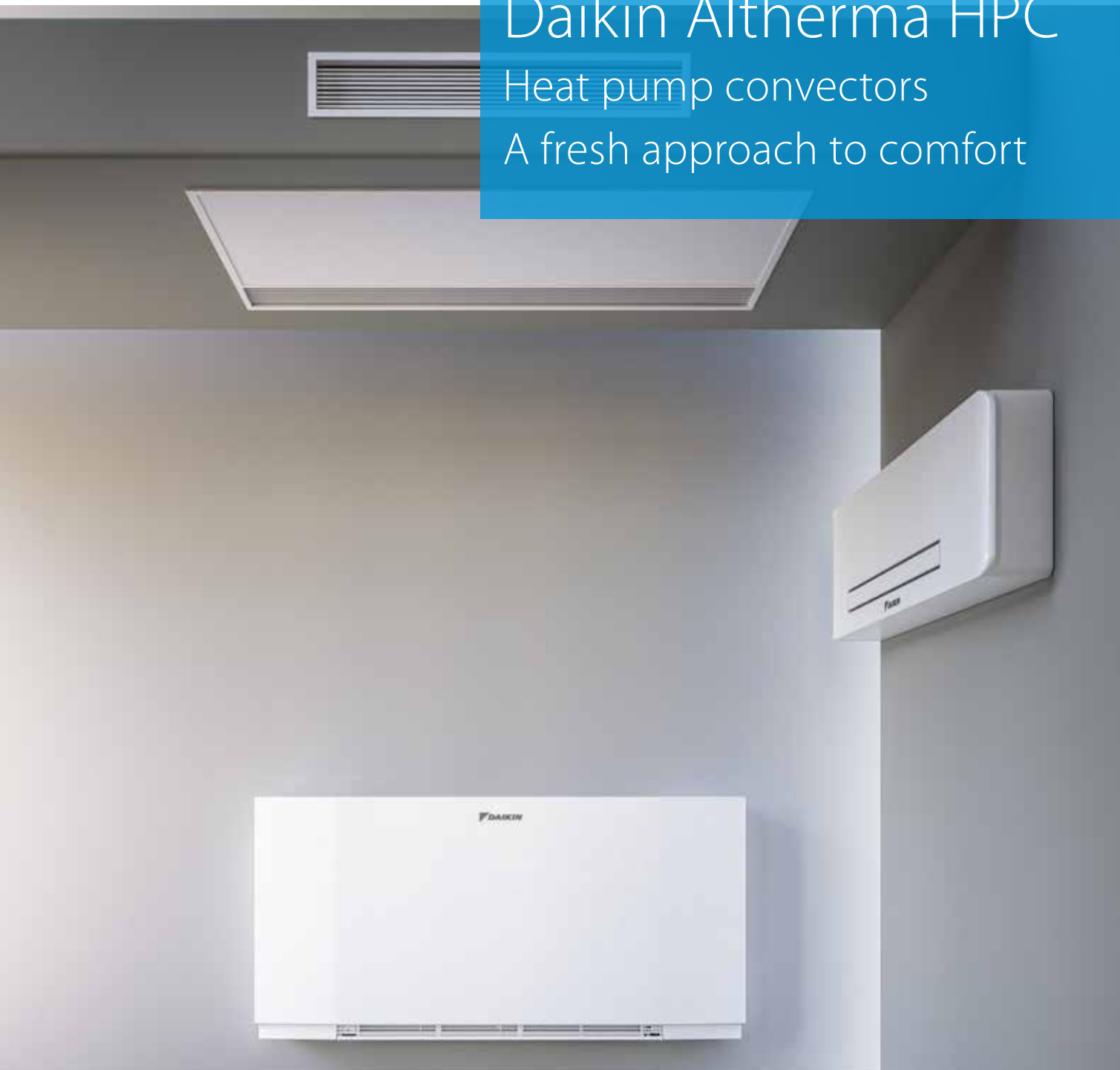


Daikin Altherma HPC

Heat pump convectors
A fresh approach to comfort



FWXV/T/M-ATV3 series

Daikin Altherma HPC

Floor standing model



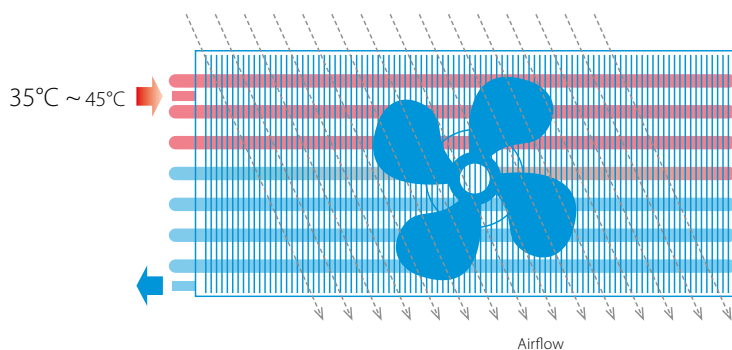
By providing cooling and heating, Daikin Altherma HPC is combinable with underfloor piping and can replace outdated radiators. The unit is available in three models (floor standing, wall mounted and concealed) and fits in any bedrooms or living rooms thanks to its silent operation.



What is a heat pump convector

The way a heat pump convector works is similar to a radiator, as both use convection to heat a room. A radiator creates convection by running water through its pipes. With a heat pump convector, a radiator's convection process is faster because there is a small fan behind it speeding up the heating cycle.

