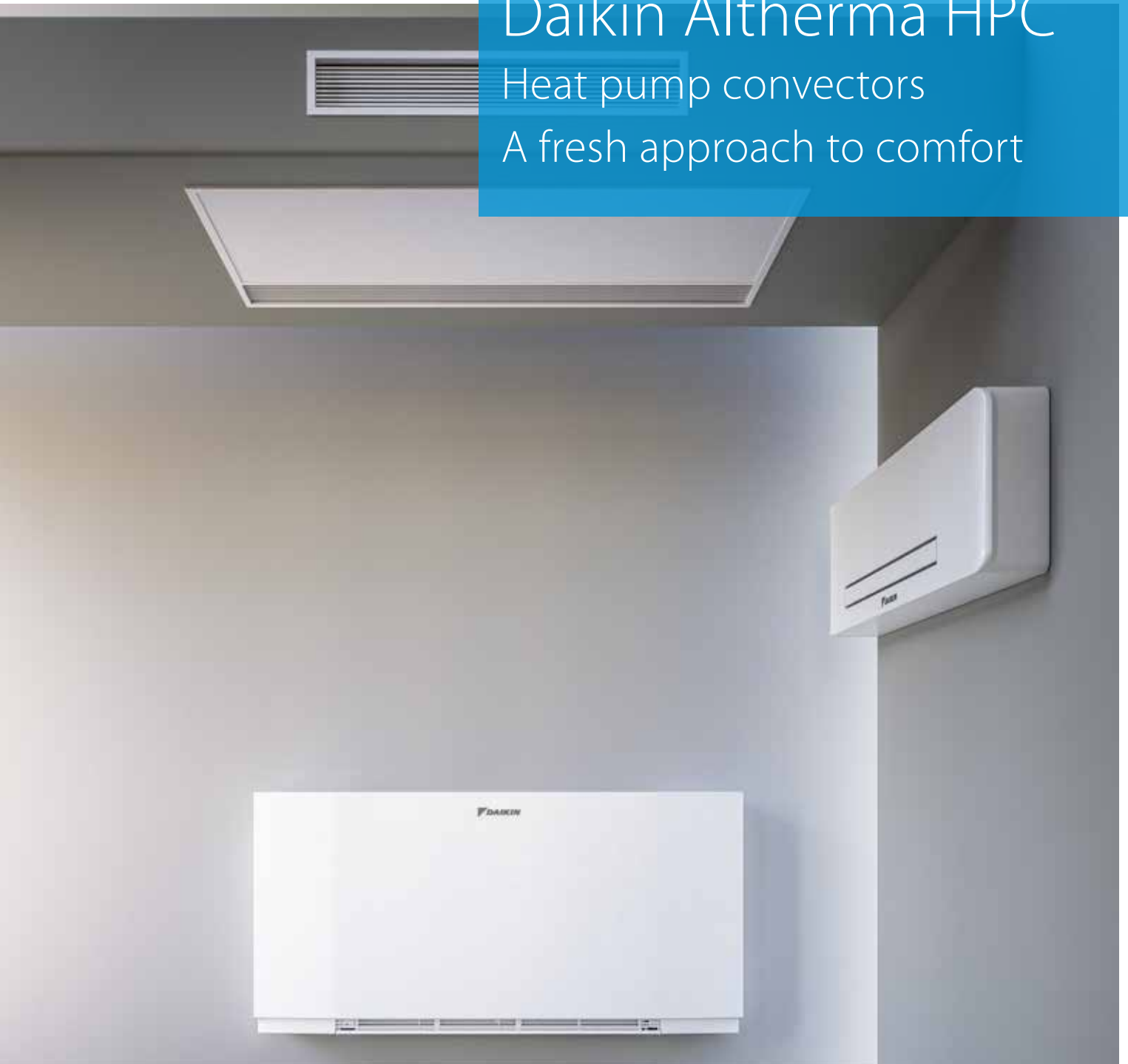




Daikin Altherma HPC

Heat pump convectors
A fresh approach to comfort



FWXV/T/M-ATV3 series

Daikin Altherma HPC Floor standing model

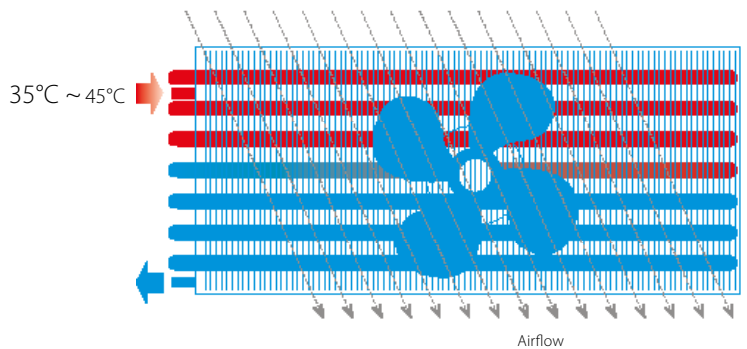


By providing cooling and heating, Daikin Altherma HPC is combinable with underfloor piping and can replace outdated radiators. The unit is available in three models (floor standing, wall mounted and concealed) and fits in any bedrooms or living rooms thanks to its silent operation.

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.

