DAIKIN

altherma

Daikin Altherma M HW

Product catalogue 2022

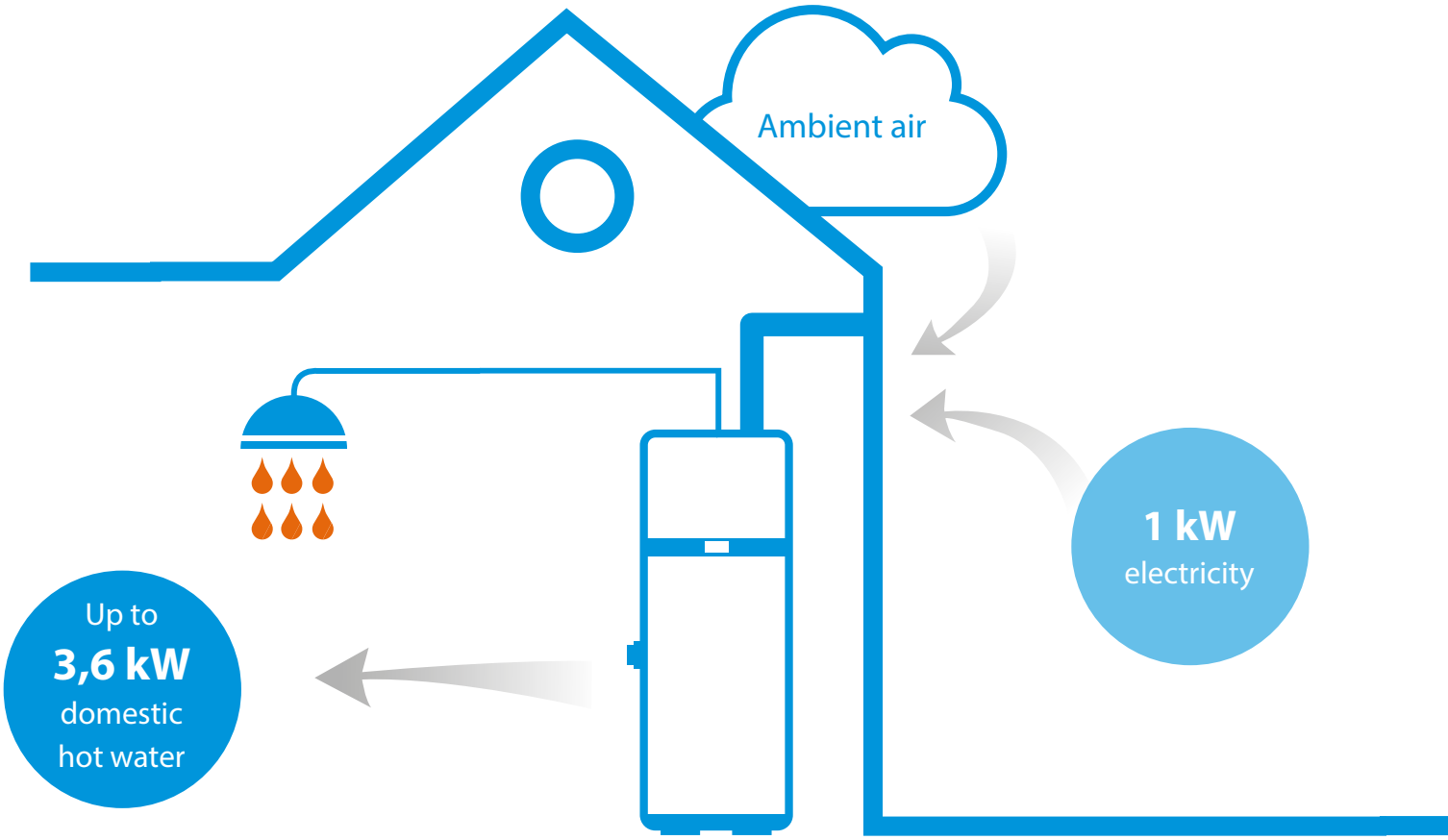
New generation of domestic water heat pumps

Why choose Daikin Altherma domestic hot water heat pump?

How does it work?