A heat pump convector creates the same room temperature as a traditional radiator, but with lower water temperatures in the radiator, and in the long run, contribute to direct energy savings for users.

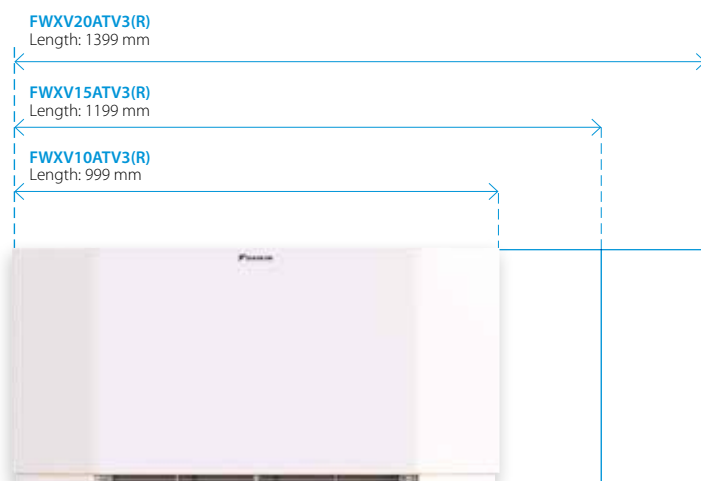


- › Optimized for new build houses
- › Can be selected at low water temperature (35°C) which makes it ideal for heat pump applications.



Slim design

The floor standing Daikin Altherma HPC measures 135 mm (depth), this heat pump can fit in any house or apartment.



Fast and high capacity

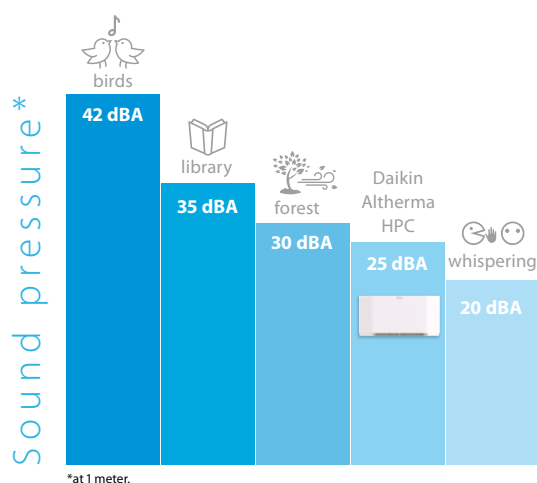
The Daikin Altherma HPC combines the advantages of residential underfloor heating and radiators. It delivers high capacity heating or cooling faster and can be selected at ultra-low temperatures (35/30°C regime).





