



Daikin Altherma HPC
Heat pump convectors
A fresh approach to comfort



FWXV/T/M-ATV3 series

Daikin Altherma HPC Floor standing model

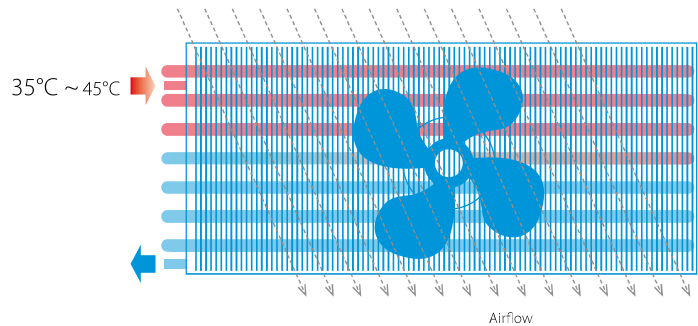


By providing cooling and heating, Daikin Altherma HPC is combinable with underfloor piping and can replace outdated radiators. The unit is available in three models (floor standing, wall mounted and concealed) and fits in any bedrooms or living rooms thanks to its silent operation.

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.

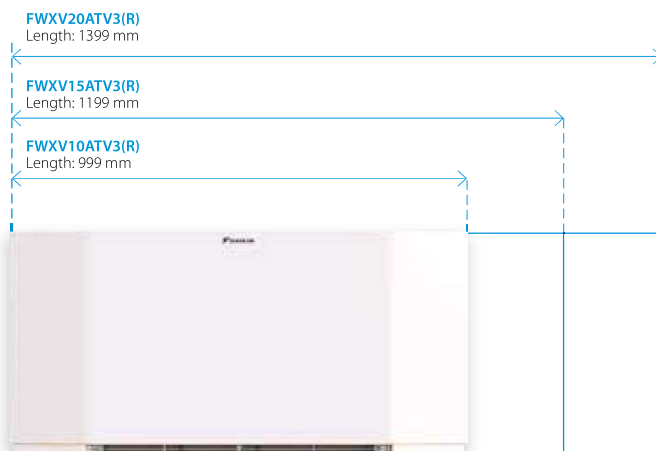
A heat pump convector creates the same room temperature as a traditional radiator, but with lower water temperatures in the radiator, and in the long run, contribute to direct energy savings or users.



- › 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

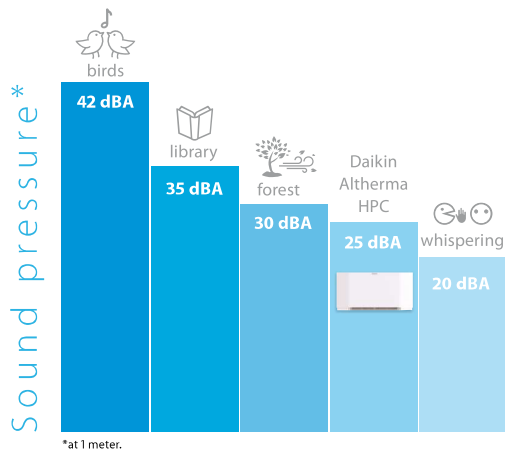
The Daikin Altherma HPC combines the advantages of residential underfloor heating and radiators. It delivers high capacity heating or cooling faster and can be selected at ultra-low temperatures (35/30°C regime).





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

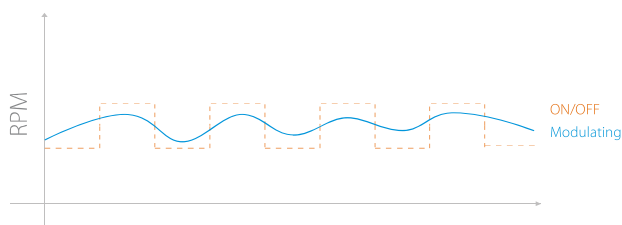


- > Built-in controller
- > ON/OFF
- > In combination with external thermostats



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.

