

Daikin Altherma HPC heat pump convector



FWXV-ATV3 series

The Daikin Altherma HPC: a fresh approach to home comfort



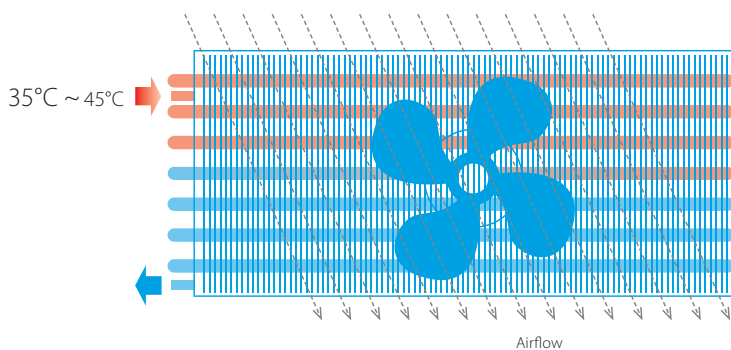
Providing cooling and heating, Daikin Altherma HPC (heat pump convector) can be combined with underfloor piping and can replace outdated radiators. The unit is ideal for bedrooms and living rooms thanks to its silent operation and elegant design.



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, in the long run contributing to direct energy savings for users.

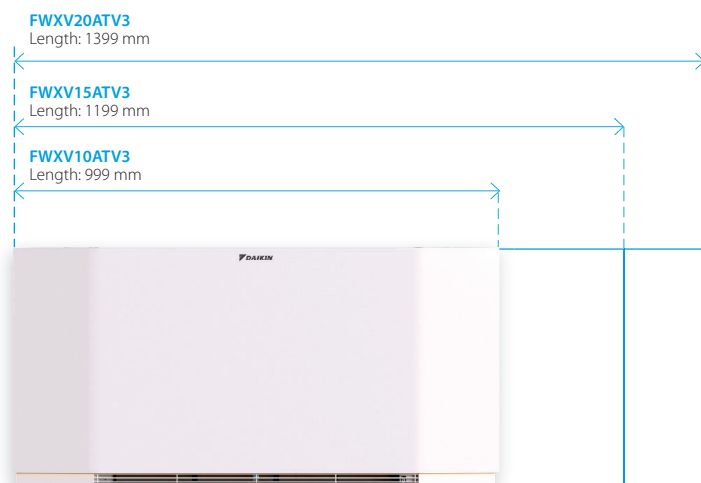


- > Optimised for new build houses
- > Can be selected at low water temperature (35°C) which makes it ideal for heat pump applications.



Slim design

Measuring 135 mm (depth), this heat pump can fit in any house or apartment.



Fast and high capacity

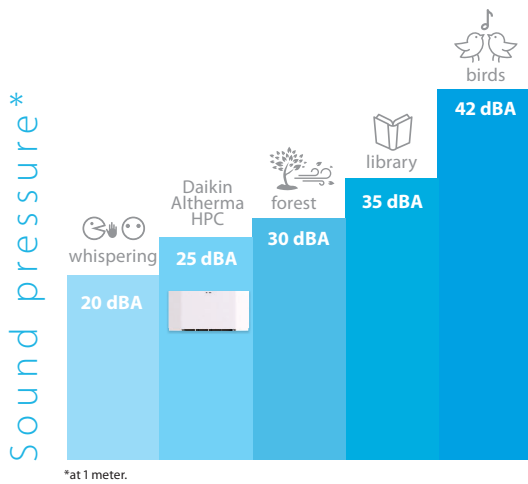
The Daikin Altherma HPC combines the advantages of residential underfloor heating and radiators. It quickly delivers high capacity heating or cooling and can be selected at ultra-low temperatures (35/30°C regime).





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 while maintaining its reliable performance.



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



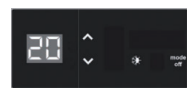
- > Built-in controller
- > 4 speed selection

EKWHCTRL1



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

EKPCBO

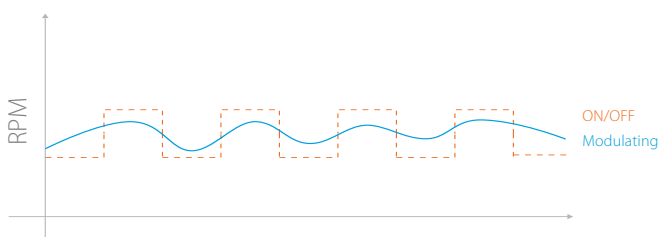


- > Built-in controller
- > ON/OFF
- > In combination with external thermostats



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.



Indoor unit				FWXV10ATV3	FWXV15ATV3	FWXV20ATV3	
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.		m ³ /h	118	180	246	
	Med.		m ³ /h	210	318	410	
	Max.		m ³ /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	
Sound power level	Super silent		dB(A)	29	31	32	
	Min.		dB(A)	34	35	35	
	Max.		dB(A)	51	53	55	
Sound pressure level	Super silent		dB(A)	20	22	23	
	Min.		dB(A)	25	26	26	
	Max.		dB(A)	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	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	

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Heating installer line: 01932 879070

Dedicated homeowner support line: 01932 879271

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