DAIKIN

CONNECTED HEAT PUMP

OPTIONAL WLAN CARTRIDGE OR MODULE

Daikin Altherma 3 R

Product catalogue 2022

THE POWER PACT

ERLA-D(7) series

DAIKIN

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Daikin Altherma 3 R

The power pact

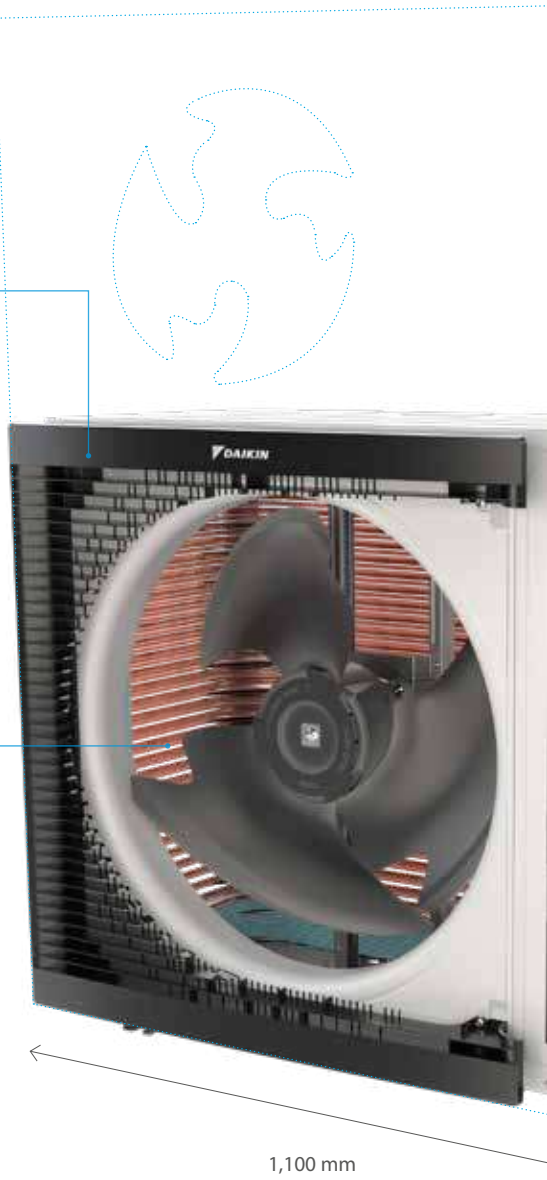
The Daikin Altherma 3 R is the world's first high capacity R-32 refrigerant split unit, providing cooling next to heating and domestic hot water.

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

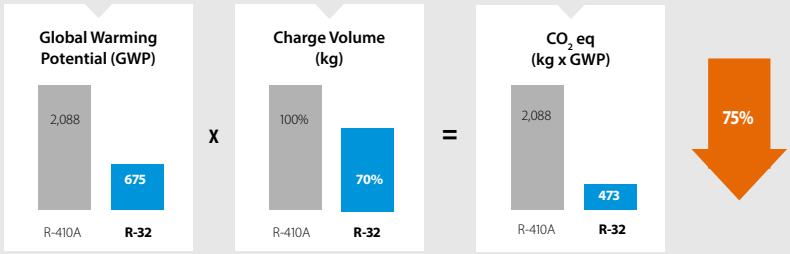
Daikin engineers replaced the double fan with one larger fan and optimised its shape to lower the operational sound and improve air circulation.

Check out the
improved comptactness!

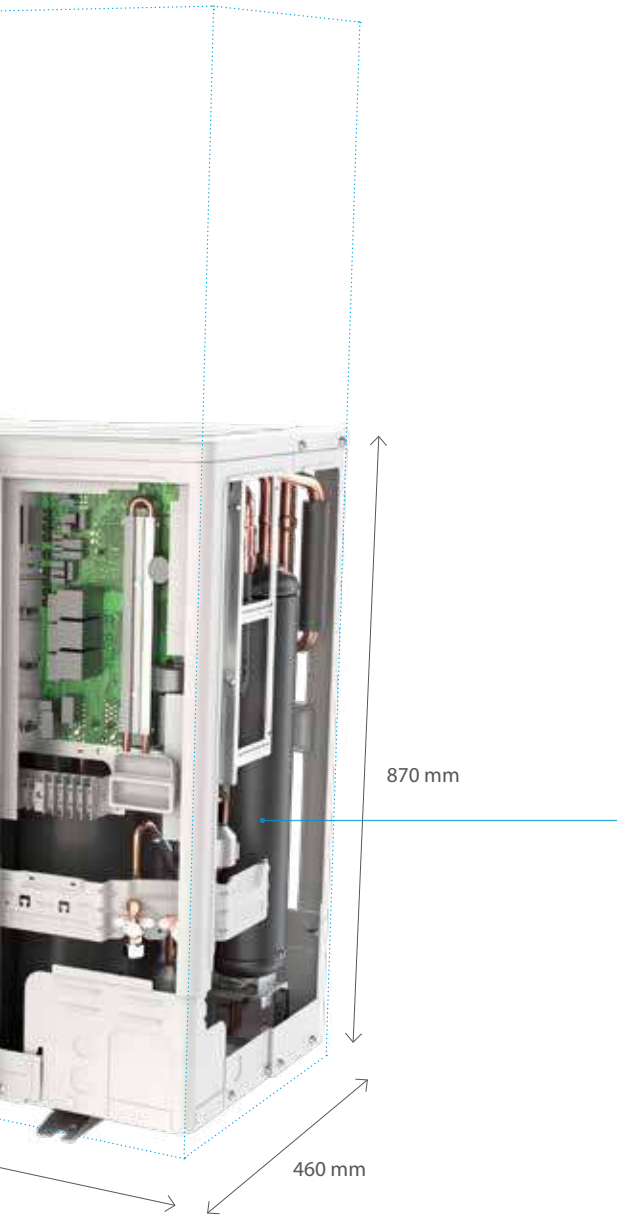
Running on refrigerant R-32

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 CO_2 emissions. Easy to recover and reuse, R-32 is the perfect solution for attaining the new European CO_2 emission targets.

Reduced environmental impact: CO_2eq > 75% reduction
› GWP: R-410A: 2,088 > R-32: 675
› 30% less refrigerant charge needed



R-32 BLUEVOLUTION



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 developped a new design line for outdoor units.

Customers invest in their property to make it look better and more sustainable, heat pumps must thick 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!

