000J8
Inlet Heater Battery+	GSIE-KA10009	GSIE-KA15018	GSIEKA20024			GSIEKA25030		GSIEKA35530	

+ Heater battery does NOT require PCB adaptor to connect to VAM. UK,VH-CK VAM EHBX24 conversion kit cable included.

++ EKPLEN200 is required to connect VH5B to VAM1500 / 2000 J.

Optional Inlet Heater Battery		GSIEKA10009	GSIEKA15018	GSIEKA20024	GSIEKA25030	GSIEKA35530
Capacity	kW	0.9	1.8	2.4	3	3
Recommended Fuse Size	A	6	10	16	16	16
Duct Diameter	mm	100	150	200	250	355

Accessory Ref	Description
BRC1H52W	Wired touch screen remote controller - White
BRC1H52S	Wired touch screen remote controller - Silver
BRC1H52K	Wired touch screen remote controller - Black
KRP2A52 and UK.FB2	System adaptor PCB for remote on/off, status indication and temperature setting
RTD-Net and UK.FB2	Modbus Interface PCB for Sky Air and VRV
RTD-20 and UK.FB2	Energy control PCB for Sky Air and VRV
KRP50-2	PCB Adaptor for VAM-A series connection to humidifier
BRP4A50A	PCB Adaptor for VAM-B Series connection to 3rd party heater or humidifier
EKAFVJ50F6	Air filter for VAM350 / 500 J : Medium M6
EKAFVJ50F7	Air filter for VAM350 / 500 J : Fine F7
EKAFVJ50F8	Air filter for VAM350 / 500 J : Fine F8
EKAFVJ65F6	Air filter for VAM650 / 800 J : Medium M6
EKAFVJ65F7	Air filter for VAM650 / 800 J : Fine F7
EKAFVJ65F8	Air filter for VAM650 / 800 J : Fine F8
EKAFVJ100F6	Air filter for VAM1000 / 2000 J : Medium M6
EKAFVJ100F7	Air filter for VAM1000 / 2000 J : Fine F7
EKAFVJ100F8	Air filter for VAM1000 / 2000 J : Fine F8
BRYMA65	CO ₂ Sensor for VAM350 / 500 / 650
BRYMA100	CO ₂ Sensor for VAM800 / 1000
BRYMA200	CO ₂ Sensor for VAM1500 / 2000
EKPLEN200	Plenum for VAM1500 & 2000 (4 required per VAM) 350mm duct

Notes:

- Please contact your local sales office for required options when combined operation with an air conditioning system is required.
- Only one filter is required to cover the whole of one side of the heat exchanger, even if the heat exchanger has two sections. For VAM 1500/2000 two filters are required.
- VKM models must be connected as the slave indoor unit of a standard VRV indoor unit and share the same BRC1H* remote controller and BS-Q box (If connected to Heat Recovery).

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