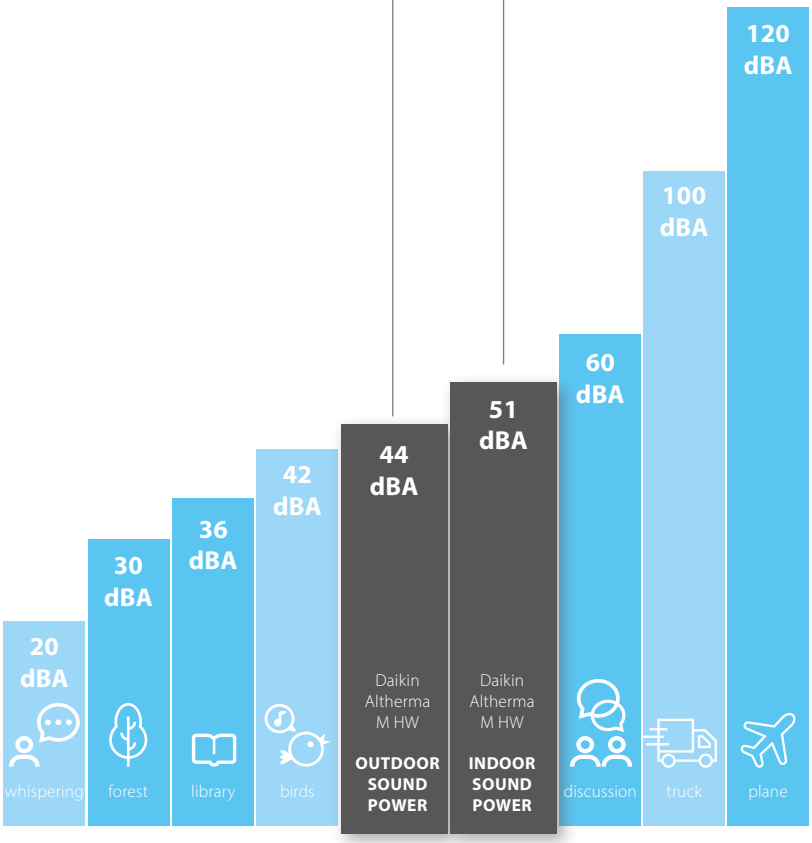
The system is made of a singly indoor unit that extracts energy from the air to provide domestic hot water. The unit collects up to 60% of its energy in the air, while the rest is provided by electricity.

This heat pump relies on a compressor and a refrigerant to transfer the energy from the air to the water, heating the water up to your needs and delivering it into your house.



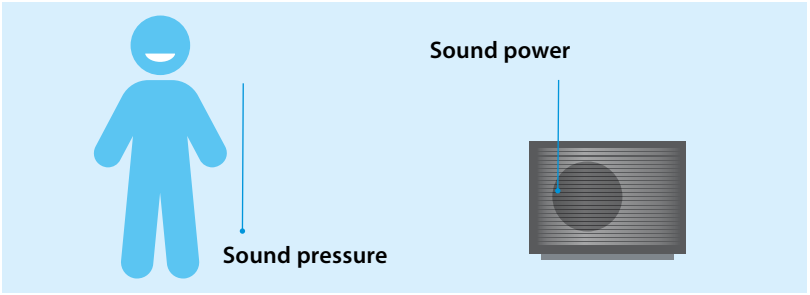
Remarkably quiet

With a sound power of 51dB(A) indoor, and 44dB(A) outdoor, it is one of the most silent domestic hot water heat pump.



The acoustic level can be evaluated in two ways

› The **sound power** is generated by the unit itself, independently of distance and environment
› The **sound pressure** is the sound perceived at a certain distance. The sound pressure is usually calculated at between 1 and 5 metres from the unit.

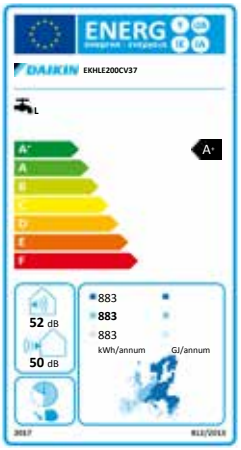


Product range

EKHHE200CV37 | EKHHE200PCV37 | EKHHE260CV37 | EKHHE260PCV37 | EKHLE200CV3 | EKHLE260CV3

These models are connectable to solar thermal or another auxiliary source, thanks to an extra coil, support the heat up of domestic hot water.

High temperature models are dedicated for warm climate conditions.



Features

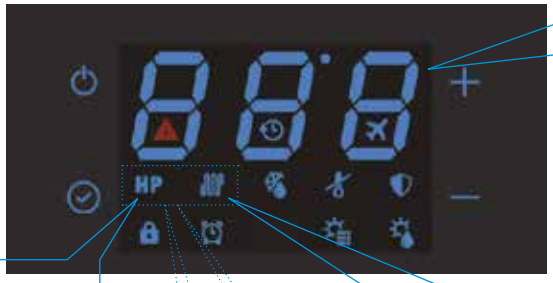
Daikin Altherma M HW is an air-water heat pump for the production of domestic hot water, storage in a enamelled steel tank, with condenser having an external jacket to guarantee top safety and hygiene.