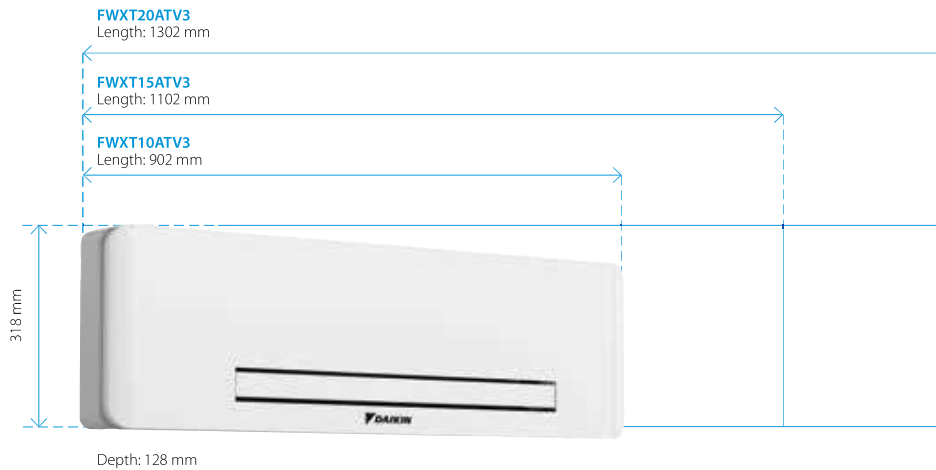


Wall mounted model



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.

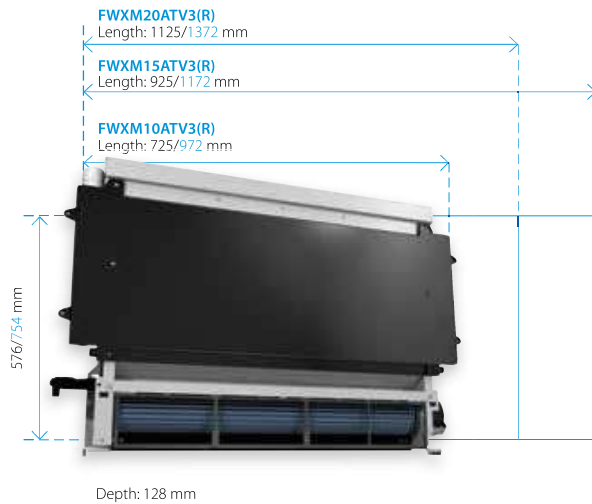
3 MODULATED AIRFLOW

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.



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



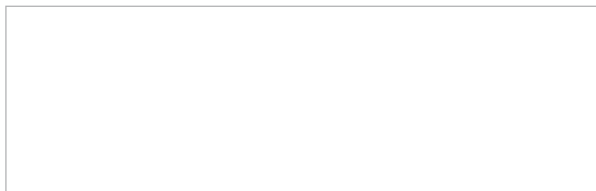
Indoor unit				FWXV/M10ATV3	FWXV/M15ATV3	FWXV/M20ATV3	
Cooling capacity at 7/12°C	Min.		kW	0,66	1,30	1,82	
	Med.		kW	1,36	2,16	2,52	
	Max.		kW	1,77	2,89	3,20	
Sensible cooling capacity at 7/12°C	Min.		kW	0,39	0,99	1,22	
	Med.		kW	0,98	1,53	1,55	
	Max.		kW	1,33	2,10	1,78	
Heating capacity at 35/30°C	Min.		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
Sound power level	Super silent		bar	10	10	10	
			dBa	29	31	32	
	Min.		dBa	34	35	35	
Sound pressure level	Super silent		dBa	51	53	55	
			dBa	20	22	23	
	Min.		dBa	25	26	26	
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	
	Med.		kW	0,01	0,01	0,02	
	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	
Water circuit	Max Operating pressure		bar	10			
	Piping connections diameter		inch	3/4" male			
Water circuit	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	
	Sound power level	Pressure	Heating/Max.	bar	10	10	10
		Min.		dB(A)	34	34	35
		Max.		dB(A)	49	51	52
	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		
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) FWXV15ATV3(R) FWXV20ATV3(R)	FWXM10ATV3(R)	FWXM15ATV3(R)	FWXM20ATV3(R)	FWXT10ATV3 FWXT15ATV3 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	Front cover for ceiling installation			Opt		Opt	
EKM10CH							
EKM15CH	Front cover for wall installation			Opt		Opt	
EKM20CH							
EKM10CV	Air intake fitting			Opt		Opt	
EKM15CV							
EKM10DH	90°C exhaust bend (Horizontal)			Opt		Opt	
EKM15DH							
EKM20DH	Condensate collector tray for horizontal installation			Opt		Opt	
EKM10D90							
EKM15D90	Telescopic air flow duct			Opt		Opt	
EKM20D90							
EKM10COH	Aluminum air intake grill with straight airflow			Opt		Opt	
EKM15COH							
EKM20COH	Straight airflow vent			Opt		Opt	
EKM10DT							
EKM15DT	Aluminum air intake grill with curved airflow			Opt		Opt	
EKM20DT							
EKM10IS	Aluminum air outlet grill with curved airflow			Opt		Opt	
EKM15IS							
EKM20IS							
EKM10SV							
EKM15SV							
EKM20SV							
EKM10IC							
EKM15IC							
EKM20IC							
EKM10CA							
EKM15CA							
EKM20CA							

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