

# Innovation at the heart of our concerns

The Daikin Altherma 3 H MT & HT are at top of low sound and heating performances thanks to dedicated developments. Several major components are designed to make this product reach the excellence such as a double injection compressor and a single fan even for large capacity units as well as a brand-new casing.

## A redesigned casing

The black front grille made of horizontal lines is hiding the fan from view, reducing the perception of the sound produced by the unit.

The light grey casing is slightly reflecting the environment where the unit is installed, helping it to blend in in any decor.

This unique design already got design awards.

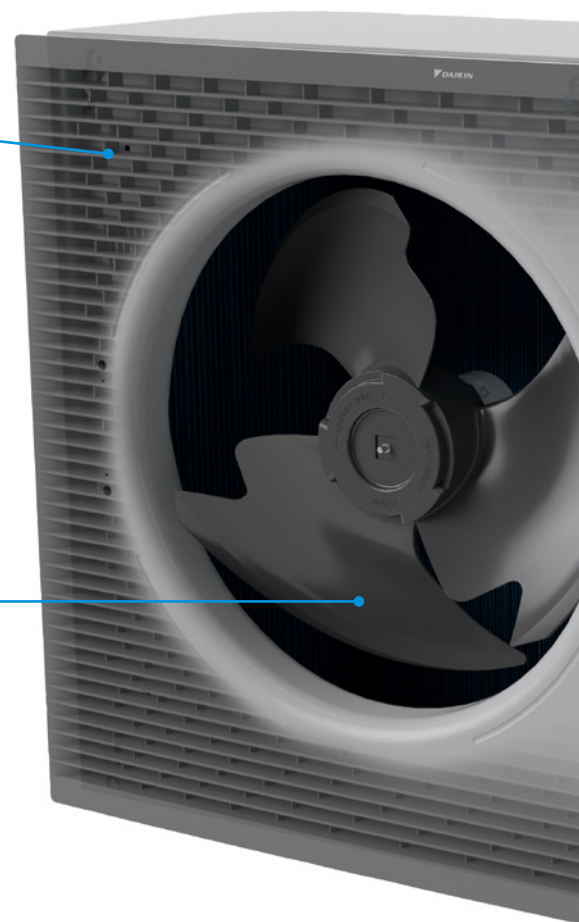


reddot design award  
winner 2019

## A single fan for all capacities

The single fan is slightly larger, replacing the usual double fan for high capacity units (classes 8-10-12-14-16-18).

The shape of the fan has also been reviewed to reduce the contact surface with air therefore lower the sound level by improving the air circulation.

