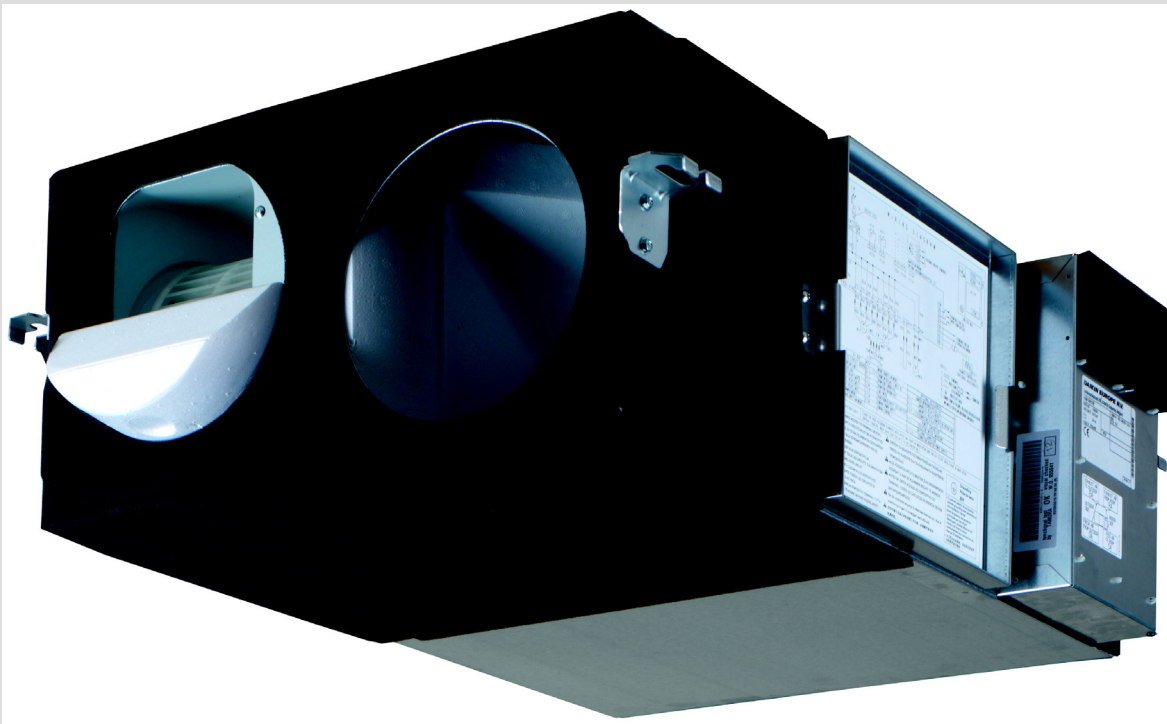


Ventilation  
Technical Data

VAM-FC



- > VAM150FCVE
- > VAM250FCVE
- > VAM350FCVE
- > VAM500FCVE
- > VAM650FCVE
- > VAM800FCVE

- > VAM1000FCVE
- > VAM1500FCVE
- > VAM2000FCVE

## 2 Specifications

2-1 Technical Specifications				VAM150F C	VAM250F C	VAM350F C	VAM500F C	VAM650F C	VAM800F C	VAM1000 FC	VAM1500 FC	VAM2000 FC		
Power input - 50Hz	Heat exchange mode	Nom.	Ultra high	kW	0.132	0.161	0.071 (1)	0.147 (1)	0.188 (1)	0.320 (1)	0.360 (1)	0.617 (1)	0.685 (1)	
			High	kW	0.111	0.079	0.057 (1)	0.101 (1)	0.114 (1)	0.241 (1)	0.309 (1)	0.463 (1)	0.575 (1)	
			Low	kW	0.058	0.064	0.020 (1)	0.049 (1)	0.063 (1)	0.185 (1)	0.198 (1)	0.353 (1)	0.295 (1)	
	Bypass mode	Nom.	Ultra high	kW	0.132	0.161	0.071 (1)	0.147 (1)	0.188 (1)	0.320 (1)	0.360 (1)	0.617 (1)	0.685 (1)	
			High	kW	0.111	0.079	0.057 (1)	0.101 (1)	0.114 (1)	0.241 (1)	0.309 (1)	0.463 (1)	0.575 (1)	
			Low	kW	0.058	0.064	0.020 (1)	0.049 (1)	0.063 (1)	0.185 (1)	0.198 (1)	0.353 (1)	0.295 (1)	
Temperature exchange efficiency - 50Hz	Ultra high			%	77.0 (2) / 72.0 (3)	74.9 (2) / 69.5 (3)	78.0 (2) / 71.6 (4)	77.0 (2) / 70.2 (4)	77.0 (2) / 69.8 (4)	78.0 (2) / 70.2 (4)	78.0 (2) / 69.5 (4)	78.0 (2) / 70.2 (4)		
	High			%	78.3 (2) / 72.3 (3)	76.0 (2) / 70.0 (3)	79.3 (2) / 71.9 (4)	78.8 (2) / 70.7 (4)	79.1 (2) / 71.2 (4)	78.2 (2) / 68.8 (4)	78.6 (2) / 71.1 (4)	79.6 (2) / 70.3 (4)	79.6 (2) / 71.3 (4)	
	Low			%	82.8 (2) / 73.2 (3)	80.1 (2) / 72.0 (3)	84.1 (2) / 73.0 (4)	80.9 (2) / 71.3 (4)	81.1 (2) / 72.9 (4)	79.1 (2) / 69.6 (4)	80.2 (2) / 73.4 (4)	80.8 (2) / 71.0 (4)	80.6 (2) / 74.6 (4)	
Enthalpy exchange efficiency - 50Hz	Cooling	Ultra high		%	60.3 (2)		63.4 (2)		60.3 (2)		62.4 (2)		63.4 (2)	
		High		%	61.9 (2)	61.2 (2)	65.0 (2)	63.4 (2)	64.0 (2)	63.6 (2)	64.2 (2)	65.0 (2)	64.5 (2)	
		Low		%	67.3 (2)	64.5 (2)	70.7 (2)	66.9 (2)	67.3 (2)	64.6 (2)	66.3 (2)	66.2 (2)	67.8 (2)	
	Heating	Ultra high		%	66.6 (2)		67.6 (2)		64.5 (2)		65.5 (2)		67.6 (2)	
		High		%	67.9 (2)	67.4 (2)	68.9 (2)	67.6 (2)	67.7 (2)	68.8 (2)	69.4 (2)	69.7 (2)	69.5 (2)	