Discreet

As the unit reaches its set point, a continuous modulating fan gradually reduces its speed and creates less noise. The unit's sound pressure measures 25dB(A) at 1m when the fan is on a low-speed setting.



DC Inverter

Daikin Altherma HPC uses the latest technologies to consume less electricity down to 3W of standby power input.



Controls

Daikin offers a wide variety of controllers that are functional and have a great design.

EKRTCTRL1



- > Built-in controller
- > Fully modulating
- > Multicolor display

EKRTCTRL2



- > Built-in controller
- > 4 speed selection

EKWHCTRL1



- > Wall controller
- > Fully modulating
- > In combination with EKWHCTRL0

EKPCBO

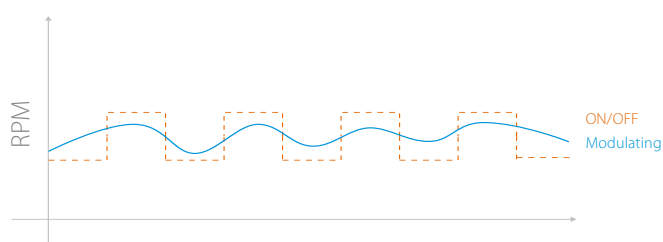


- > Built-in controller
- > ON/OFF
- > In combination with external thermostats



Modulated airflow

When there is less heating demand, the unit modulates its airflow to slow down the fan rate, and in the process, lowers the operational sound. A standard ON/OFF fan running simultaneously at full speed can increase sound pressure.



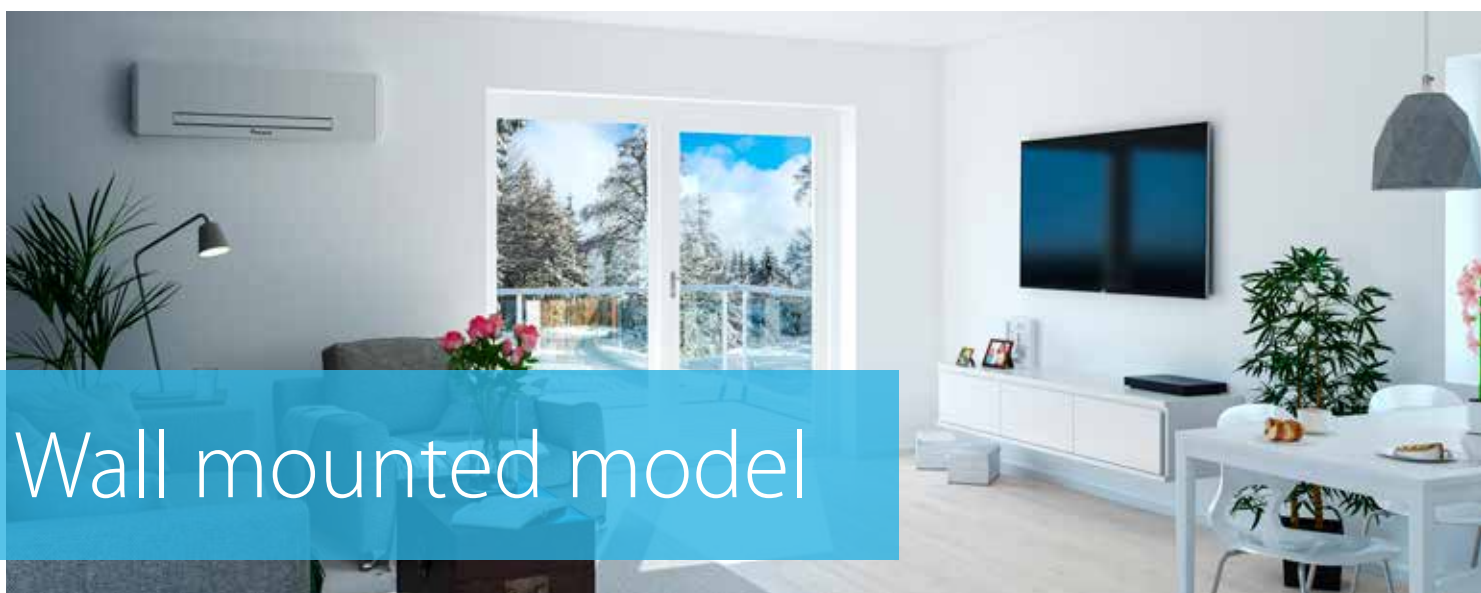
* Only applicable for EKRTCTRL1, EKWHCTRL1



Perfect combination

This heat pump convector fits perfectly within the Daikin Altherma 3 range.