DESIGN AWARD 2018

reddot award 2018
winner

DESIGN AWARD 2018

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 hate 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

DESIGN AWARD 2018

reddot award 2018 winner

R-32

BLUEVOLUTION

Daikin Altherma 3 R F

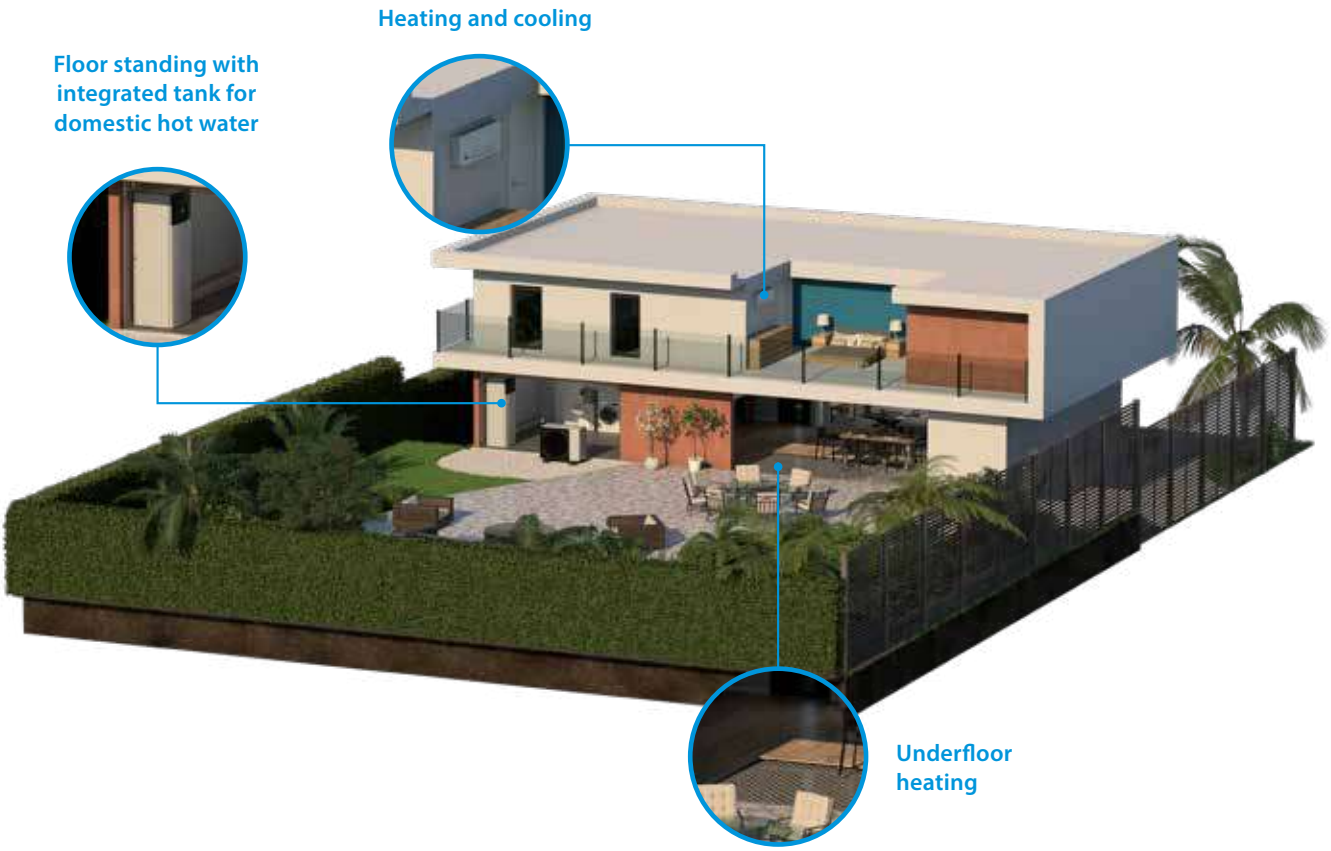
Floor standing unit with integrated tank

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

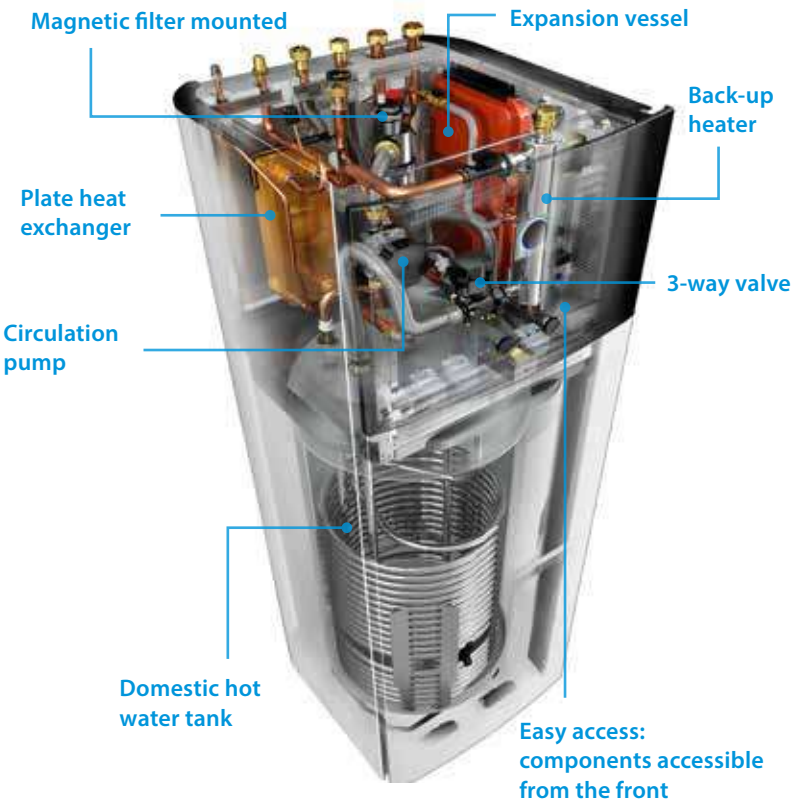
Compared to the traditional split version for a wall mounted indoor unit and a separate domestic hot water tank, the integrated indoor unit greatly reduces the installation space required.

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 occured.

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!

