



Daikin Altherma 3 R

The power pact

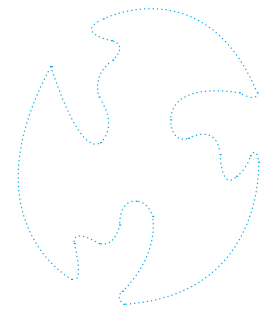
The Daikin Altherma 3 R is the world's first high capacity R-32 refrigerant split unit, providing cooling next to heating and domestic hot water.

Improved compactness

A redesigned casing

A black horizontal front grille hides the single fan, reducing the perception of sound produced by the unit.

The light grey casing reflects the installation space to help the unit blend into any environment.



A single fan for high-capacity units

Daikin engineers replaced the double fan with one larger fan and optimised its shape to lower the operational sound and improve air circulation.



1,100 mm

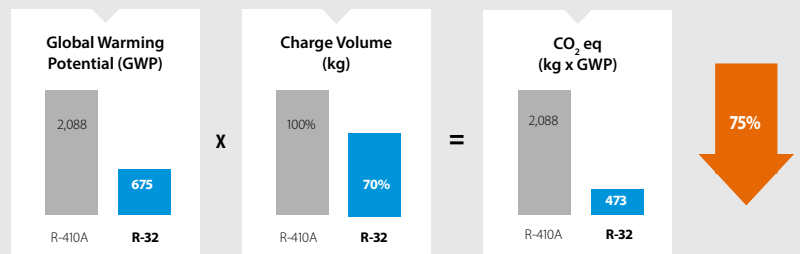


Check out the improved compactness!

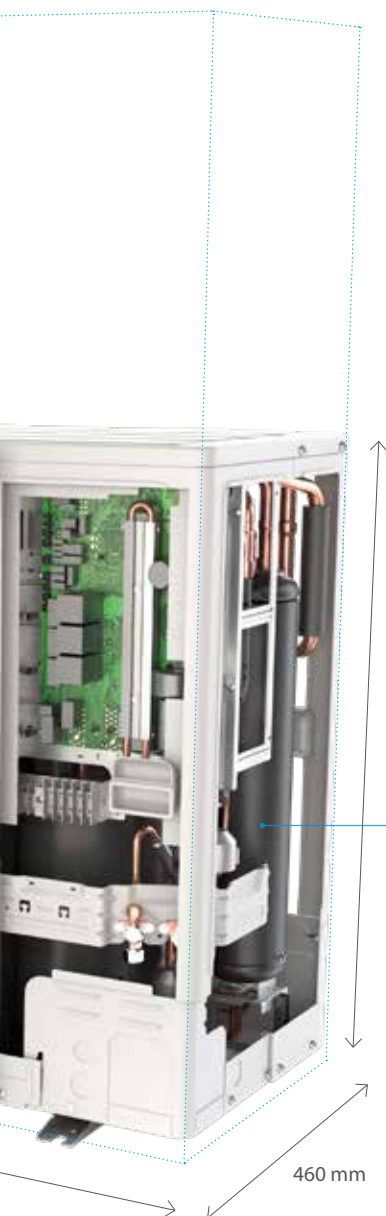
Running on refrigerant R-32

Daikin is a pioneer in launching heat pumps equipped with R-32. With a lower Global Warming Potential (GWP), the R-32 is equivalent in power to standard refrigerants, but achieves higher energy efficiency and lower CO₂ emissions. Easy to recover and reuse, R-32 is the perfect solution for attaining the new European CO₂ emission targets.

Reduced environmental impact: CO₂eq > 75% reduction
 > GWP: R-410A: 2,088 > R-32: 675
 > 30% less refrigerant charge needed



R-32 BLUEEVOLUTION



870 mm

460 mm

Ideal for small spaces

Thanks to its single fan, the height is reduced, and its black grille makes it fit discretely in all kind of exteriors.