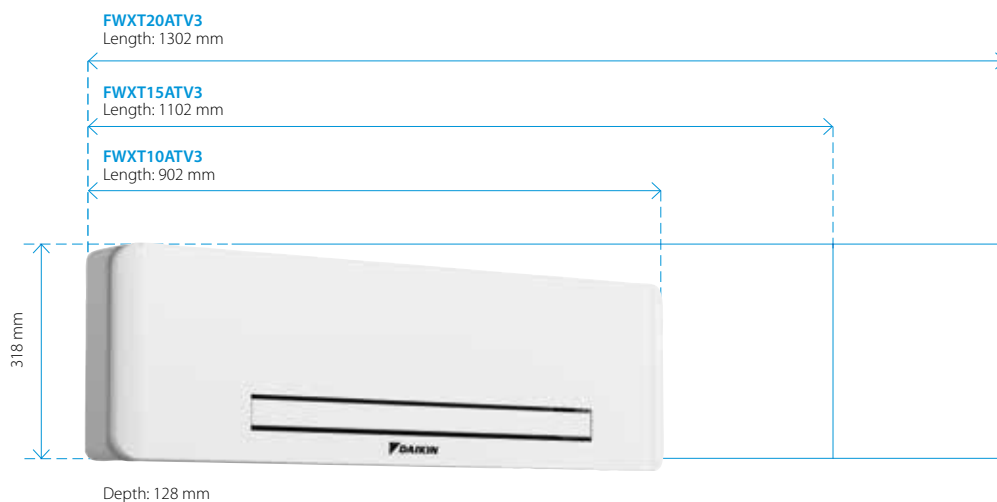


Wall mounted model



Slim design

Daikin Altherma HPC is a compact unit made of a design metal casing including all valves. Its wall hung application saves space on the floor for furnitures and decoration.



Controls

Fully modulating controller allowing remote control of the unit.

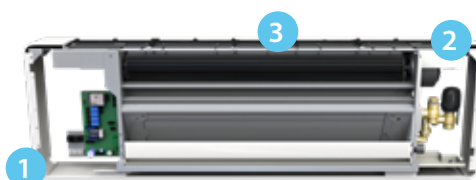
EKWHCTRL1



- › Wall controller
- › Fully modulating



Compactness



1 SLIM DEPTH

Depth of 129 mm is an outstanding technical achievement that ensures the best fitting into any residential dwelling.

2 MORE SPACE FOR VALVES

A special attention to the easiness of installation: the space for hydraulic valves is wide and easy accessible.

3 MODULATED AIRFLOW

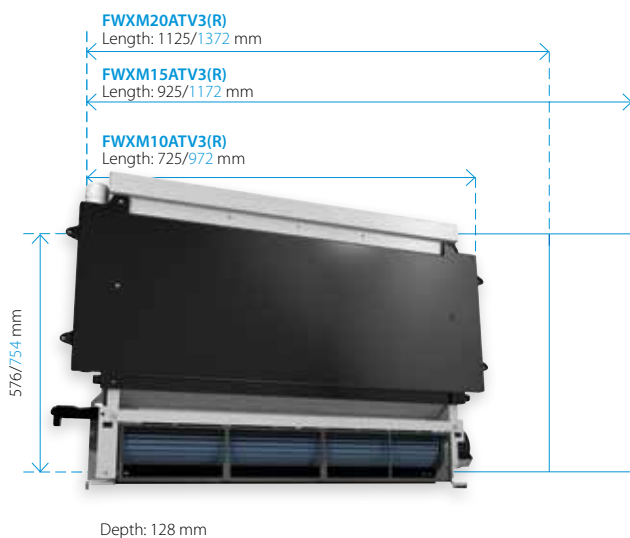
When there is less heating demand, the unit modulates its airflow to slow down the fan rate, and in the process, lowers the operational sound. A standard ON/OFF fan running simultaneously at full speed can increase sound pressure.