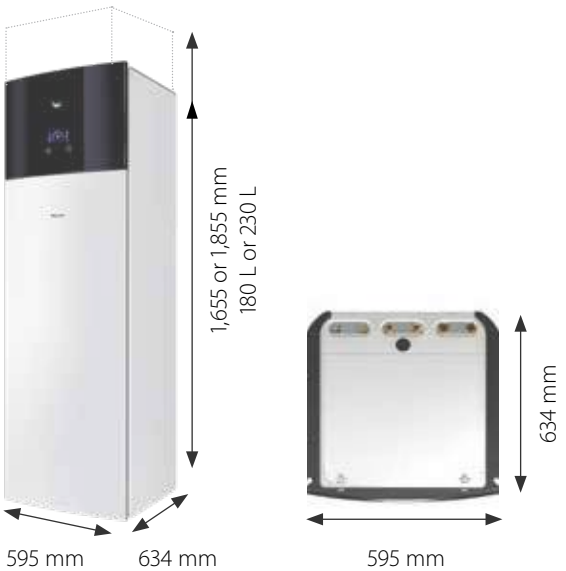
Easy operation

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 A+++ up to A+ 60 °C R-32

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

Efficiency data				EBVH + ERLA	11S18D6V/9W + 11DV/W	11S23D6V/9W + 11DV/W	16S18D6V/9W + 14DV/W	16S23D6V/9W + 14DV/W	16S18D6V/9W + 16DV7/W7	16S23D6V/9W + 16DV7/W7
Space heating	Average climate water outlet 55°C	General	SCOP		3.23		3.22		3.32	
			ηs (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	
			ηs (Seasonal space heating efficiency)	%	182		181			
			Seasonal space heating eff. class		A+++					
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)		%	116	109	116	109	116	109
		Water heating energy efficiency class			A+	A	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.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	18 ~ 60					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	10 ~ 60					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				ERLA	11DV3/W1	14DV3/W1	16DV37/W17
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_2Eq	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
- 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 A+++ up to A+ 60 °C R-32

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 + 16DV7/W7	16S23D6V/9W + 16DV7/W7
Space heating	Average climate water outlet 55°C	General	SCOP		3.27		3.26		3.35	
			ηs (Seasonal space heating efficiency)	%	128				131	
			Seasonal space heating eff. class		A++					
	Average climate water outlet 35°C	General	SCOP		4.72		4.68			
			ηs (Seasonal space heating efficiency)	%	186		184			
			Seasonal space heating eff. class		A+++					
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)		%	116	109	116	109	116	109
		Water heating energy efficiency class			A+	A	A+	A	A+	A

Indoor Unit				EBVX	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 595 x 634	1,855 x 595 x 634	1,655 x 595x 634	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.	°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					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				ERLA	11DV3/W1	14DV3/W1	16DV37/W17
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_2Eq	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 integrated with **two different temperature zones monitoring**

- 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

BRC1HHDS

ERLA11-16DV3(7)/W1(7)

EBVZ-D6V

up to A+++

up to A+

60 °C

R-32

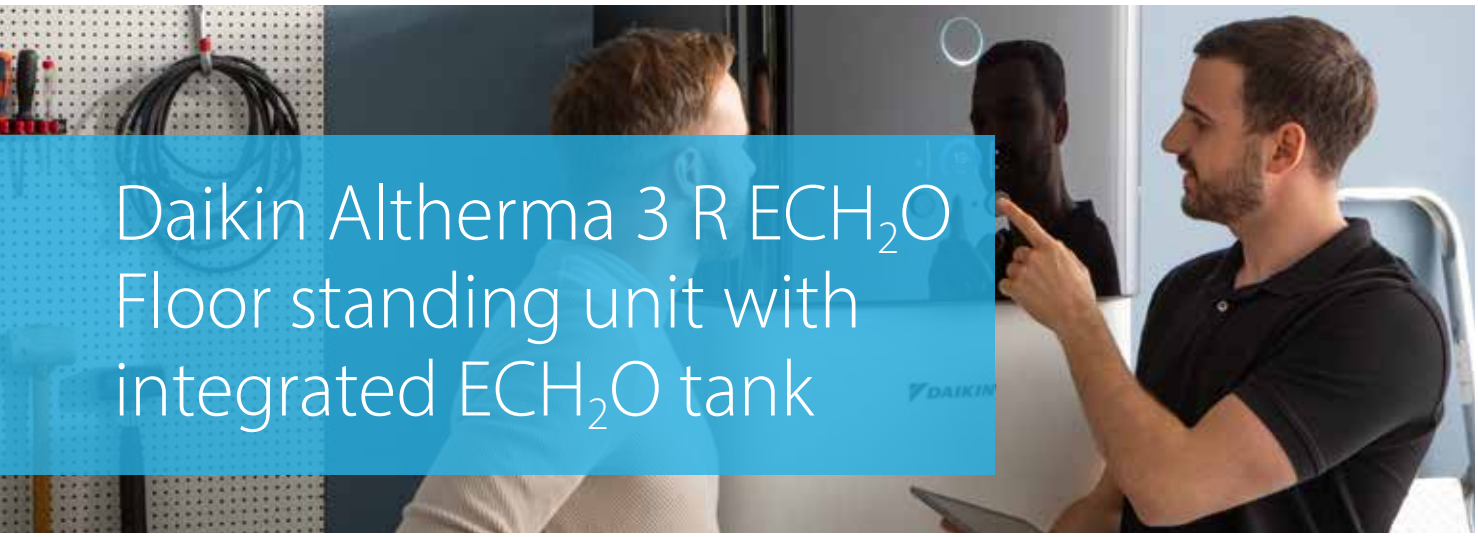
011-1W0495
011-1W0496
011-1W0497
011-1W0498
011-1W0499
011-1W0500

Efficiency data				EBVZ + ERLA	16S18D6V/9W + 11DV/W	16S23D6V/9W + 11DV/W	16S18D6V/9W + 14DV/W	16S23D6V/9W + 14DV/W	16S18D6V/9W + 16DV7/W7	16S23D6V/9W + 16DV7/W7
Space heating	Average climate water outlet 55°C	General	SCOP		3.23		3.22		3.32	
			ηs (Seasonal space heating efficiency)	%	131		126		130	
			Seasonal space heating eff. class		A++					
	Average climate water outlet 35°C	General	SCOP		4.61		4.60		4.61	
			ηs (Seasonal space heating efficiency)	%	182		181			
			Seasonal space heating eff. class		A+++					
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)		%	116	109	116	109	116	109
		Water heating energy efficiency class			A+	A	A+	A	A+	A