Improved design



Meeting modern society expectations

Outside, the outdoor unit blends in thanks to its black front grille. The horizontal lines of the grille hides the fan from view, making it more discreet.

In Europe, design has a huge importance. That's why, at Daikin, we have developed a new design line for outdoor units.

Customers invest in their property to make it look better and more sustainable, heat pumps must tick all boxes.



Check out the improved design!





Discretion and peace of mind

As a third generation Daikin Altherma heat pump, indoor units gather all the installation and design improvements, rewarded in 2018 by RedDot, iF and Plus X awards.

Daikin indoor units can be installed in different places, garage, basement, utility room or even a kitchen while still blending in with the indoor design.

The units have also been designed to ease the work of the installer and therefore contribute to your peace of mind!



reddot award 2018
winner



reddot award 2018
winner



Improved performance

All year round comfort

Daikin Altherma 3 R provides heating efficiently, both for space or domestic water.

With a leaving water temperature of up to 60°C at -7°C outside, the unit is intended for new buildings. The unit operations are ensured down to -25°C outside temperature.

As a low temperature heat pump, it is particularly efficient with low temperature emitters, such as underfloor heating and heat pump convectors, both available in the total Daikin solution.

World first in its category

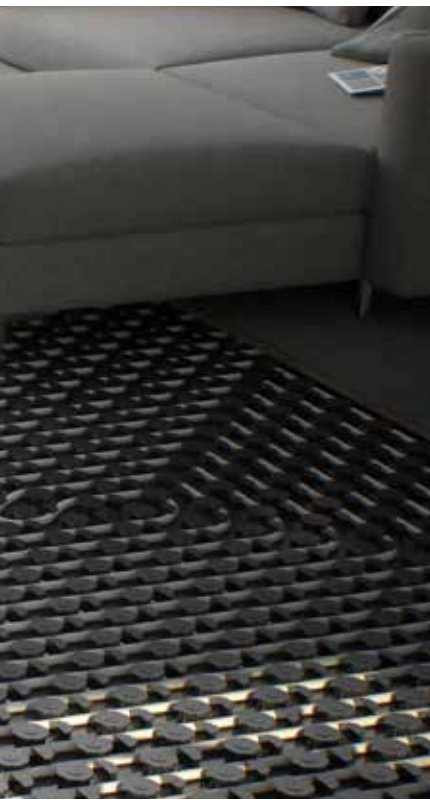
Indeed, Daikin Altherma 3 R is the world first high capacity R-32 refrigerant split heat pump to provide cooling, next to heating!

A patent is pending for the plate heat exchanger, positioning once more Daikin as the heat pump leader (patent application n°EP3839360).



Check out the improved performance!





Underfloor heating



Heat pump convector



Daikin Altherma 3 R, a complete offer

- Space Heating
- Space Cooling
- Domestic hot water
- App and voice control
- Flexible emitter choice
- All year round peace of mind



