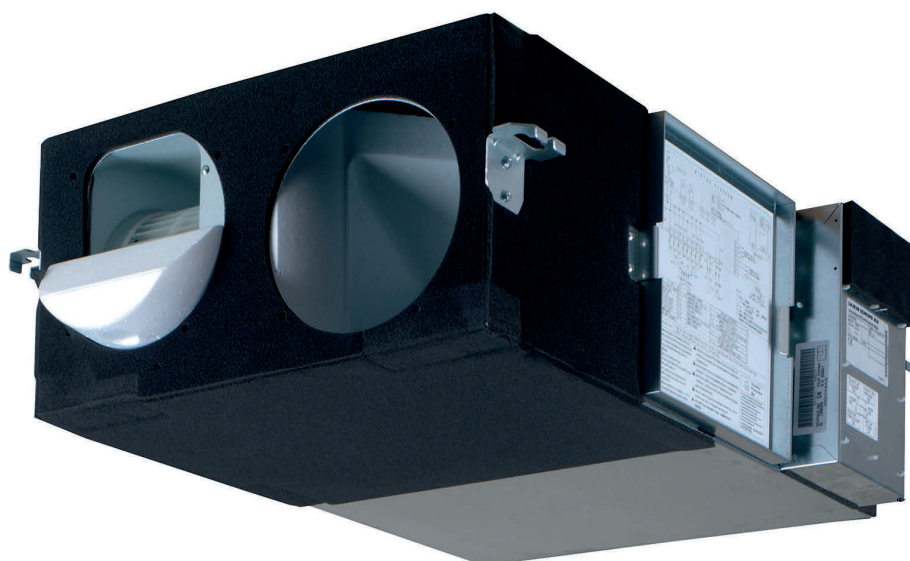




Daikin VAM-FC9 type VAM-FC9

Brand

- Daikin

Product

- Total Heat Exchanger - VAM-FC9

Application

- Ventilation

Advantage

PRODUCT 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 (eg. during nighttime)
- 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 stand alone or integrated in the Sky Air or VRV system
- Wide range of units: air flow rate from 150 up to 2,000 m³/h
- Optional medium and fine dust filters ePM10 70% (M6), ePM1 55% (F7), ePM1 70% (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.
- Specially developed heat exchange element with High Efficiency Paper (HEP)
- No drain piping needed
- Can operate in over- and under pressure
- Total fresh air solution with optional electrical heater

Applicable controller

Indoor unit has Daikin P1/P2 & F1/F2 connectivity.

BRC1D52 - Hard wired controller (old style)

BRC1E53A - Hard wired controller

BRC1H52W - Madoka controller in White

BRC1H52S - Madoka controller in Silver

BRC1H52K - Madoka controller in Black

Accessories

KRP2A52 - System adaptor PCB for remote on/off, status indication and temperature setting

RTD-Net - Modbus Interface PCB for Sky Air and VRV

RTD-20 - Energy control PCB for Sky Air and VRV

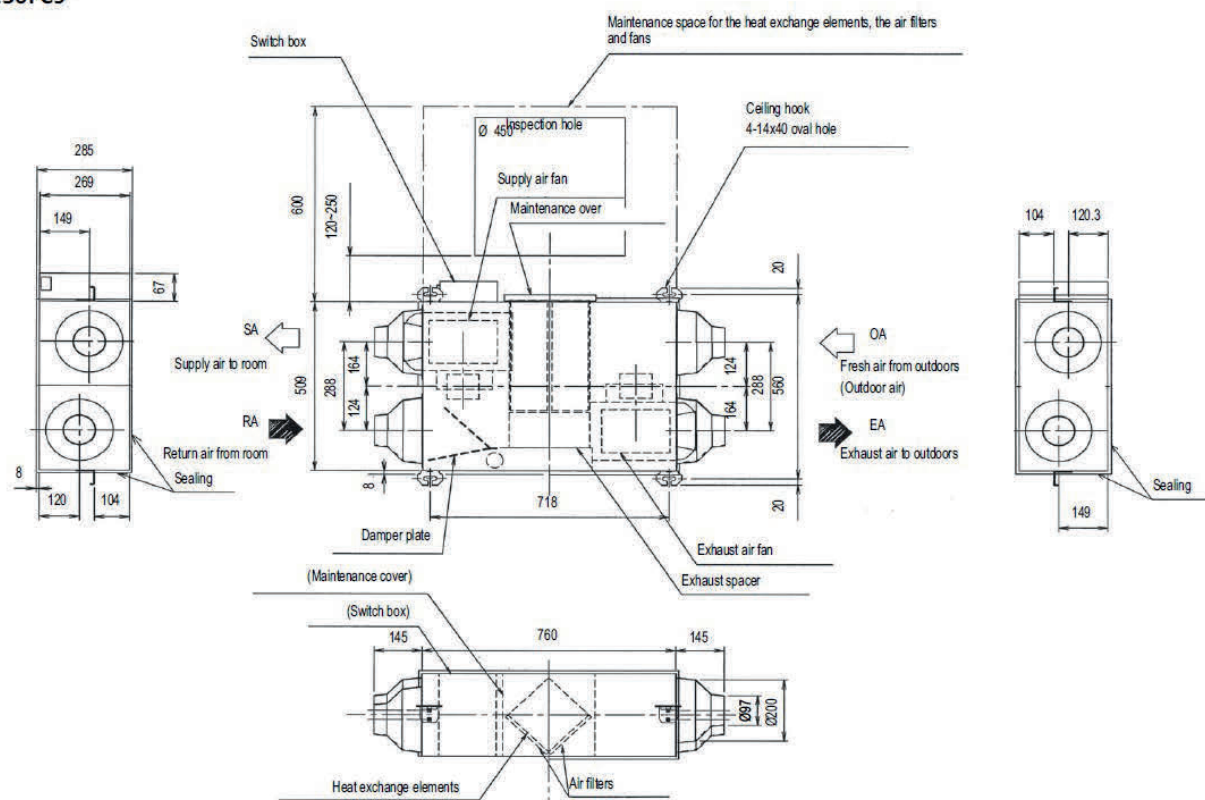
BRP4A50 - PCB Adaptor for VAM-FC series connection to 3rd party heater