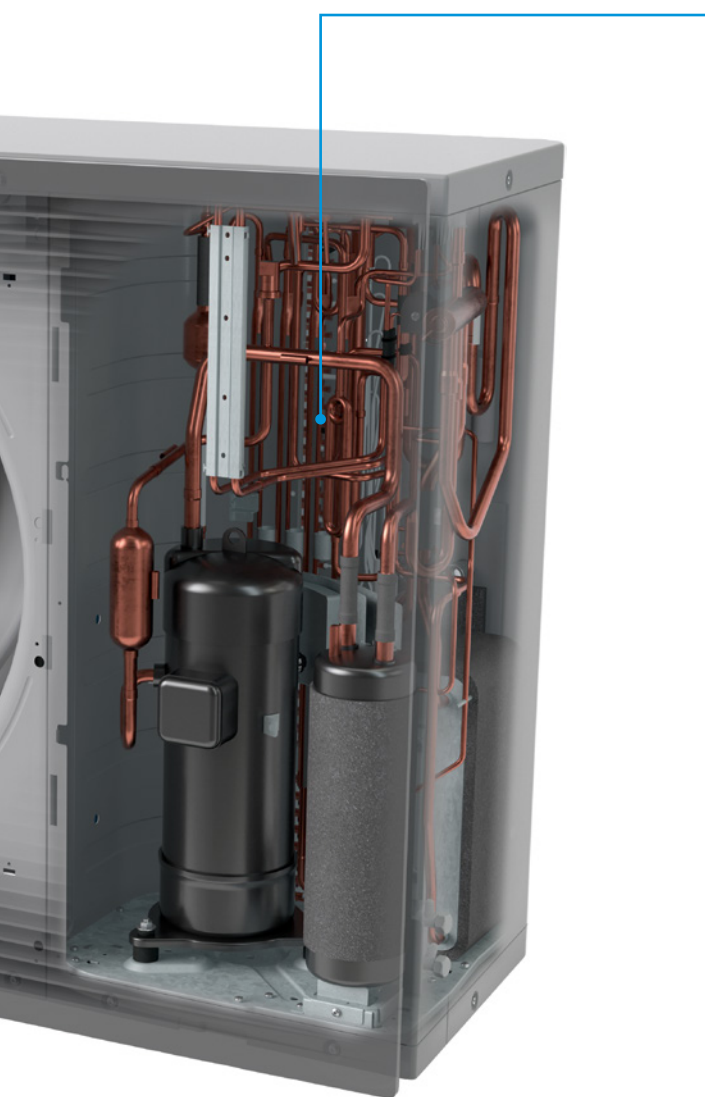
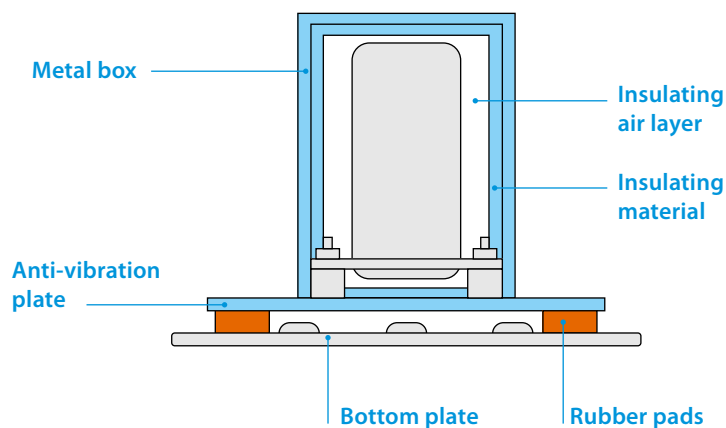


## Compressor insulation and anti-vibration

To reduce the compressor sound power, several actions were taken in terms of absorption and insulation.

First, the compressor is surrounded by a 3-layer insulation made of air, insulation material and a metal box.

Regarding the absorption, the unit benefits from a double sound reduction by using rubber pads between the bottom plate and the vibration plate under the compressor.



## New double injection compressor

To make this product unique, Daikin Europe cooperated with Daikin Japan to develop top notch components. The Daikin Altherma 3 H HT compressor is able to deliver a high leaving water temperature of 70 °C on its own, while the Daikin Altherma 3 H MT available in classes 8-10-12 delivers up to 65 °C leaving water temperature.

## Impressive performance

With these new developments, the Daikin Altherma 3 H MT & HT reach the best performances illustrated in the energy labels:



Feel a true performance

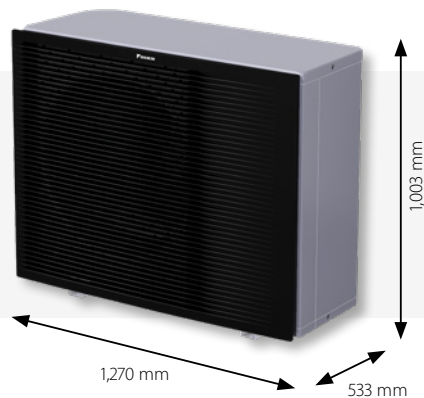


# One solution, multiple combinations

The Quintessence range can be combined with three different indoor units to connect to the outdoor unit, offering specific features to ensure heating, cooling and domestic hot water in your home.

## Outdoor unit

The outdoor unit is available in 6 classes 8-10-12-14-16-18 kW.



## Integrated DHW stainless steel tank model

This model is a compact unit with a small footprint of 595 x 625 mm. The unit is equipped with a tank of 180 or 230 L to answer your domestic hot water demand.