Daikin Altherma 3 R F

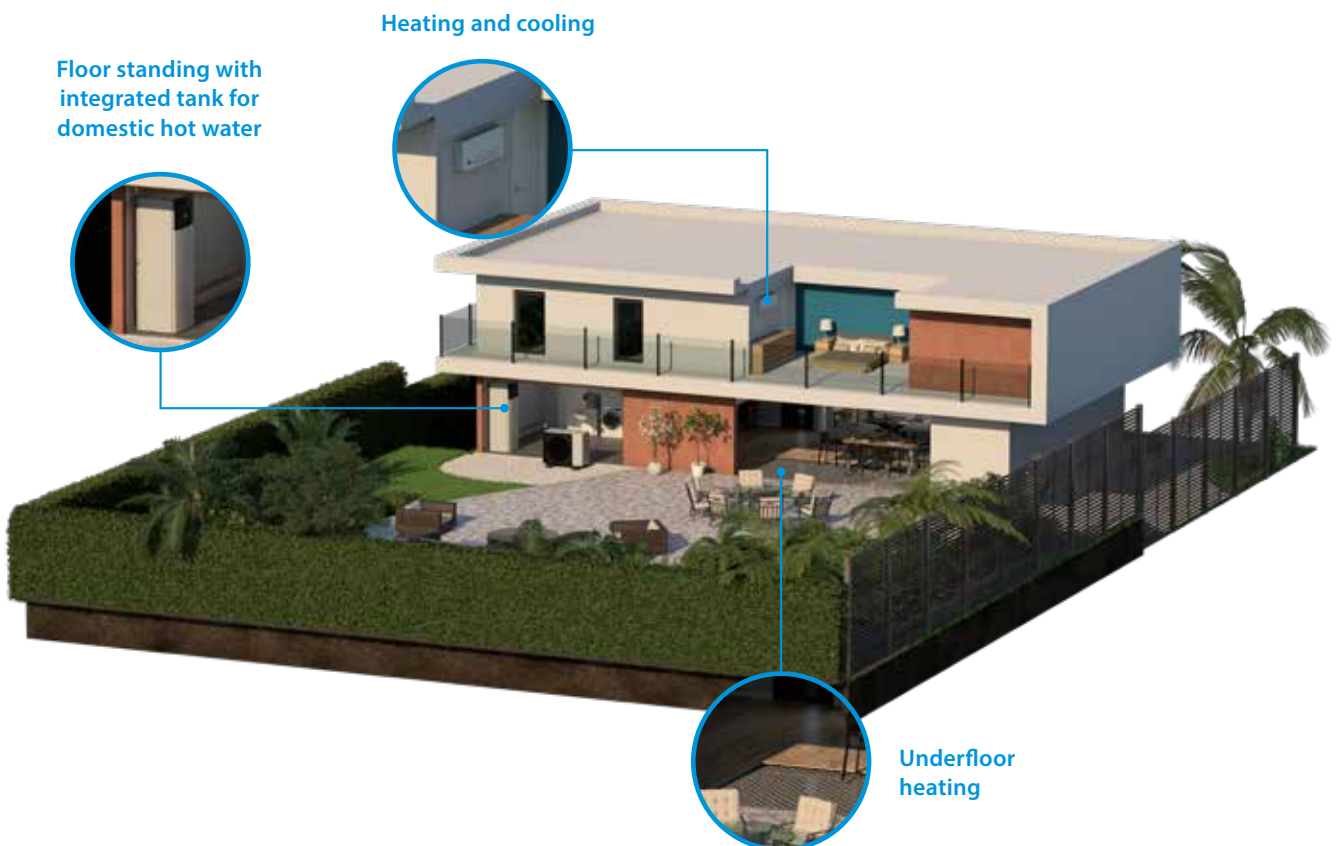
Floor standing unit with integrated tank

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 heatpump 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 634 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