		Low		%	72.4 (2)	70.7 (2)	73.7 (2)	71.1 (2)	69.7 (2)	69.8 (2)	71.5 (2)	70.5 (2)	72.1 (2)	
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	Height	mm	285		301		364			726			
		Width	mm	776		828		1,000			1,510			
		Depth	mm	525		816		868		1,160	868	1,160		
Weight	Unit	kg	24.0		33.0		51.0	54.0	63.0	128	145			
Casing	Material			Galvanised steel plate										
Fan	Type			Sirocco fan										
	Air flow rate - 50Hz	Heat exchange mode	Ultra high	m³/h	150 (5)	250 (5)	350 (1)	500 (1)	650 (1)	800 (1)	1,000 (1)	1,500 (1)	2,000 (1)	
			High	m³/h	140 (5)	230 (5)	320 (1)	410 (1)	545 (1)	725 (1)	950 (1)	1,350 (1)	1,880 (1)	
			Low	m³/h	105 (5)	155 (5)	210 (1)	310 (1)	450 (1)	665 (1)	820 (1)	1,230 (1)	1,500 (1)	
		Bypass mode	Ultra high	m³/h	150 (5)	250 (5)	350 (1)	500 (1)	650 (1)	800 (1)	1,000 (1)	1,500 (1)	2,000 (1)	
			High	m³/h	140 (5)	230 (5)	320 (1)	410 (1)	545 (1)	725 (1)	950 (1)	1,350 (1)	1,880 (1)	
			Low	m³/h	105 (5)	155 (5)	210 (1)	310 (1)	450 (1)	665 (1)	820 (1)	1,230 (1)	1,500 (1)	
	External static pressure - 50Hz	Ultra high		Pa	90 (5)	70 (5)	103 (1)	83 (1)	100 (1)	109 (1)	147 (1)	116 (1)	132 (1)	
		High		Pa	87 (5)	63 (5)	93 (1)	57 (1)	73 (1)	94 (1)	135 (1)	97 (1)	118 (1)	
Low		Pa	40 (5)	25 (5)	51 (1)	35 (1)	49 (1)	78 (1)	100 (1)	80 (1)	77 (1)			
Fan motor	Quantity			2						4				
	Output	50 Hz	W	30		80		106	210					
Air filter	Type			Multidirectional fibrous fleeces										
Sound pressure level - 50Hz	Heat exchange mode	Ultra high		dBA	27.0	28.0	32.0	33.0	34.5	36.0		39.5	40.0	
		High		dBA	26.0		31.5		33.0	34.5	35.0	38.0		
		Low		dBA	20.5	21.0	23.5	24.5	27.0	31.0		34.0	35.0	
	Bypass mode	Ultra high		dBA	27.0	28.0	32.0	33.5	34.5	36.0		40.5	40.0	
		High		dBA	26.5	27.0	31.0	32.5	34.0	34.5	35.5	38.0		
		Low		dBA	20.5	21.0	24.5	25.5	27.0	31.0		33.5	35.0	
Operation range	Min.			°CDB		-15								
	Max.			°CDB		50								
	Relative humidity			%		80% or less								
	On coil temperature	Cooling	Max.	°CDB		-								
Heating		Min.	°CDB		-									
Connection duct diameter				mm	100	150	200		250		350			
Insulation material				Self-extinguishable urethane foam										