## Integrated ECH<sub>2</sub>O DHW tank model

The ECH<sub>2</sub>O unit is equipped with a thermal DHW tank of 300 or 500 L that can be connected to thermal solar panels.



## Wall mounted model

This model is the most compact unit but needs to be with a separate tank to deliver domestic hot water.



See exact dimensions per model in the specification tables (p22-29).

# Get the best comfort with the best functionalities

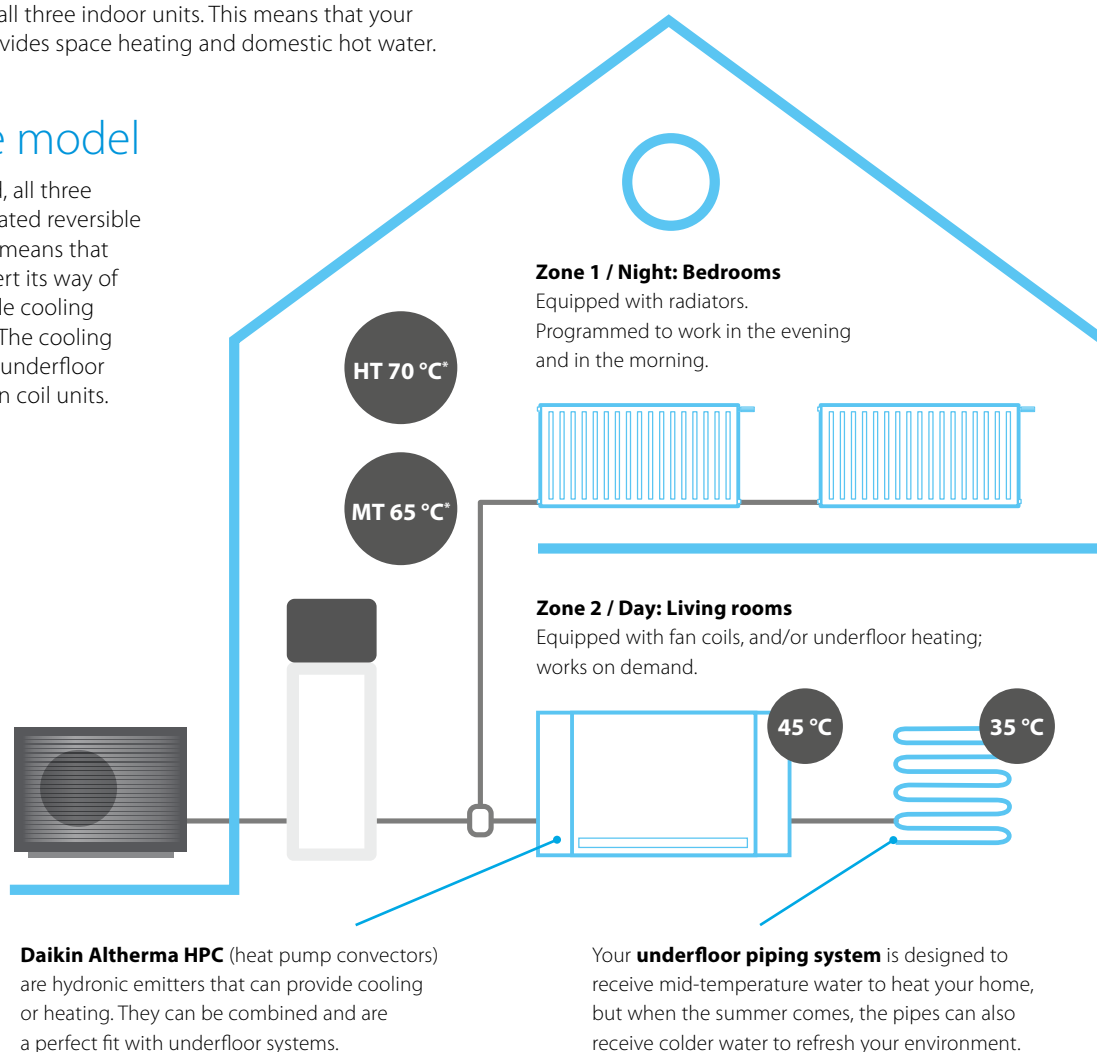
Choose from the Daikin "Three Pluses" the functionality that best fits your customer's needs. The indoor units come in 3 possible versions: heating only, reversible and bizona, giving you the opportunity to tailor your Daikin heating system.