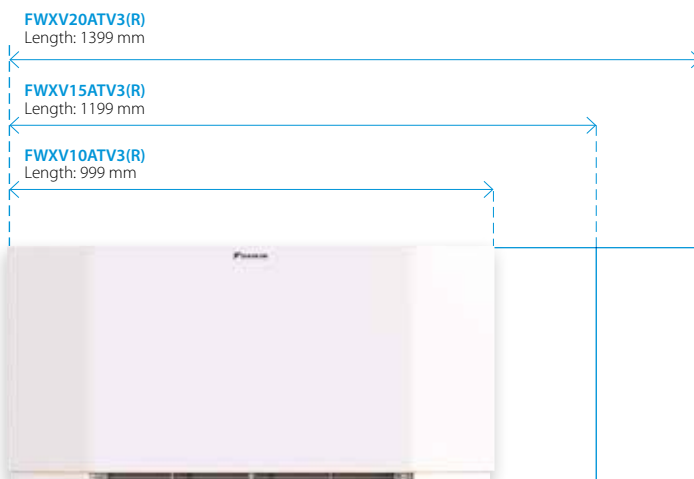
A heat pump convector creates the same room temperature as a traditional radiator, but with lower water temperatures in the radiator, and in the long run, contribute to direct energy savings for users.



- > 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 convector 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.



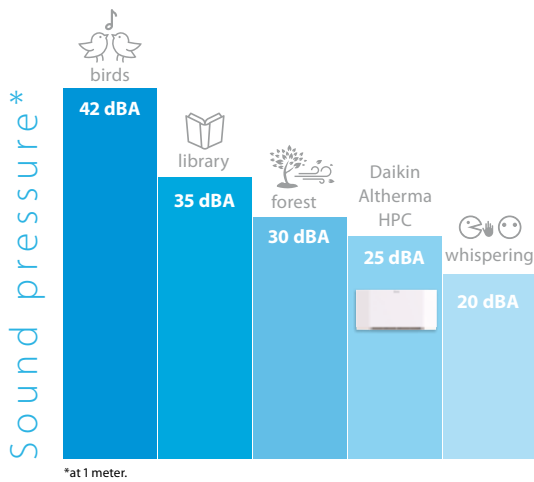
DC Inverter

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

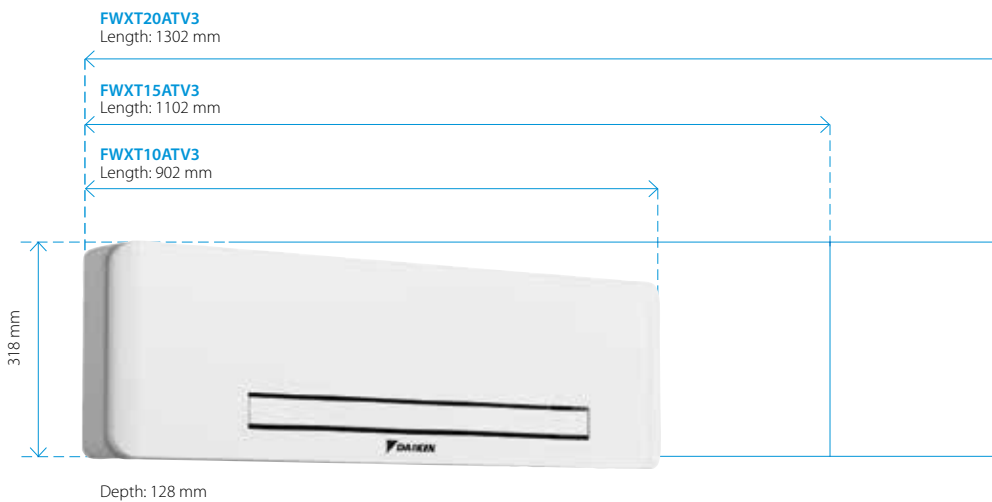
This heat pump convector fits perfectly within the Daikin Altherma 3 range.