## 2 Specifications

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2-1 Technical Specifications				VAM150F C	VAM250F C	VAM350F C	VAM500F C	VAM650F C	VAM800F C	VAM1000 FC	VAM1500 FC	VAM2000 FC
General	Supplier/ Manufacturer details	Name or trademark	Daikin Europe N.V.									
	Product description	Model identifier	VAM150 FCVE	VAM250 FCVE	VAM350 FCVE	VAM500 FCVE	VAM650 FCVE	VAM800 FCVE	VAM1000 FCVE	VAM1500 FCVE	VAM2000 FCVE	
Specific energy consumption (SEC)	Cold climate	kWh/(m <sup>2</sup> .a)	-56.0 (6)	-60.5 (6)	-							
	Average climate	kWh/(m <sup>2</sup> .a)	-22.1 (6)	-27.0 (6)	-							
	Warm climate	kWh/(m <sup>2</sup> .a)	-0.100 (6)	-5.30 (6)	-							
SEC class			D / (6)	B / (6)	-							
Type of product			Bidirectional RVU / (7)			Bidirectional NRVU / (7)						
Type of drive			Multi-speed drive									
Heat recovery system			recuperative									
Thermal efficiency		%	73.6 (3)	72.2 (3)	71.6 (4)	70.2 (4)	69.8 (4)	69.0 (4)	70.2 (4)	69.5 (4)	70.2 (4)	
Maximum flow rate at 100 Pa ESP	Flow rate	m <sup>3</sup> /h	130 (5)	207 (5)	-							
	Electric power input	W	129	160	-							
Sound power level (Lwa)		dB	40	43	48	50	51	53		55	57	
Nominal flow rate		m <sup>3</sup> /s	-		0.097	0.139	0.181	0.222	0.278	0.417	0.556	
Reference flow rate		m <sup>3</sup> /s	0.025	0.040	-							
Reference pressure difference		Pa	50.0		-							
Effective electric power input		kW	-		0.055	0.121	0.140	0.241	0.279	0.465	0.532	
Specific power input		W/(m <sup>3</sup> /h)	0.626 (8)	0.445 (8)	-							
Internal specific fan power		W/(m <sup>3</sup> /s)	-		350	644	594	845	818	852	811	
Ventilation control	Type	Clock control		-								
	Factor	0.950 (6)		-								
Maximum external leakage		%	7.42	4.66	4.13	2.89	3.81	3.09	6.59	3.09	6.59	
Maximum internal leakage		%	4.50		8.10	8.20	7.70		6.50	7.70	6.50	
Filter energy performance		kWh	-		279 (7)							
Filter service warning			Displayed on controller / (5)									
Instructions for pre-/disassembly			<a href="http://www.daikineurope.com/energylabel">www.daikineurope.com/energylabel</a>									
Annual electricity consumption		kWh/a	18.9 (6)	13.6 (6)	-							
Annual heating saved	Cold climate	kWh/a	41.0 (6)	40.6 (6)	-							
	Average climate	kWh/a	80.2 (6)	79.4 (6)	-							
	Warm climate	kWh/a	18.5 (6)	18.4 (6)	-							
Face velocity		m/s	-		0.648	0.926	1.20	1.48	1.38	1.39	1.38	
External pressure		Pa	-		59.7	56.4	52.6	56.8	84.8	60.0	67.7	
Internal pressure drop		Pa	-		94.9	143	151	210	249	189	160	
Fan efficiency		%	-		32.9		47.2		37.1			

2-2 Electrical Specifications				VAM150F C	VAM250F C	VAM350F C	VAM500F C	VAM650F C	VAM800F C	VAM1000 FC	VAM1500 FC	VAM2000 FC	
Power supply	Name		VE										
	Phase		1~										
	Frequency	Hz	50/60										
	Voltage		220-240/220										
Voltage range	Min.	%	-10										
	Max.	%	10										
Current	Minimum circuit amps (MCA)		0.900			1.30	1.60	2.50	3.00	5.00			
	Maximum fuse amps (MFA)		15.0			16.0							
	Fan motor rated output		0.03x2		0.08x2		0.106x2		0.210x2		0.210x4		
	Full load amps (FLA)	Fan motor	A	0.400			0.600	0.700	1.10	1.30	2.20		
		Fan motor 2	A	0.400			0.600	0.700	1.10	1.30	2.20		
Fan motor 3		A	-										
Fan motor 4		A	-										

# 8 Sound data

## 8 - 2 Sound Pressure Spectrum

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