## + Heating only model

The heating only model is standard in the Daikin product range and is available for all three indoor units. This means that your heating system provides space heating and domestic hot water.

## + Reversible model

If cooling is needed, all three indoors have dedicated reversible models. Reversible means that the system can invert its way of working and provide cooling instead of heating. The cooling function requires a underfloor piping system or fan coil units.



## + Bizona model

Only the DHW stainless steel tank model has a dedicated bizona model: you can choose two independent zones with different emitters that need a different temperature level in different rooms (example: underfloor system in the living room and radiators in the bedroom upstairs).

The 2 zones can also be managed independently: deactivate heating on the first floor during the day in order to reduce over consumption.

\* Daikin Altherma 3 H HT models produce a LWT up to 70 °C (14-16-18 classes). Daikin Altherma 3 H MT produces a LWT up to 65 °C (08-10-12 classes).



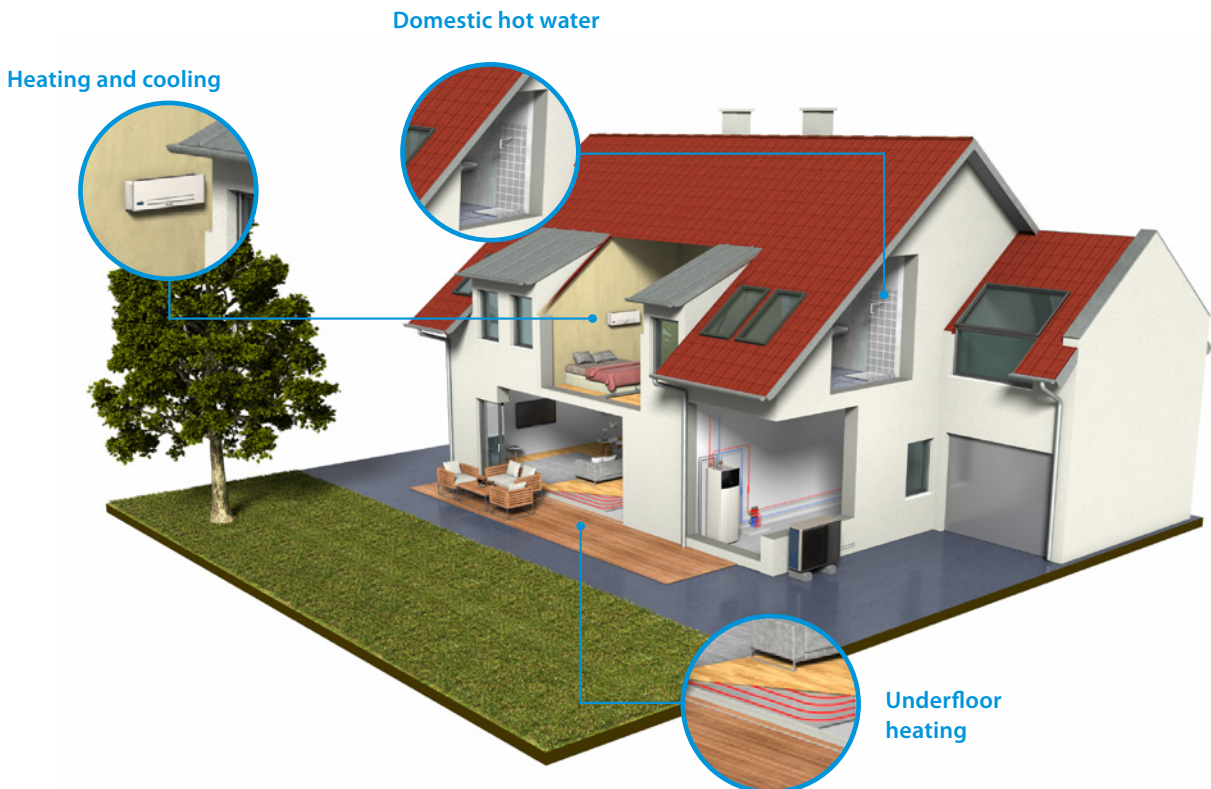
## Floor standing unit with integrated tank

### Why choose Daikin floor standing unit with integrated domestic hot water tank?

The Daikin Altherma 3 floor standing unit is the ideal system **to deliver heating, domestic hot water and cooling** for renovation or large new built.