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

- Choice of:
- Fully modulating controller allowing remote control of the unit.
 - Infrared remote controller and on-board touch panel.

EKWHCTRL1



- > Wall controller
- > Fully modulating

Infrared remote controller



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.

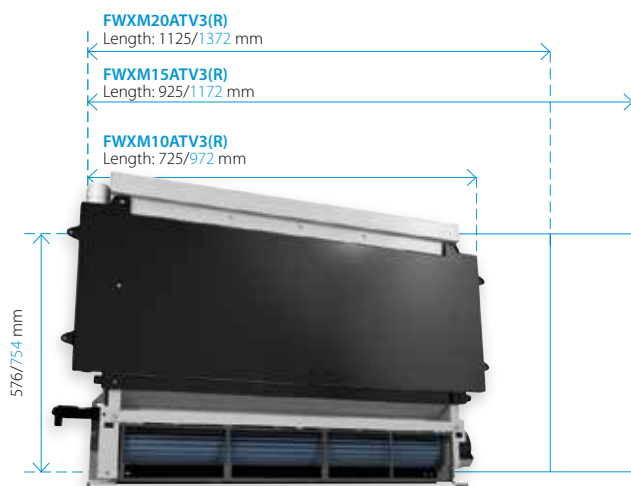
- 3 MODULATED AIRFLOW**
When there is less heating demand, the unit modulates its airflow to slow down the fan rate, and in the process, lowers the operational sound. A standard ON/OFF fan running simultaneously at full speed can increase sound pressure.

Concealed model



Slim design

Blue dimensions are for the front cover.



Depth: 126 mm



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



Controls

EKWHCTRL1



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



Indoor unit				FWXV10ATV3(R)	FWXV15ATV3(R)	FWXV20ATV3(R)	
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	1,24	1,90	
	Med.		kW	1,63	2,33	3,05	
	Max.		kW	2,18	3,11	3,88	
Power input	Min.		kW	0,004	0,005	0,010	
	Med.		kW	0,011	0,012	0,016	
	Max.		kW	0,020	0,020	0,030	
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	23	26	
	Packed unit		kg	21	24	27	
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	10	
		Super silent	dB(A)	29	31	32	
		Min.	dB(A)	34	35	35	
Sound power level	Max.		dB(A)	55	57	58	
	Super silent		dB(A)	20	22	23	
	Min.		dB(A)	25	26	26	
Sound pressure level	Max.		dB(A)	42	44	45	
	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			
Control systems	Infrared remote control			no			
	On board control			yes			
Electrical specifications				FWXV10ATV3(R)	FWXV15ATV3(R)	FWXV20ATV3(R)	
Power supply	Phase			1			
	Frequency		Hz	50			
	Voltage		V	230			
Electrical power consumption	Max.		W	19	20	29	
	Standby		W	3	4	5	
Current	Maximum running current		A	0,16	0,16	0,26	