Indoor Unit				EBVZ	16S18D6V/9W	16S23D6V/9W	16S18D6V/9W	16S23D6V/9W	16S23D6V/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 595 x 634	1,855 x 595 x 634	1,655 x 595x634	1,855 x 595 x 634
Weight	Unit			kg	137	145	137	145	137	145
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					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 25					
		Water side	Min. ~ Max.	°C	10 ~ 60					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				ERLA	11DV3/W1	14DV3/W1	16DV37/W17
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_2Eq	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 ECH$_2$O Floor standing unit with integrated ECH$_2$O tank

The Daikin Altherma low temperature split integrated ECH$_2$O is renowned for its ability to maximise renewable energy sources to provide the ultimate comfort in heating, domestic hot water and cooling

Intelligent storage management

› The unit is 'Smart Grid' ready to take advantage of low energy tariffs and efficiently store thermal energy for space heating and domestic hot water
› Continuous heating during defrost mode and use of stored heat for space heating (500l tank only)
› Electronic management of both heat pump and ECH$_2$O thermal store maximises energy efficiency, as well as convenient heating and domestic hot water
› Achieves the highest standards for water sanitation
› Uses more renewable energy with solar connection

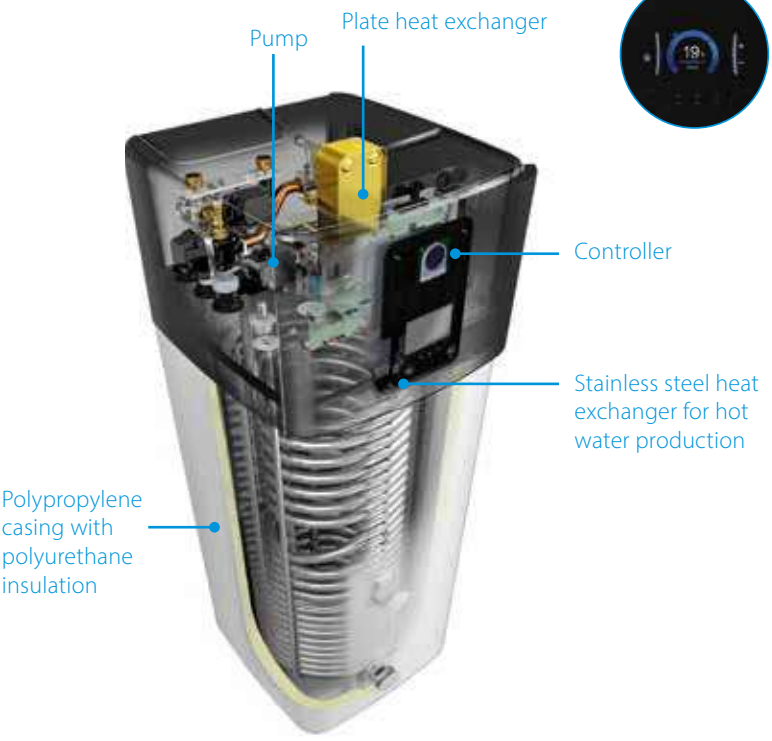
Innovative and high-quality tank

› Lightweight plastic tank
› No corrosion, anode, scale or lime deposits
› Contains impact resistant polypropylene inner and outer walls filled with high-grade insulation foam to reduce heat losses to a minimum

Combinable with other heat sources

› The bivalent option allows heat from other sources such as oil, gas or pellet-fired boilers to be stored in the solar system, further lowering energy consumption

ECH$_2$O



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 in less than 10 steps. You can even check if the unit is ready for use by running test cycles!

Easy operation

The user interface works really fast thanks to its icon-based menus.

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.

ECH_2O thermal store range: additional hot water comfort

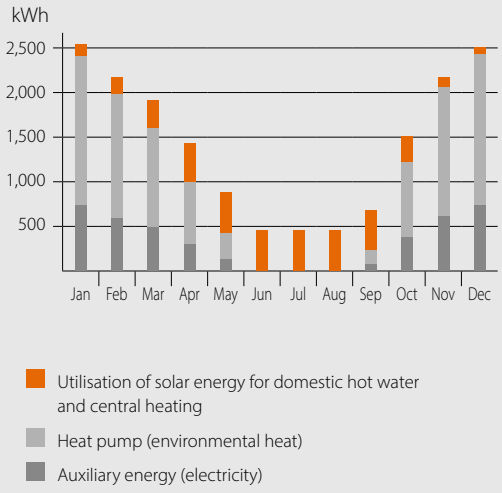
Combine your indoor unit with a thermal store to achieve the ultimate comfort at home.
› Fresh water principle: receive domestic hot water on demand while eliminating the risk of contamination and sedimentation
› Optimal domestic hot water performance: the low temperature evolution enables high tapping performance
› Fit for the future: possibility to integrate with renewable solar energy and other heat sources, e.g. fireplace
› Lightweight and robust build of the unit combined with the cascade principle offers flexible installation options

Built for small and large homes, customers can choose between a pressureless and a pressurised hot water system.

Pressureless (drain-back) solar system
EBSH-D, EBSX-D
› The solar collectors are only filled with water when sufficient heating is provided by the sun
› The pumps in the control and pump unit switch on briefly and fill the collectors with storage tank water
› After filling, water circulation is maintained by the remaining pump

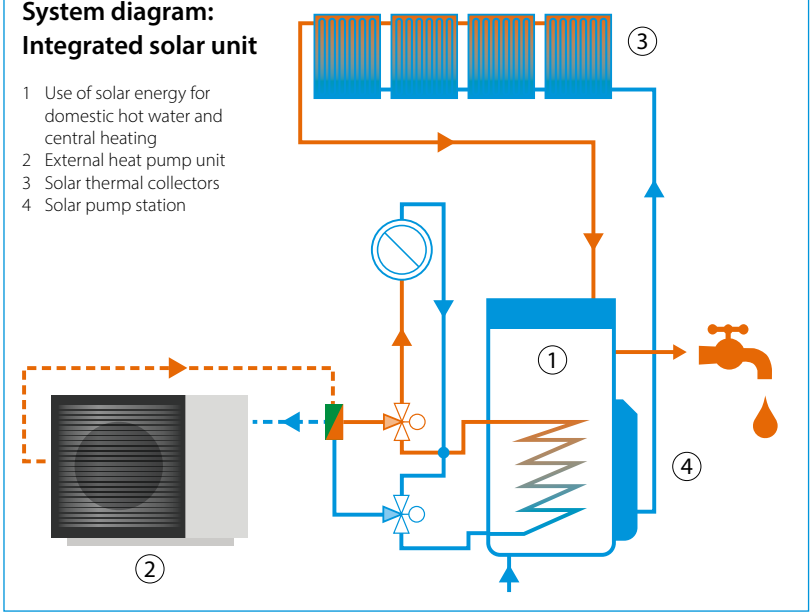
Pressurised solar system
EBSHB-D, EBSXB-D
› System is filled with heat transfer fluid with the correct amount of antifreeze to avoid freezing in winter
› System is pressurised and sealed