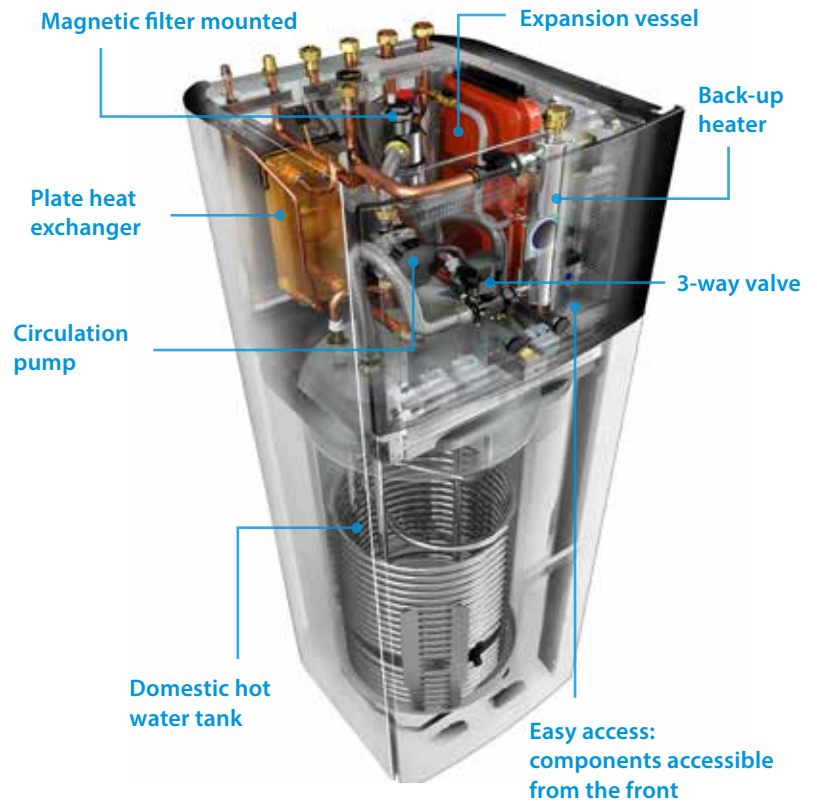
Compared to the traditional split version for a wall mounted indoor unit and a separate domestic hot water tank, the integrated indoor unit greatly reduces the installation space required.

With a small footprint of 595 x 634 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!

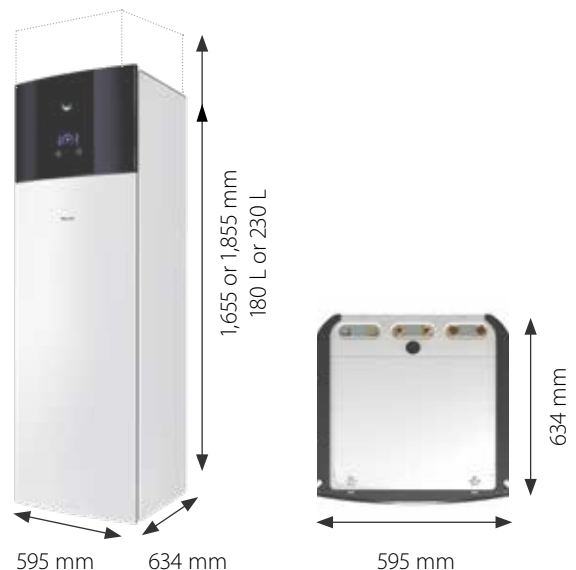
Easy operation

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 R F

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

- › A combined stainless steel domestic hot water tank of 180 or 230L 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 634 mm
- › Integrated back-up heater of 6 or 9 kW
- › Heat pump operation down to -25°C