#### All in one system to save installation space and time

- › A combined stainless steel domestic hot water tank of 180 or 230 L and heat pump ensures a faster installation compared to traditional systems.
- › Inclusion of all hydraulic components means no third party components are required.
- › PCB board and hydraulic components are located in the front for easy access
- › Small installation footprint of 595 x 625 mm
- › Integrated back-up heater choice of 6, 9 kW models are available
- › Dedicated bi-zone models allowing temperature monitoring for 2 zones.



# All-in one design

## Reduces the installation footprint and height

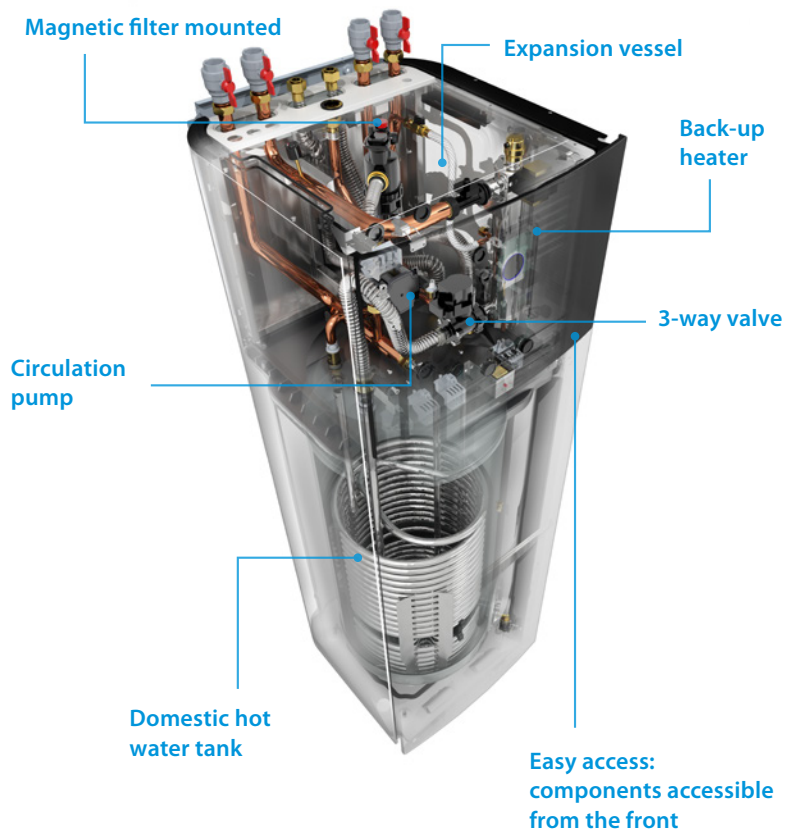
Compared to the traditional split version for a wall mounted indoor unit and a separate domestic hot water tank, the integrated indoor unit greatly reduces the installation space required.

With a small footprint of 595 x 625 mm, the integrated indoor unit has a similar footprint when compared to other household appliances.

For installation projects, almost no side clearance is necessary as the piping is located at the top of the unit.

With an installation height of 1.65 m for an 180 L tank and 1.85 m for a 230 L tank, the required installation height is less than 2m.

The compactness of the integrated indoor unit is emphasised by its sleek design and modern look, easy blending in with other household appliances.



## Advanced user interface



### The Daikin Eye

The intuitive Daikin eye shows you in real time the status of your system.

Blue is perfect! Should the eye turn red, an error has occurred.

### Quick to configure

Log in and you'll be able to completely configure the unit via the new interface in less than 10 steps. You can even check if the unit is ready for use by running test cycles!