Monthly energy consumption of an average detached house



System diagram: Integrated solar unit

1 Use of solar energy for domestic hot water and central heating
2 External heat pump unit
3 Solar thermal collectors
4 Solar pump station



Daikin Altherma 3 R ECH$_2$O

Floor standing air-to-water heat pump for **heating and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Solar support of domestic hot water with pressureless (drain-back) solar system
- Heat loss is reduced to a minimum thanks to the high quality insulation
- App control possible for managing heating, hot water and cooling operation
- Heat pump operation down to -25°C
- Possible to connect to photovoltaïc solar panels to provide energy for your heat pump

up to A+++ up to A+ 60 °C R-32

011-1W0493
011-1W0494

Efficiency data				EBSH + ERLA	11P30D + 11DV/W	11P50D + 11D/W	16P30D + 14DV/W	16P50D + 14DV/W	16P30D + 16DV7/W7	16P50D + 16DV7/W7
Space heating	Average climate water outlet 55°C	General	SCOP		3.23		3.22		3.32	
			ηs (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	
			ηs (Seasonal space heating efficiency)	%	182		181			
			Seasonal space heating eff. class		A+++					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COPdhw			2.73 / 2.75	3.05 / 3.10	2.73 / 2.75	3.05 / 3.10	2.73 / 2.75	3.05 / 3.10
		ηwh (water heating efficiency)		%	115 / 116	126 / 128	115 / 116	126 / 128	115 / 116	126 / 128
		Water heating energy efficiency class			A+					

Indoor Unit				EBSH	11P30D	11P50D	16P30D	16P50D	16P30D	16P50D
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit		HeightxWidthxDepth	mm	1,893 x 594 x 680	1,910 x 792 x 817	1,893 x 594 x 680	1,910 x 792 x 817	1,893 x 594 x 680	1,910 x 792 x 817
Weight	Unit			kg	93	114	93	114	93	114
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	18 ~ 60					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	10 ~ 60					
Sound power level	Nom.			dBA	44.70					
Sound pressure level	Nom.			dBA	36.80					

Outdoor Unit				ERLA	11DV3/W1	14DV3/W1	16DV37/W17
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_2Eq	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 ECH$_2$O

Floor standing air-to-water heat pump for **bivalent heating and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Bivalent system: combinable with a secondary heat source
- Heat loss is reduced to a minimum thanks to the high quality insulation
- App control possible for managing heating and hot water operation
- Heat pump operation down to -25°C

up to A+++ A+ 60 °C R-32

011-1W0493
011-1W0494

Efficiency data				EBSHB + ERLA	11P30D + 11DV/W	11P50D + 11DV/W	16P30D + 14DV/W	16P50D + 14DV/W	16P30D + 16DV7/W7	16P50D + 16DV7/W7
Space heating	Average climate water outlet 55°C	General	SCOP		3.23		3.22		3.32	
			ηs (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	
			ηs (Seasonal space heating efficiency)	%	182		181			
			Seasonal space heating eff. class		A+++					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COPdhw			2.73 / 2.75	3.05 / 3.10	2.73 / 2.75	3.05 / 3.10	2.73 / 2.75	3.05 / 3.10
		ηwh (water heating efficiency)		%	115 / 116	126 / 128	115 / 116	126 / 128	115 / 116	126 / 128
		Water heating energy efficiency class			A+					

Indoor Unit				EBSHB	11P30D	11P50D	16P30D	16P50D	16P30D	16P50D
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit		HeightxWidthxDepth	mm	1,893 x 594 x 680	1,910 x 792 x 817	1,893 x 594 x 680	1,910 x 792 x 817	1,893 x 594 x 680	1,910 x 792 x 817
Weight	Unit			kg	94	117	94	117	94	117
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	18 ~ 60					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	10 ~ 60					
Sound power level	Nom.			dBA	44.70					
Sound pressure level	Nom.			dBA	36.80					

Outdoor Unit				ERLA	11DV3/W1	14DV3/W1	16DV37/W17
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_2Eq	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 ECH$_2$O

Floor standing air-to-water heat pump for **heating, cooling and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating, hot water and cooling
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Solar support of domestic hot water with pressureless (drain-back) solar system
- Heat loss is reduced to a minimum thanks to the high quality insulation
- App control possible for managing heating, hot water and cooling operation
- Outdoor unit extracts heat from the outdoor air, even at -25°C
- Possible to connect to photovoltaïc solar panels to provide energy for your heat pump

up to A+++ A+ 60 °C R-32

011-1W0493
011-1W0494

Efficiency data				EBSX + ERLA	11P30D + 11DV/W	11P50D + 11DV/W	16P30D + 14DV/W	16P50D + 14DV/W	16P30D + 16DV7/W7	16P50D + 16DV7/W7
Space heating	Average climate water outlet 55°C	General	SCOP		3.27		3.26		3.35	
			ηs (Seasonal space heating efficiency)	%	128				131	
			Seasonal space heating eff. class		A++					
	Average climate water outlet 35°C	General	SCOP		4.72		4.68			
			ηs (Seasonal space heating efficiency)	%	186		184			
			Seasonal space heating eff. class		A+++					
Domestic hot water heating	General		Declared load profile		L	XL	L	XL	L	XL
	Average climate		COPdhw		2.73 / 2.75	3.05 / 3.10	2.73 / 2.75	3.05 / 3.10	2.73 / 2.75	3.05 / 3.10
			ηwh (water heating efficiency)	%	115 / 116	126 / 128	115 / 116	126 / 128	115 / 116	126 / 128
			Water heating energy efficiency class		A+					

Indoor Unit				EBSX	11P30D	11P50D	16P30D	16P50D	16P30D	16P50D
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit		HeightxWidthxDepth	mm	1,893 x 594 x 680	1,910 x 792 x 817	1,893 x 594 x 680	1,910 x 792 x 817	1,893 x 594 x 680	1,910 x 792 x 817
Weight	Unit			kg	93	114	93	114	93	114
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
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	44.70					
Sound pressure level	Nom.			dBA	36.80					