Concealed model



Slim design

Blue dimensions are for the front cover.



Controls

EKWHCTRL1



- > Wall controller
- > Fully modulating
- > In combination with EKWHCTRL0



Flexible installation

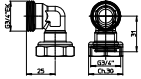
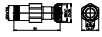
Daikin Altherma HPC can be installed in 4 different ways, allowing you to install it in almost all conditions. The unit can be positioned horizontally or vertically. For horizontal, in ceiling installation, 3 different possibilities are offered:

- > Horizontal cover panel and vertical grill for air outlet
- > Horizontal intake grill and vertical grill for air outlet
- > Horizontal in and out grills for air outlet



Indoor unit				FWXV/M10ATV3	FWXV/M15ATV3	FWXV/M20ATV3
Cooling capacity at 7/12°C	Min.		kW	0,66	1,30	1,82
	Med.		kW	1,36	2,16	2,52
	Max.		kW	1,77	2,89	3,20
Sensible cooling capacity at 7/12°C	Min.		kW	0,39	0,99	1,22
	Med.		kW	0,98	1,53	1,55
	Max.		kW	1,33	2,10	1,78
Heating capacity at 35/30°C	Min.		kW	0,41	0,45	0,93
	Med.		kW	0,82	1,29	1,66
	Max.		kW	1,14	1,73	2,15
Heating capacity at 45/40°C	Min.		kW	0,95	1,26	1,90
	Med.		kW	1,63	2,33	3,05
	Max.		kW	2,18	3,11	3,88
Power input	Min.		kW	0,003	0,004	0,005
	Med.		kW	0,018	0,020	0,027
	Max.		kW	0,018	0,020	0,027
Fan speed	Min.		m³/h	118	180	246
	Med.		m³/h	210	318	410
	Max.		m³/h	294	438	566
Casing	Colour			RAL 9003		
	Material			Metal sheet		
Dimensions	Unit	Height	mm	601		
		Width	mm	999	1199	1399
		Depth	mm	135	135	135
	Packed unit	Height	mm	690		
		Width	mm	1230	1430	1630
		Depth	mm	210		
Weight	Unit		kg	20/12	23/15	2618
	Packed unit		kg	21/13	24/16	2719
Packing	Material			Carton		
	Weight		kg	1		
Heat exchanger	Quantity			1	1	1
	Internal coil volume		l	0,8	1,13	1,46
		Max Operating pressure		bar	10	
Water circuit	Piping connections diameter		inch	3/4" male		
	Piping material			EUROKONUS		
	Heating - Water pressure drop at 35/30°C	Min.	kPa	0,3	2,0	1,2
		Med.	kPa	1,3	7,5	4,0
		Max.	kPa	2,4	12,3	8,0
	Heating - Water pressure drop at 45/40°C	Min.	kPa	1,3	8,6	3,8
		Med.	kPa	4,2	3,3	11,2
		Max.	kPa	7,2	11,5	21,3
	Cooling - Water pressure drop at 7/12°C	Min.	kPa	1,2	4,3	2,1
		Med.	kPa	2,8	19,3	13,1
		Max.	kPa	2,9	27,0	24,0
	Heating - Water flow rate at 35/30°C	Min.	kg/h	69,9	73,6	160,2
		Med.	kg/h	141,4	221,1	285,3
		Max.	kg/h	195,2	297,2	369,9
	Heating - Water flow rate at 45/40°C	Min.	kg/h	163,5	212,5	327,0
		Med.	kg/h	280,3	401,1	524,6
		Max.	kg/h	374,1	534,5	667,5
	Cooling - Water flow rate at 7/12°C	Min.	kg/h	113,5	223,7	313,0
		Med.	kg/h	234,1	371,7	433,6
		Max.	kg/h	303,6	496,6	550,6
	Pressure	Heating/Max.		bar	10	10
Sound power level	Super silent		dBA	29	31	32
	Min.		dBA	34	35	35
	Max.		dBA	51	53	55
Sound pressure level	Super silent		dBA	20	22	23
	Min.		dBA	25	26	26
	Max.		dBA	42	44	45
Operation range	Heating	Water side	Min.	°C	30	
			Max.	°C.	85	
	Cooling	Water side	Min.	°C.	5	
			Max.	°C	20	
	Indoor installation	Ambient	Min.	°CDB	0	
			Max.	°CDB	45	
Control systems	Infrared remote control			no		
	On board control			yes		
	Wired remote control			yes		
Installation place				Indoor		
Electrical specifications				FWXV10ATV3	FWXV15ATV3	FWXV20ATV3
Power supply	Phase			1		
	Frequency		Hz	50		
IP class	IP		V	XO		
Electrical power consumption	Max.		W	0,019	0,02	0,029
	Standby		W	0,003	0,004	0,005
Current	Zmax	Text	Ω	2556	2300	1643
	Maximum running current		A	0,16	0,18	0,26
Current - 50 Hz	Nominal running current		A	0,09	0,1	0,14