up to up to



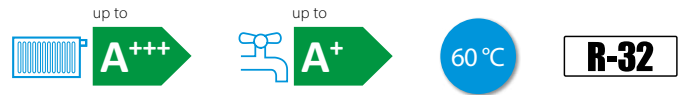
Efficiency data				EBVH + ERLA		11S18D6V/9W + 11DV/W	11S23D6V/9W + 11DV/W	16S18D6V/9W + 14DV/W	16S23D6V/9W + 14DV/W	16S18D6V/9W + 16DV/W	16S23D6V/9W + 16DV/W	
Space heating	Average climate water outlet 55°C	General	SCOP			3.23		3.22		3.32		
			η _{sp} (Seasonal space heating efficiency)			126				130		
			Seasonal space heating eff. class					A++				
	Average climate water outlet 35°C	General	SCOP			4.63		4.60		4.61		
		η _{sp} (Seasonal space heating efficiency)			182		181					
		Seasonal space heating eff. class					A+++					
Domestic hot water heating	Average climate	General	Declared load profile	L	XL	L	XL	L	XL	L	XL	
			COP _{dhw}	2.73	2.63	2.73	2.63	2.73	2.63	2.73	2.63	
		η _{wh} (water heating efficiency)			116		109		116		109	
		Water heating energy efficiency class			A+		A		A+		A	
Indoor Unit				EBVH		11S18D6V/9W	11S23D6V/9W	16S18D6V/9W	16S23D6V/9W	16S18D6V/9W	16S23D6V/9W	
Casing	Colour	White + Black										
	Material	Precoated sheet metal										
Dimensions	Unit	HeightxWidthxDepth	mm	1,655 x 595 x 634	1,855 x 595 x 634	1,655 x 595x634	1,655 x 595 x 634	1,655 x 595x634	1,855 x 595 x 634			
Weight	Unit		kg	124	133	124	133	124	133			
Tank	Water volume		l	180	230	180	230	180	230			
	Maximum water temperature		°C			70						
	Maximum water pressure		bar			10						
	Corrosion protection					Pickling						
Operation range	Heating	Ambient	Min. ~ Max.			-25 ~ 35						
		Water side	Min. ~ Max.			18 ~ 60						
	Domestic hot water	Ambient	Min. ~ Max.			-25 ~ 35						
		Water side	Min. ~ Max.			10 ~ 60						
Sound power level	Nom.		dBA			44						
Sound pressure level	Nom.		dBA			30						
Outdoor Unit				ERLA		11DV3/W1	14DV3/W1	16DV3/W1				
Dimensions	Unit	HeightxWidthxDepth	mm			870 x 1,100 x 460						
Weight	Unit		kg			101						
Compressor	Quantity					1						
	Type					Hermetically sealed swing inverter compressor						
Operation range	Heating	Min. ~ Max.	°CDB			-25 ~ 35						
	Cooling	Min. ~ Max.	°CDB			10 ~ 43						
	Domestic hot water	Min. ~ Max.	°CDB			-25 ~ 35						
Refrigerant	Type					R-32						
	GWP					675						
	Charge		kg			3.80						
	Charge		TCO ₂ Eq			2.57						
	Control					Expansion valve						
LW(A) Sound power level (according to EN14825)						62						
Sound pressure level (at 1 meter)	Nom.					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.

Daikin Altherma 3 R 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 230L and heat pump for easy installation
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- › Small installation footprint of 595 x 634 mm
- › Integrated back-up heater of 6 or 9 kW
- › Heat pump operation down to -25°C



011-1W0495
011-1W0496
011-1W0497
011-1W0498
011-1W0499
011-1W0500

Efficiency data				EBVX + ERLA	11S18D6V/9W + 11DV/W	11S23D6V/9W + 11DV/W	16S18D6V/9W + 14DV/W	16S23D6V/9W + 14DV/W	16S18D6V/9W + 16DV/W	16S23D6V/9W + 16DV/W
Space heating	Average climate water outlet 55°C	General	SCOP		3.27		3.26		3.35	
			ηs (Seasonal space heating efficiency) Seasonal space heating eff. class	%	128		A++		131	
	Average climate water outlet 35°C	General	SCOP		4.72		4.68			
			ηs (Seasonal space heating efficiency) Seasonal space heating eff. class	%	186		A+++		184	
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
		Average climate	COPdhw		2.73	2.63	2.73	2.63	2.73	2.63
			ηwh (water heating efficiency) Water heating energy efficiency class	%	116	109	116	109	116	109
				A+	A	A+	A	A+	A	
Indoor Unit				EBVX	11S18D6V/9W	11S23D6V/9W	16S18D6V/9W	16S23D6V/9W	16S18D6V/9W	16S23D6V/9W
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Weight	Unit	kg		124	133	124	133	124	133	
Tank	Water volume	l		180	230	180	230	180	230	
	Maximum water temperature	°C		70						
	Maximum water pressure	bar		10						
	Corrosion protection			Pickling						
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	18 ~ 60					
	Cooling	Ambient	Min. ~ Max.	°C	10 ~ 43					
		Water side	Min. ~ Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	10 ~ 60					
Sound power level	Nom.		dBA	44						
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