KRP50-2 - PCB Adaptor for VAM-FC series connection to humidifier

Specifications							
Power input - 50Hz	Heat exchange mode	Nom.	Ultra high	kW	VAM150FC9 0.132	VAM250FC9 0.161	
			High	kW	0.111	0.079	
			Low	kW	0.058	0.064	
	Bypass mode	Nom.	Ultra high	kW	0.132	0.161	
			High	kW	0.111	0.079	
Low			kW	0.058	0.064		
Casing	Material		Galvanised steel plate				
Insulation material			Self-extinguishable urethane foam				
Dimensions	Unit		Height	Mm	285	285	
			Width	Mm	776	776	
			Depth	Mm	525	525	
Weight	Unit			kg	23.0	23.0	
Fan	Type		Sirocco fan			Sirocco fan	
Air flow rate - 50Hz	Heat exchange mode		Ultra high	m³/h	150	250	
			High	m³/h	140	230	
			Low	m³/h	105	155	
	Bypass mode		Ultra high	m³/h	150	250	
			High	m³/h	140	230	
			Low	m³/h	105	155	
	External static pressure - 50Hz		Ultra high	Pa	90.0	70.0	
			High	Pa	87.0	63.0	
			Low	Pa	40.0	25.0	
Fan motor	Quantity				2	2	
	Output	50 Hz	W		30	30	
Temperature exchange efficiency - 50Hz	Ultra high		%	77.0 , 72.0	74.9 , 69.5		
	High		%	78.3 , 72.3	76.0 , 70.0		
	Low		%	82.8 , 73.2	80.1 , 72.0		
Enthalpy exchange efficiency - 50Hz	Cooling		Ultra high	%	60.3	60.3	
			High	%	61.9	61.2	
			Low	%	67.3	64.5	
	Heating		Ultra high	%	66.6	66.6	
			High	%	67.9	67.4 (2)	
			Low	%	72.4	70.7	
	Operation range	Min.		°CDB	-15	-15	
		Max.		°CDB	50	50	
	Relative humidity			%	80 or less	80 or less	
Sound pressure level - 50Hz	Heat exchange mode		Ultra high	dBA	27.0	28.0	
			High	dBA	26.0	26.0	
			Low	dBA	20.5	21.0	
	Bypass mode		Ultra high	dBA	27.0	28.0	
			High	dBA	26.5	27.0	
		Low	dBA	20.5	21.0		
Heat exchange system		Air to air cross flow total heat (sensible + latent heat) exchange				Air to air cross flow total heat (sensible + latent heat) exchange	
Heat exchange element		Specially processed non-flammable paper				Specially processed non-flammable paper	
Air filter	Type	Multidirectional fibrous fleeces				Multidirectional fibrous fleeces	
Connection duct diameter	Mm	100				150	
Operation mode		Heat exchange mode, bypass mode, fresh-up mode				Heat exchange mode, bypass mode, fresh-up mode	
General	Supplier/Manufacturer details		Name or trademark	Daikin Europe N.V.		Daikin Europe N.V.	
	Product description		Model identifier	VAM150FCVE		VAM250FCVE	
Specific energy consumption (SEC)	Cold climate		kWh/(m².a)	-65.4	-65.1		
	Average climate		kWh/(m².a)	-27.1	-29.2		
	Warm climate		kWh/(m².a)	-2.51	-6.10		
	SEC class			B	B		
Type of product		Bidirectional RVU				Bidirectional RVU	
Type of drive		Multi-speed drive				Multi-speed drive	
Heat recovery system		recuperative				recuperative	
Thermal efficiency		%	89.1 (3)				80.4 (3)
Maximum flow rate at 100 Pa ESP	Flow rate		m³/h	130	207		
Sound power level (Lwa)	Electric power input		W	129	160		
	dB			40	43		
Reference flow rate	m³/s			0.025	0.035		
Reference pressure difference	Pa			50.0	50.0		
Specific power input	W/(m³/h)			0.616	0.454		
Ventilation control	Type			Clock control	Clock control		
	Factor			0.95	0.95		
Maximum external leakage	%			7.42	4.66		
Maximum internal leakage	%			4.50	4.50		
Annual electricity consumption	kWh/a			18.6	13.8		
Annual heating saved	Cold climate		kWh/a	45.7	43.1		
	Average climate		kWh/a	89.4	84.3		
	Warm climate		kWh/a	20.7	19.5		
Power supply	Name			VE	VE		
	Phase			1~	1~		
	Frequency		Hz	50/60	50/60		
Voltage range	Voltage		V	220-240/220	220-240/220		
	Min.		%	-10	-10		
	Max.		%	10	10		
Current	Minimum circuit amps (MCA)		A	0.900	0.900		
	Maximum fuse amps (MFA)		A	15.0	15.0		
	Fan motor rated output		kW	0.03x2	0.03x2		
	Full load amps (FLA)	Fan motor	A	0.400	0.400		
		Fan motor 2	A	0.400	0.400		

Dimensions

VAM150FC9



Dimensions

VAM250FC9