- Maximum temperature of 62°C from renewable energy with heat pump alone or through a heating element (up to 75°C)
- Programmable digital interface with TOUCH keys
- Integration through Solar Thermal energy (-PCV37 model) or through a heating element (up to 75°C) on all models
- Integration with Photovoltaic Solar system

Intuitive controls

A very simple and intuitive display

› White backlit LEDs to control temperature and features
› **Red** backlit LEDs for alarm warnings
› The 4 side TOUCH keys turn Daikin Altherma M HW on/off (⏻);
keys to browse through the MENU (**SET**) and increase (**+**) or decrease (**-**) settings



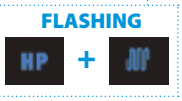
Fan mode
Air recirculation only
Daikin Altherma M HW only works in ventilation mode. The heat pump and additional heater are off.

Eco mode
Reneable energy only
Daikin Altherma M HW only works in heat pump mode. The additional heater turns on as a support only if the outdoor temperature is outside the operating range (setpoint 62°C).

Electric mode
Electrical energy only
Daikin Altherma M HW only works with the additional heater. Set point can be up to 75°C.

Auto mode
Renewable energy as the preferred option
Daikin Altherma M HW works in heat pump mode by default. The additional heater turns on as a support only if the tank temperature increase is too slow (>4°C/30 min). Or the outdoor temperature is outside the operating range (setpoint 62°C).

Boost mode
Combined use of renewable and electrical energy
Daikin Altherma M HW simultaneously operates as a heat pump and with the additional heater.
Setpoint can be up to 75°C.

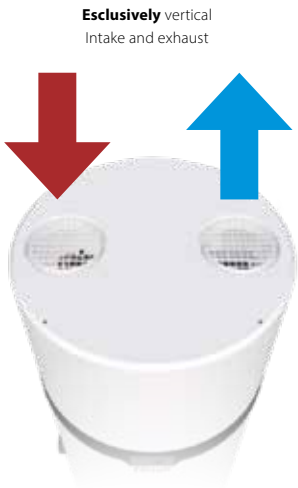


Specifications

Type	Volume (l)	Capacity	Dimensions (mm)	Optimisation from Photovoltaic	Integrated Solar Thermal Control	Legionella Control Sanitisation	Time slot-based operation	OFF PEAK feature	Defrosting on	Holiday Mode
EKHHE-CV37	200	3	628 x 628 x 1607	•	–	•	•	•	•	•
	260	4	628 x 628 x 1892	•	–	•	•	•	•	•
EKHHE-PCV37	200	3	628 x 628 x 1607	•	•	•	•	•	•	•
	260	4	628 x 628 x 1892	•	•	•	•	•	•	•
EKHLE-CV3	200	3	628 x 628 x 1607	•	–	•	•	•	–	•
	260	4	628 x 628 x 1892	•	–	•	•	•	–	•

Installation

Daikin Altherma M HW can be installed in any room, including non-heated ones like garages and laundry rooms, and does not require any special work, except for the holes for the air intake and exhaust pipes.



Some installation methods

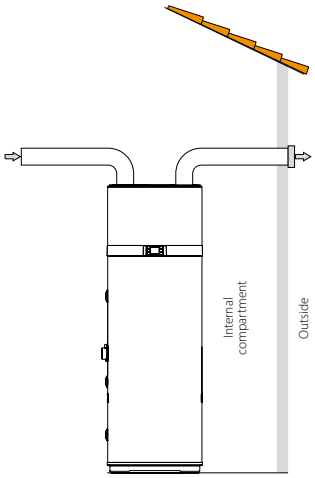


Fig. 1 - Example of air discharge connection

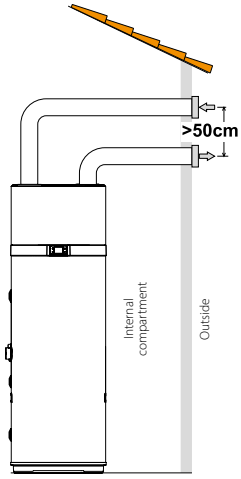


Fig. 2 - Example of air discharge connection

The heat pump requires suitable air ventilation. A suggested method for a designated air duct is provided in Fig. 1. Plus, it is essential to guarantee suitable ventilation in the room where the appliance is installed.

An alternative solution is provided in the picture on the right (Fig. 2): it involves additional ducting that draws air from outdoors, rather than directly from indoors.

