

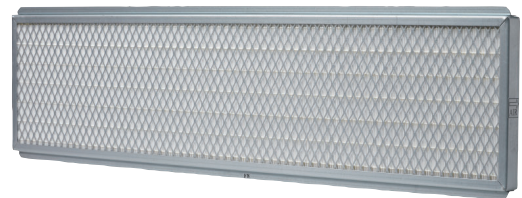


VAM filter options to suit your application

A range of VAM filter options is available to suit different outdoor air quality levels and indoor air quality requirements. The VAM-J range comes with a standard G3 filter, however this can be upgraded to suit your particular situation and application.

Filter overview

FILTERS	Number of filters	U4 (pre-filter + filter for supply air, pre-filter + filter for exhaust)
	Standard filters	G3
	Optional filters	M6, F7, F8
	Optional pre-filters	G3, M6
	Filter replacement trigger	Fan power based
	Previous EN 13779 compliance	Up to IDA2 / ODA2
	New EN 16798-3:2017 compliance	Up to SUP2 / ODA3



Filter selection and unit set-up

- > Choose the required air flow
- > Select the filter [see over]
- > Add up the pressure drops of the duct system on-site and the filter pressure drop at the design air flow rate. [see data book for filter characteristics]
- > Compare with unit performance characteristics to see resulting airflow and ESP.





Selecting a Filter

When selecting a filter, both the indoor and outdoor air quality needs to be considered. Outdoor air quality is given as ODA levels 1 to 3. Indoor air quality is given as IDA levels 1 to 3. Please select the level suitable for your situation.

Outdoor air quality	
ODA 1	Pure air
ODA 2	High concentration of particles in air
ODA 3	High concentration gas pollution and particles
Indoor air quality	
IDA 1	Optimum quality air [required in hospitals, laboratories, nurseries etc]
IDA 2	Good air quality [required in offices, residential environments, museums etc]
IDA 3	Medium air quality [required in commercial buildings, cinema, theatres, hotels, bars, gyms, computers rooms]

Filter option specifications

All filters are to EN779:2012 standard.

Table 2

Outdoor Air Quality	Indoor Air quality		
	IDA 1	IDA 2	IDA 3
ODA 1	Na	ePM ₁ 70% (F8)	ePM ₁ 50% (F7)
ODA 2	Na	ePM ₁₀ 70% (M6) ePM ₁ 70% (F8)	ePM ₁₀ 75% (M5) ePM ₁ 50% (F7)
ODA 3	na	NA	ePM ₁₀ 75% (M5) ePM ₁ 50% (F7)

Filter selection

- > Consider outdoor air environment and select appropriate level [Table 1]
- > Choose indoor air quality level required for the application and select appropriate level [Table 1]
- > Select filter grade [Table 2]
- > Assess system pressure drop [Table 3 nominal – see data book for graph as different air flow rates]
- > Select material numbers and orders filters [Table 4]

Filter pressure drop for selected unit at nominal air flow rate

Table 3

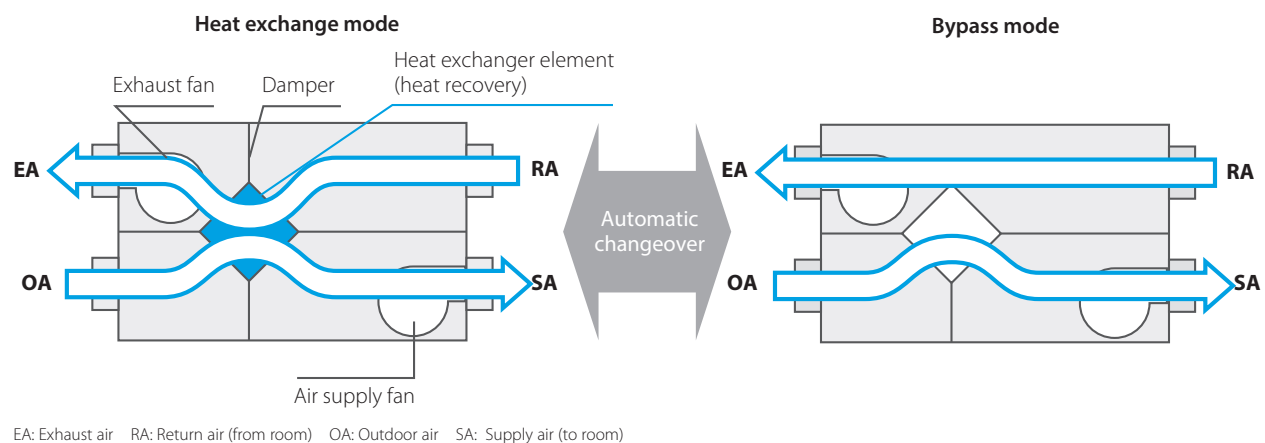
Unit	Airflow [m ³ /Hr]	ePM ₁₀ 70% (M6)	ePM ₁ 55% (F7)	ePM ₁ 70% (F8)
VAM350J	350	39 Pa	52 Pa	88 Pa
VAM500J	500	65 Pa	87 Pa	148 Pa
VAM650J	650	61 Pa	83 Pa	140 Pa
VAM800J	800	89 Pa	121 Pa	206 Pa
VAM1000J	1000	80 Pa	109 Pa	185 Pa
VAM1500J	1500	79 Pa	106 Pa	181 Pa
VAM2000J	2000	80 Pa	109 Pa	185 Pa

Use the following material numbers for ordering

Table 4

Filter grade	VAM 350J	VAM 500J	VAM 650J	VAM 800J	VAM 1000J	VAM 1500J	VAM 2000J
ePM ₁₀ 70% (M6)	EKAFV J50F6	EKAFV J50F6	EKAFV J65F6	EKAFV J100F6	EKAFV J100F6	EKAFV J100F6 x2	EKAFV J100F6 x2
ePM ₁ 55% (F7)	EKAFV J50F7	EKAFV J50F7	EKAFV J65F7	EKAFV J100F7	EKAFV J100F7	EKAFV J100F7 x2	EKAFV J100F7 x2
ePM ₁ 70% (F8)	EKAFV J50F8	EKAFV J50F8	EKAFV J65F8	EKAFV J100F8	EKAFV J100F8	EKAFV J100F8 x2	EKAFV J100F8 x2

Different operation modes of ERV/HRV units



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