Indoor unit				FWXM10ATV3(R)	FWXM15ATV3(R)	FWXM20ATV3(R)	
Cooling capacity at 7/12 °C	Min.		kW	0,75	1,15	1,32	
	Med.		kW	1,36	2,08	2,39	
	Max.		kW	2,12	2,81	3,30	
Sensible cooling capacity at 7/12 °C	Min.		kW	0,59	0,83	1,02	
	Med.		kW	1,07	1,51	1,84	
	Max.		kW	1,72	2,11	2,71	
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	0,82	1,20	1,47	
	Med.		kW	1,53	2,16	2,59	
	Max.		kW	2,21	3,02	3,81	
Power input	Min.		kW	0,004	0,005	0,006	
	Med.		kW	0,008	0,011	0,011	
	Max.		kW	0,019	0,020	0,029	
Fan speed	Min.		m³/h	118	180	246	
	Med.		m³/h	210	318	410	
	Max.		m³/h	294	438	566	
Casing	Material			No casing			
Dimensions	Unit	Height	mm	576			
		Width	mm	725	925	1125	
		Depth	mm	126	126	126	
	Packed unit	Height	mm	690			
		Width	mm	830	1030	1230	
		Depth	mm	210			
Weight	Unit		kg	12	15	18	
	Packed unit		kg	13	16	19	
Packing	Material			Carton			
	Weight			kg			
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			
	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	
Sound power level	Super silent	Pressure		bar	10	10	10
		Heating/Max.		dB(A)	29	31	32
		Min.	dB(A)	35	35	36	
Sound pressure level	Super silent	Max.		dB(A)	53	54	55
		Min.		dB(A)	20	22	23
		Max.		dB(A)	25	26	26
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		
Control systems	Infrared remote control			no			
	On board control			no			
Electrical specifications				FWXM10ATV3(R)	FWXM15ATV3(R)	FWXM20ATV3(R)	
Power supply	Phase			1			
	Frequency			Hz			
	Voltage			V			
Electrical power consumption	Max.			W	19	20	29
	Standby			W	3	4	5
Current	Maximum running current			A	0,16	0,16	0,26

Indoor unit				FWXT10ATV3(C)	FWXT15ATV3(C)	FWXT20ATV3(C)	
Cooling capacity at 7/12 °C	Min.		kW	0,53	0,65	0,74	
	Med.		kW	0,98	1,20	1,35	
	Max.		kW	1,21	1,62	2,12	
Sensible cooling capacity at 7/12 °C	Min.		kW	0,13	0,15	0,36	
	Med.		kW	0,40	0,56	0,70	
	Max.		kW	1,01	1,44	1,99	
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	0,61	0,85	1,08	
	Med.		kW	1,12	1,51	1,95	
	Max.		kW	1,51	2,03	2,62	
Power input	Min.		kW	0,004	0,005	0,006	
	Max.		kW	0,019	0,020	0,029	
Fan speed	Min.		m³/h	84	124	138	
	Med.		m³/h	155	229	283	
	Max.		m³/h	228	331	440	
Casing	Colour			RAL 9003			
	Material			Metal sheet			
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	0,54	0,74	0,93	
		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.		dB(A)	35	36	36	
	Max.		dB(A)	53	54	55	
Sound pressure level	Min.		dB(A)	25	25	26	
	Max.		dB(A)	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		
Electrical specifications				FWXT10ATV3(C)	FWXT15ATV3(C)	FWXT20ATV3(C)	
Power supply	Phase			1			
	Frequency		Hz	50			
	Voltage		V	230			
Electrical power consumption	Max.		W	17,6	19,8	26,5	
	Standby		W	5	5	5,8	
Current	Maximum running current		A	0,16			

FWXV10ATV3(R) FWXV15ATV3(R) FWXV20ATV3(R)	FWXM10ATV3(R)	FWXM15ATV3(R) FWXM20ATV3(R)
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						
EKRCTRL1	On board electronic control SMART TOUCH with PID full modulating fan and thermostat		Opt					
EKRCTRL2	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		
EKM10COH	Condensate collector tray for horizontal installation		FWXV10ATV3(R)					
EKM15COH			FWXV15ATV3(R)					
EKM20COH			FWXV20ATV3(R)					
EKM10CS	Metal casing			Opt				
EKM15CS					Opt			
EKM20CS							Opt	
EKM10CH	Front cover for ceiling installation				Opt			
EKM15CH						Opt		
EKM20CH								Opt
EKM10CV	Front cover for wall installation					Opt		
EKM15CV							Opt	
EKM20CV								Opt
EKM10DH	Air intake fitting					Opt		
EKM15DH							Opt	
EKM20DH								Opt
EKM10D90	90 °C exhaust bend (Horizontal)					Opt		
EKM15D90							Opt	
EKM20D90								Opt
EKM10DT	Telescopic air flow duct					Opt		
EKM15DT							Opt	
EKM20DT								Opt
EKM10IS	Aluminum air intake grill with straight airflow					Opt		
EKM15IS							Opt	
EKM20IS								Opt
EKM10SV	Straight airflow vent					Opt		
EKM15SV							Opt	
EKM20SV								Opt
EKM10IC	Aluminum air intake grill with curved airflow					Opt		
EKM15IC							Opt	
EKM20IC								Opt
EKM10CA	Aluminum air outlet grill with curved airflow					Opt		
EKM15CA							Opt	
EKM20CA							Opt	



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