Outdoor Unit			ERLA	11DV3/W1	14DV3/W1	16DV37/W17
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_2Eq	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 ECH$_2$O

Floor standing air-to-water heat pump for **bivalent heating, cooling and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Bivalent system: combinable with a secondary heat source
- Heat loss is reduced to a minimum thanks to the high quality insulation
- App control possible for managing heating and hot water operation
- Heat pump operation down to -25°C

up to A+++ A+ 60 °C R-32

011-1W0493
011-1W0494

Efficiency data				EBSXB + ERLA	11P30D + 11DV/W	11P50D + 11DV/W	16P30D + 14DV/W	16P50D + 14DV/W	16P30D + 16DV7/W7	16P50D + 16DV7/W7
Space heating	Average climate water outlet 55°C	General	SCOP		3.27		3.26		3.35	
			ηs (Seasonal space heating efficiency)	%	128				131	
			Seasonal space heating eff. class		A++					
	Average climate water outlet 35°C	General	SCOP		4.72		4.68			
			ηs (Seasonal space heating efficiency)	%	186		184			
			Seasonal space heating eff. class		A+++					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COPdhw			2.73 / 2.75	3.05 / 3.10	2.73 / 2.75	3.05 / 3.10	2.73 / 2.75	3.05 / 3.10
		ηwh (water heating efficiency)		%	115 / 116	126 / 128	115 / 116	126 / 128	115 / 116	126 / 128
		Water heating energy efficiency class			A+					

Indoor Unit				EBSXB	11P30D	11P50D	16P30D	16P50D	16P30D	16P50D
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit		HeightxWidthxDepth	mm	1,893 x 594 x 680	1,910 x 792x817	1,893 x 594 x 680	1,910 x 792 x 817	1,893 x 594 x 680	1,910 x 792 x 817
Weight	Unit			kg	94	117	94	117	94	117
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
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	-25 ~ 35					
Sound power level	Nom.			dBA	44.70					
Sound pressure level	Nom.			dBA	36.80					

Outdoor Unit			ERLA	11DV3/W1	14DV3/W1	16DV37/W17
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		

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DESIGN AWARD 2018

reddot award 2018 winner

R-32 BLUEVOLUTION

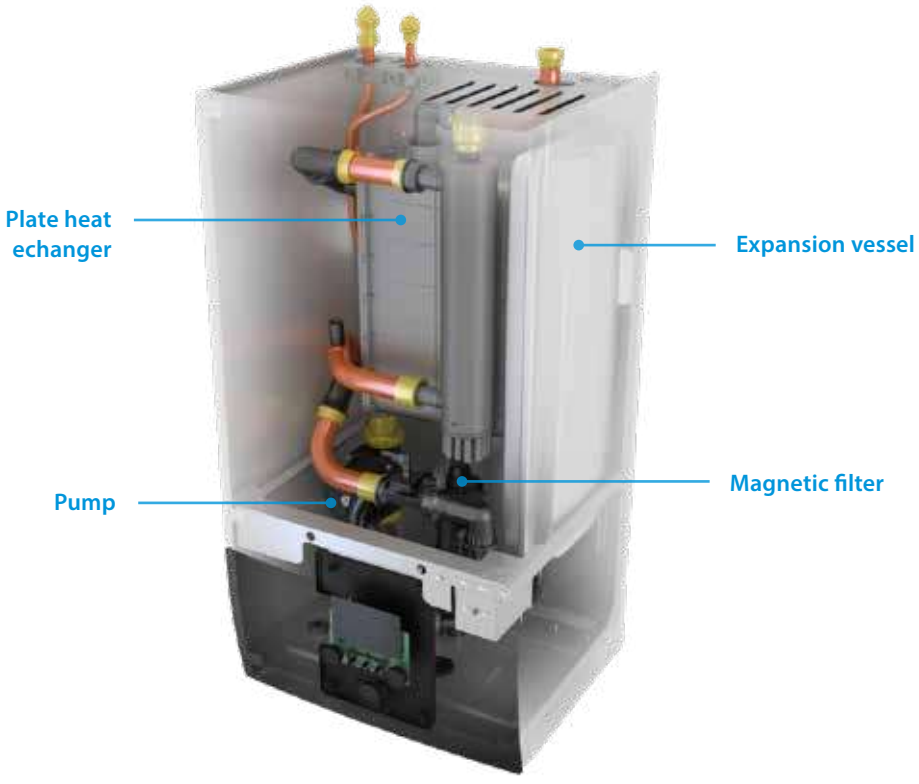
Daikin Altherma 3 R W Wall mounted unit

Why choose Daikin wall mounted unit?

The Daikin Altherma 3 split wall mounted unit offers heating and cooling with high flexibility for a quick and easy installation, with an optional connection to deliver domestic hot water.

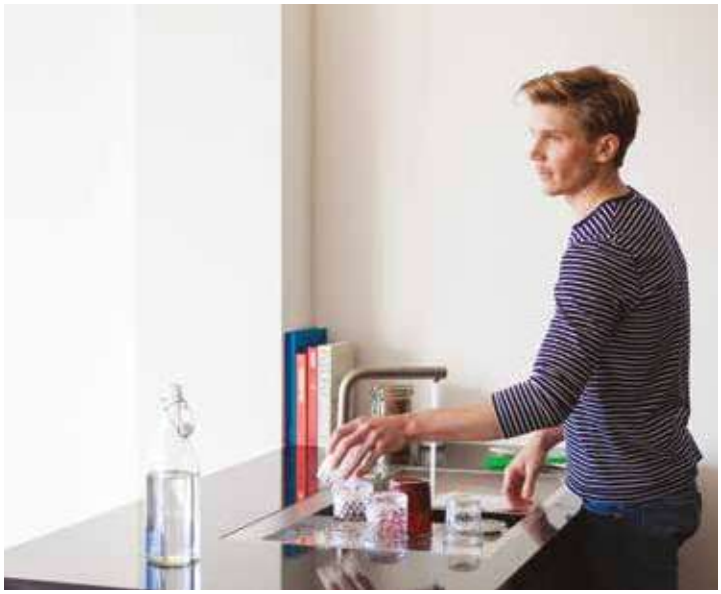
High flexibility for installation and domestic hot water connection

- 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
- Compact dimensions allows for small installation space, as almost no side clearances are required
- The unit's sleek design blends in with other household appliances
- Combine with a stainless steel or ECH_2O thermal store



Flexibility in providing domestic hot water

If the end user requires hot water and installation height is limited, a separate stainless steel tank provides the required installation flexibility.