Indoor unit				FWXT10ATV3		FWXT15ATV3		FWXT20ATV3		
Cooling capacity at 7/12°C	Min.			kW	0,48	0,58		0,91		
	Med.			kW	0,80	1,03		1,75		
	Max.			kW	1,07	1,65		2,31		
Sensible cooling capacity at 7/12°C	Min.			kW	0,39	0,49		0,76		
	Med.			kW	0,69	0,91		1,53		
	Max.			kW	0,95	1,49		1,94		
Heating capacity at 35/30°C	Min.			kW	0,29	0,23		0,47		
	Med.			kW	0,48	0,69		1,08		
	Max.			kW	0,66	1,00		1,44		
Heating capacity at 45/40°C	Min.			kW	0,53	0,66		0,96		
	Med.			kW	0,94	1,26		0,198		
	Max.			kW	1,27	1,80		2,60		
Power input	Min.			kW	0	0,01		0,01		
	Max.			kW	0,01	0,01		0,02		
Fan speed	Min.			m³/h	84	124		138		
	Med.			m³/h	155	229		283		
	Max.			m³/h	228	331		440		
Casing	Colour			RAL 9003 (FWXV-ATV3)						
	Material			Metal sheet (FWXV-ATV3) / No casing (FWXM-ATV3)						
Dimensions	Unit	Height	mm	335						
		Width	mm	902	1100		1300			
		Depth	mm	128						
	Packed unit	Height	mm	490						
		Width	mm	1030	1230		1430			
		Depth	mm	210						
Weight	Unit		kg	14	16		19			
	Packed unit		kg	15	17		20			
Packing	Material			Carton						
	Weight			kg	1					
Heat exchanger	Quantity			1						
	Internal coil volume			l	0,5	0,7		0,9		
	Max Operating pressure			bar	10					
Water circuit	Piping connections diameter			inch	3/4" male					
	Piping material			EUROKONUS						
	Heating - Water pressure drop at 35/30°C	Min.	kPa	0,2	1,9		0,3			
		Med.	kPa	0,9	2,9		1,4			
		Max.	kPa	1,6	3,3		2,3			
	Heating - Water pressure drop at 45/40°C	Min.	kPa	1,1	2,8		1,1			
		Med.	kPa	3,1	3,5		4,1			
		Max.	kPa	5,4	4,0		6,6			
	Cooling - Water pressure drop at 7/12°C	Min.	kPa	1,1	3,9		1,3			
		Med.	kPa	3,0	4,8		4,2			
		Max.	kPa	5,2	5,7		6,9			
	Heating - Water flow rate at 35/30°C	Min.	kg/h	39,3	39,0		80,8			
		Med.	kg/h	81,8	119,4		185,4			
		Max.	kg/h	114,0	172,4		247,8			
	Heating - Water flow rate at 45/40°C	Min.	kg/h	91,9	112,6		164,8			
		Med.	kg/h	162,0	216,6		341,0			
		Max.	kg/h	218,4	310,0		447,2			
	Cooling - Water flow rate at 7/12°C	Min.	kg/h	82,1	98,9		156,5			
		Med.	kg/h	138,1	177,4		300,6			
		Max.	kg/h	184,4	283,0		396,8			
		Pressure	Heating/Max.	bar	10	10		10		
Sound power level	Min.			dBA	34	34		35		
	Max.			dBA	49	51		52		
Sound pressure level	Min.			dBA	25	25		26		
	Max.			dBA	40	42		43		
Operation range	Heating	Water side	Min.	°C	30					
			Max.	°C.	85					
	Cooling	Water side	Min.	°C.	5					
			Max.	°C	18					
	Indoor installation	Ambient	Min.	°CDB	0					
			Max.	°CDB	45					
Installation place										
Electrical specifications				FWXT10ATV3		FWXT15ATV3		FWXT20ATV3		
Power supply	Phase			1						
	Frequency			Hz	50					
	Voltage			V	230					
Electrical power consumption	Max.			W	18	20		27		
	Standby			W	5	5		6		
Current	Maximum running current	Heating	A	0,2						
		Cooling	A	0,2						
Current - 50 Hz	Nominal running current			A	0,1					