### Easy operation

Work super-fast with the new interface. It's super easy to use with just a few buttons and 2 navigational knobs.

### Beautiful design

The interface was especially designed to be very intuitive. The high contrasted colour screen delivers stunning and practical visuals that really help you as installer or service engineer.

## Integrated indoor unit



# Daikin Altherma 3 H HT F

Floor standing air to water heat pump for heating, cooling and hot water

- › A combined stainless steel domestic hot water tank of 180 or 230 L and heat pump for easy installation
- › Inclusion of all hydraulic components means no third party components are required
- › PCB board and hydraulic components are located in the front for easy access
- › Small installation footprint of 595 x 625 mm
- › Integrated back-up heater of 6 or 9 kW
- › Heat pump operation down to -28 °C



More details and final information can be found by scanning or clicking the QR codes.



Efficiency data				ETVX + EPRA	16S18E6V7/E9W7 + 14DV7/W17	16S23E6V7/E9W7 + 14DV7/W17	16S18E6V7/E9W7 + 16DV7/W17	16S23E6V7/E9W7 + 16DV7/W17	16S18E6V7/E9W7 + 18DV7/W17	16S23E6V7/E9W7 + 18DV7/W17
Space heating	Average climate water outlet 55 °C	General	SCOP	3.62 / 3.63						
			ηs (Seasonal space heating efficiency)	142						
			Seasonal space heating eff. class	A++						
	Average climate water outlet 35 °C	General	SCOP	4.57 / 4.81						
		ηs (Seasonal space heating efficiency)	180 / 190							
			Seasonal space heating eff. class	A+++						
Domestic hot water heating	General	Declared load profile		L	XL	L	XL	L	XL	XL
	Average climate	COPdhw		2.62 / 2.51	2.61 / 2.55	2.62 / 2.51	2.61 / 2.55	2.62 / 2.51	2.61 / 2.55	
		ηwh (water heating efficiency)	%	110 / 106	108 / 107	110 / 106	108 / 107	110 / 106	108 / 107	
			Water heating energy efficiency class	A						

Indoor Unit				ETVX	16S18E6V7/E79W7	16S23E6V7/E79W7	16S18E6V7/E79W7	16S23E6V7/E79W7	16S18E6V7/E79W7	16S23E6V7/E79W7
Casing	Colour	White + Black								
	Material	Precoated sheet metal								
Dimensions	Unit	HeightxWidthxDepth	mm	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,850x595x625
Weight	Unit		kg	109	118	109	118	109	118	118
Tank	Water volume		l	180	230	180	230	180	230	230
	Maximum water temperature		°C	70						
	Maximum water pressure		bar	10						
	Corrosion protection			Pickling						
Operation range	Heating	Ambient	Min.~Max.	°C						
		Water side	Min.~Max.	°C						
	Cooling	Ambient	Min.~Max.	°C						
		Water side	Min.~Max.	°C						
	Domestic hot water	Ambient	Max.	°C						
		Water side	Min.~Max.	°C						
Sound power level	Nom.		dBA	44						
Sound pressure level	Nom.		dBA	30						

Outdoor Unit				EPRA	14DV37/W17	16DV37/W17	18DV37/W17
Dimensions	Unit	HeightxWidthxDepth	mm	1,003x1,270x533			
Weight	Unit		kg	146 / 151			
Compressor	Quantity			1			
	Type			Hermetically sealed scroll compressor			
Operation range	Heating	Min.~Max.	°CDB	-28 ~ 25			
	Cooling	Min.~Max.	°CDB	10 ~ 43			
	Domestic hot water	Min.~Max.	°CDB	-28 ~ 35			
Refrigerant	Type			R-32			
	GWP			675			
	Charge		kg	4.20			
	Charge		TCO <sub>2</sub> Eq	2.84			
	Control			Expansion valve			
LW(A) Sound power level (according to EN14825)				54			
Sound pressure level (at 1 meter)	Nom.			43		48	
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1~/50/230 / W1/3~/50/400			
Current	Recommended fuses		A	32 / 16			

This product contains fluorinated greenhouse gases.