ECH_2O thermal store range: additional hot water comfort

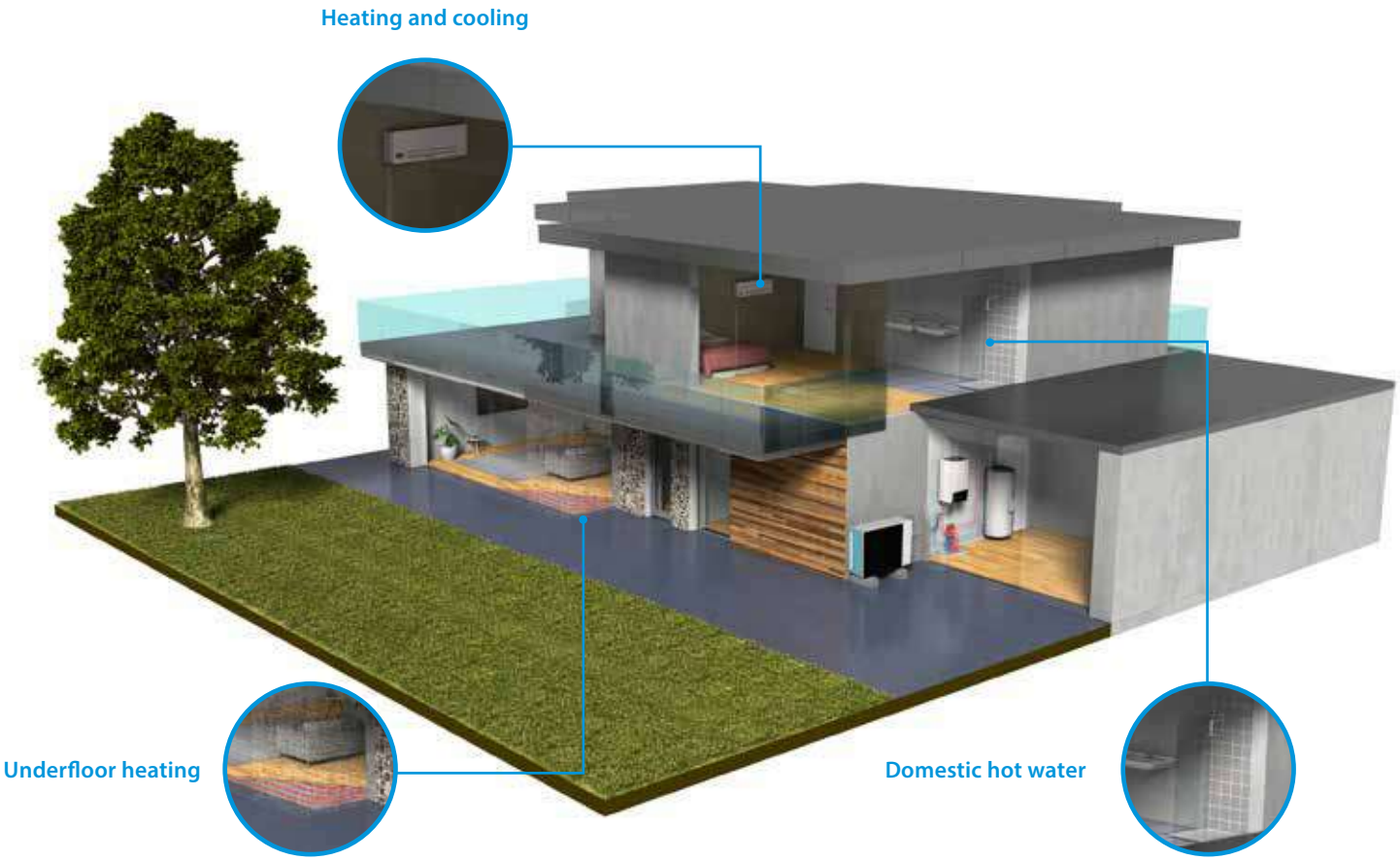
Combine your wall mounted unit with a thermal store for additional hot water comfort.

- Fresh water principle: receive domestic hot water on demand while eliminating the risk of contamination and sedimentation
- Optimal domestic hot water performance: with high tapping performance
- Fit for future possibility to integrate with renewable solar energy and other heat sources, e.g. fireplace
- Lightweight and robust build on the unit combined with cascade principle offers flexible installation options

Flexibility in providing space heating

Daikin Altherma 3 R W is the prefect choice in case the end user is looking for space heating or cooling while domestic hot water is provided by another system.

Example of installation with a stainless steel domestic hot water tank.



Daikin Altherma 3 R W

Wall mounted **heating only** air-to-water heat pump

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
- Compact dimensions allows for small installation space, as almost no side clearances are required
- The unit's sleek design blends in with other household appliances
- Combine with a stainless steel tank or ECH$_2$O thermal store
- Heat pump operation down to -25°C

up to A+++ | 60 °C | R-32

011-1W0498
011-1W0499
011-1W0500

Efficiency data				EBBH + ERLA	11D6V + 11DV/W	11D9W + 11DV/W	16D6V + 14DV/W	16D9W + 14DV/W	16D6V + 16DV7/W7	16D9W + 16DV7/W7
Space heating	Average climate water outlet 55°C	General	SCOP		3.23		3.22		3.32	
			ηs (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	
			ηs (Seasonal space heating efficiency)	%	182		181			
			Seasonal space heating eff. class		A+++					

Indoor Unit				EBBH	11D6V	11D9W	16D6V	16D9W	16D6V	16D9W
Casing	Colour				White + Black					
	Material				Resin, sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm	840 x 440 x 390					
Weight	Unit			kg	52.50		54.50			
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	18 ~ 60					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	10 ~ 60					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit			ERLA	11DV3/W1	14DV3/W1	16DV37/W17
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 W

Wall mounted **reversible** air-to-water heat pump

- 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
- Compact dimensions allows for small installation space, as almost no side clearances are required
- The unit's sleek design blends in with other household appliances
- Combine with a stainless steel tank or ECH$_2$O thermal store
- Heat pump operation down to -25°C

up to A+++ | 60 °C | R-32

011-1W0498
011-1W0499
011-1W0500

Efficiency data				EBBX + ERLA	11D6V + 11DV/W	11D9W + 11DV/W	16D6V + 14DV/W	16D9W + 14DV/W	16D6V + 16DV7/W7	16D9W + 16DV7/W7
Space heating	Average climate water outlet 55°C	General	SCOP		3.27		3.26		3.35	
			ηs (Seasonal space heating efficiency)	%	128				131	
			Seasonal space heating eff. class		A++					
	Average climate water outlet 35°C	General	SCOP		4.72		4.68			
			ηs (Seasonal space heating efficiency)	%	186		184			
			Seasonal space heating eff. class		A+++					

Indoor Unit				EBBX	11D6V	11D9W	16D6V	16D9W	16D6V	16D9W
Casing	Colour				White + Black					
	Material				Resin, sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm	840 x 440 x 390					
Weight	Unit			kg	52.50		54.50			
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					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				ERLA	11DV3/W1	14DV3/W1	16DV37/W17
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_2Eq	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.