							
			FWXV10ATV3(R)	FWXM10ATV3(R)	FWXM15ATV3(R)	FWXM20ATV3(R)	FWXT10ATV3
			FWXV15ATV3(R)				FWXT15ATV3
			FWXV20ATV3(R)				FWXT20ATV3
			DC Inverter fan coil unit with sheet metal cabinet (white colour)	Built in DC Inverter fancoil for horizontal and vertical			High Wall fancoil
Material name	Description	Picture					
EKRTCTRL1	On board electronic control SMART TOUCH with PID full modulating fan and thermostat		Opt				
EKRTCTRL2	On board electronic control SMART TOUCH 4 speeds with thermostat		Opt				
EKPCBO	On board 4 speeds control switch to be combine with Daikin combinable thermostats		Opt				
EKWHCTRL0	On board controller for EKWHCTRL1		Opt	Opt	Opt	Opt	
EKWHCTRL1	SMART LCD wall controller with temperature probe, white casing		Opt	Opt	Opt	Opt	Opt
EKFA	Aestetical feet		Opt				
EK2VK0	Motorized 2-way valve (FWXV/M)		Opt	Opt	Opt	Opt	
EKT2VK0	Motorized 2-way valve (FWXT)						Opt
EK3VK1	Motorized 3-way valve (FWXV/M)		Opt	Opt	Opt	Opt	
EKT3VK1	Motorized 3-way valve (FWXT)						Opt
EKEUR90	L-bow 90°C		Opt	Opt	Opt	Opt	
EKDIST	Extension piece		Opt	Opt	Opt	Opt	
EKM10CS	Metal casing			Opt			
EKM15CS					Opt		
EKM20CS						Opt	
EKM10CH				Opt			
EKM15CH	Front cover for ceiling installation				Opt		
EKM20CH					Opt		
EKM10CV	Front cover for wall installation			Opt			
EKM15CV					Opt		
EKM20CV						Opt	
EKM10DH				Opt			
EKM15DH	Air intake fitting				Opt		
EKM20DH						Opt	
EKM10D90	90°C exhaust bend (Horizontal)			Opt			
EKM15D90					Opt		
EKM20D90						Opt	
EKM10COH				Opt			
EKM15COH	Condensate collector tray for horizontal installation				Opt		
EKM20COH						Opt	
EKM10DT	Telescopic air flow duct			Opt			
EKM15DT					Opt		
EKM20DT						Opt	
EKM10IS				Opt			
EKM15IS	Aluminum air intake grill with straight airflow				Opt		
EKM20IS						Opt	
EKM10SV				Opt			
EKM15SV	Straight airflow vent				Opt		
EKM20SV						Opt	
EKM10IC				Opt			
EKM15IC	Aluminum air intake grill with curved airflow				Opt		
EKM20IC						Opt	
EKM10CA				Opt			
EKM15CA	Aluminum air outlet grill with curved airflow				Opt		
EKM20CA						Opt	

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