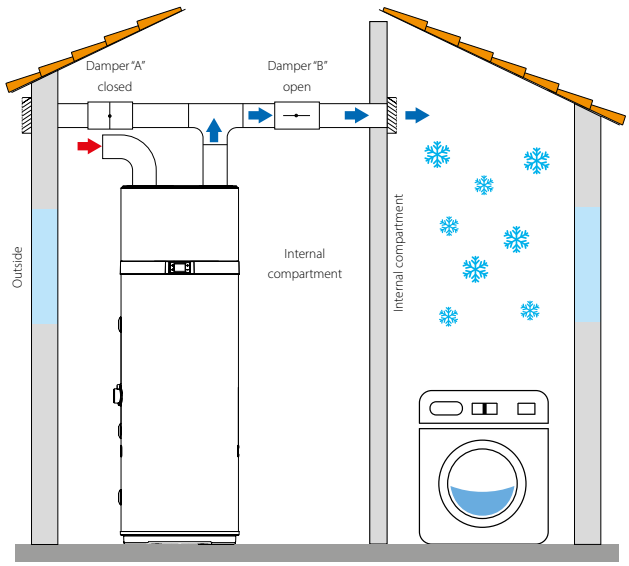


Fig. 3 - Example of installation in summer

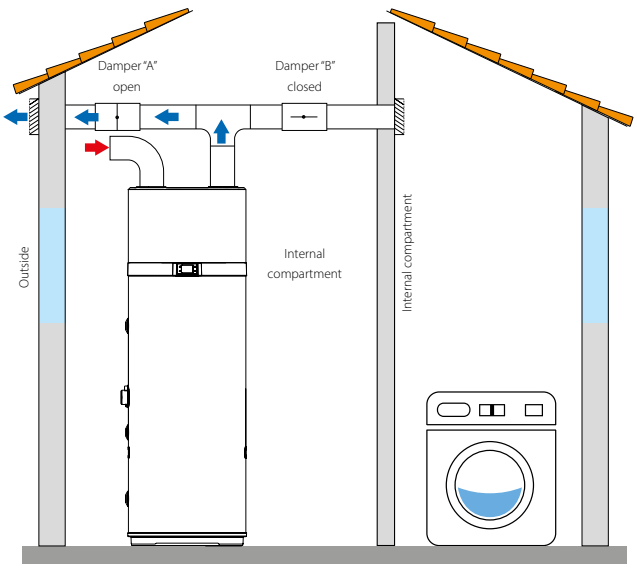


Fig. 4 - Example of installation in winter

One of the unique features of heat-pump heating systems is the fact that these units considerably reduce the temperature of the air, which is usually ejected outdoors. As well as being colder than the air in the room, the ejected air is also completely dehumidified, which is why the airflow can be conveyed back into the home to cool specific areas or rooms in summer. Installation involves doubling the exhaust pipe, on which two dampers ("A" and "B") are applied to convey the airflow either outside (fig. 3) or inside the house (fig. 4).

Daikin Altherma M HW Second Generation

› Available in wall mounted (200-260 L)
› Compact modern design
› Anti-legionella cycle
› Scheduled operation
› Integrated solar thermal control (EKHHE-PCV37)
› Suitable for warm climate (EKHLE-CV3)


EKHHE200CV37

A+

Indoor unit				EK	HHE200CV37	HHE260CV37	HHE200PCV37	HHE260PCV37	HLE200CV3	HLE260CV3
Heat up time	Max.			hh:mm	06:27	09:29	06:27	09:29	07:16	09:44
COP					3.23	3.37	3.23	3.37	4.32	4.32
Domestic hot water	Output	Nom		kW	1.34	1.25	1.34	1.25	1.60	
Equivalent hot water	Max			l	247	340	241	335	247	340
Dimensions	Unit	Height		mm	1,607	1,892	1,607	1,892	1,607	1,892
		Diameter		mm	Top: 621, Bottom: 628					
Weight	Unit	Empty		kg	85	97	96	106	86	98
Installation place					Indoor					
IP class					IP24					
Refrigerant	Type				R-134a					
	GWP				1,430					
	Charge			TCO_2Eq	1.43					
	Charge			kg	1					
Heat pump	Casing	Colour			White					
	Defrost method				Hot gas				-	-
	Automatic defrost start			°C	-5				-	-
	System pressure	Max.		bar	7					
	Operation range	Ambient	Min.	°CDB	-7				4	
			Max.	°CDB	43					
	Power supply	Phase			1					
		Frequency		Hz	50					
		Voltage		V	230					
		Maximum running current		A	8.5				8.2	
Tank	Integrated heating element power	Nom.		kW	1.5					
	Casing	Material			Enamelled steel					
	Installation	Solar thermal connection possible			-	-	Yes	Yes	-	-
	Standing heat loss			W	63	71	63	71	63	70
	Power supply	Phase			1					
		Frequency		Hz	50					
		Voltage		V	230					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
		Water heating energy efficiency class			A+					
		Thermostat temperature setting		°C	55					
	Average climate	AEC (Annual electricity consumption)		kWh	761	1,210	761	1,210	883	1,315
		ηwh (water heating efficiency)		%	135	138	135	138	116	127
	Cold climate	AEC (Annual electricity consumption)		kWh	944	1,496	944	1,496	883	1,315
	Warm climate	AEC (Annual electricity consumption)		kWh	631	1,046	631	1,046	883	1,315
Sound power level	Domestic hot water heating			dBA	53	51	53	51	52	

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