Thermal stores and tanks

Hot water heating installation options

Why choose a thermal store or domestic hot water tank?

Whether you only need hot water or you want to combine your hot water with solar systems, we offer you the best solutions to the highest levels of comfort, energy efficiency and reliability.

Thermal store

Stainless steel tank

☑ Domestic hot water tank

Stainless steel tanks

Comfort

› Available in 150, 180, 200, 250 and 300 litres in stainless steel EKHWS(U)-D

Efficiency

› High-quality insulation keeps heat loss to a minimum
› Efficient temperature heating: from 10°C to 50°C in only 60 minutes
› Available as an integrated solution or separate tank

Reliability

› At necessary intervals, the unit can heat up water up to 60°C to prevent the risk of bacteria growth

The ECH$_2$O thermal store range

ECH$_2$O thermal store: additional hot water comfort

Combine your monobloc with a thermal store to achieve the ultimate comfort at home.
› Fresh water principle: receive domestic hot water on demand while eliminating the risk of contamination and sedimentation
› Optimal domestic hot water performance: the low temperature evolution enables high tapping performance
› Fit for the future: possibility to integrate with renewable solar energy and other heat sources, e.g. fireplace
› Lightweight and robust build of the unit combined with the cascade principle offers flexible installation options

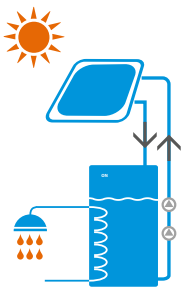
Built for small and large homes, customers can choose between a pressureless and a pressurised hot water system.

Efficiency

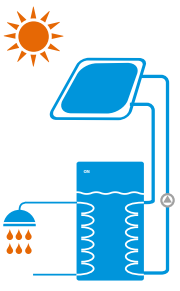
› Fit for the future: maximise renewable energy sources
› Intelligent Heat Storage Management: ensures continuous heating during defrost mode, and uses stored heat for space heating
› High-quality insulation keeps heat loss to a minimum

Reliability

› Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no water loss through the safety valve



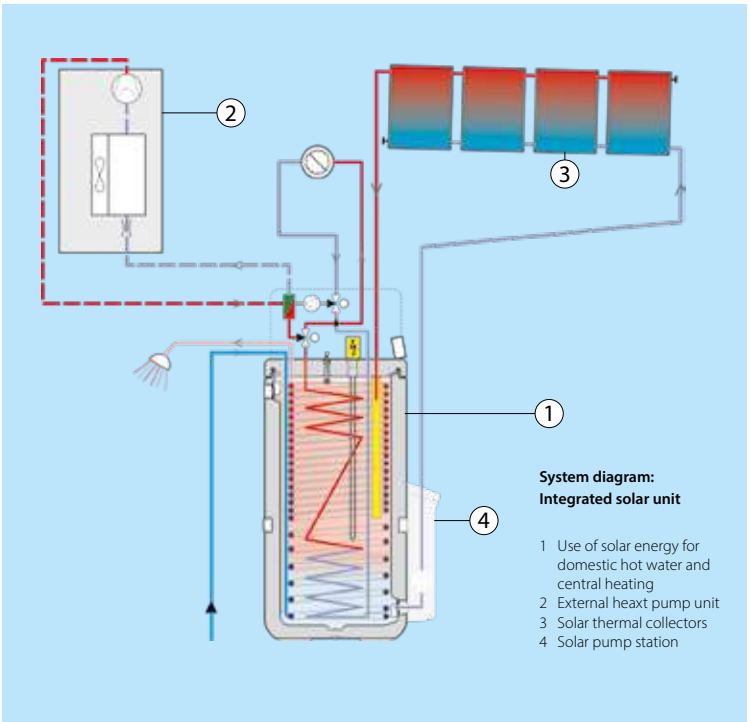
Drain-back solar system



Pressurised solar system

Pressureless (drain-back) solar system
› The solar collectors are only filled with water when sufficient heating is provided by the sun
› The pumps in the control and pump unit switch on briefly and fill the collectors with storage tank water
› After filling, water circulation is maintained by the remaining pump

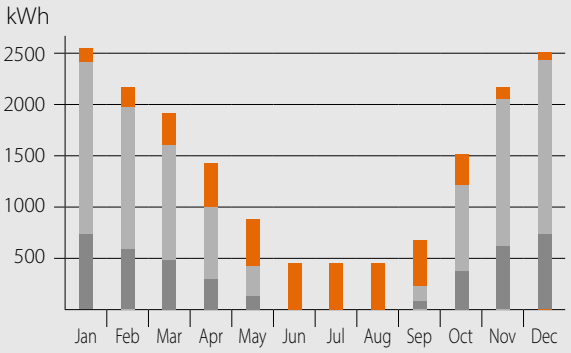
Pressurised solar system
› System is filled with heat transfer fluid with the correct amount of antifreeze to avoid freezing in winter
› System is pressurised and sealed



System diagram: Integrated solar unit

1 Use of solar energy for domestic hot water and central heating
2 External heaxt pump unit
3 Solar thermal collectors
4 Solar pump station

Monthly energy consumption of an average detached house



Utilisation of solar energy for domestic hot water and central heating
Heat pump (environmental heat)
Auxiliary energy (electricity)

Thermal store

Plastic domestic hot water tank with solar support

- Tank designed for connection with pressurised thermal solar system
- Tank designed for connection with drainback thermal solar system
- Available in 300 and 500 liters
- Large hot water storage tank to provide domestic hot water at any time
- Heat loss is reduced to a minimum thanks to the high quality insulation
- Space heating support possible (500l tank only)

EKHWP500B

EKHWP300B

Accessory				EKHWP	300B	500B	300PB	500PB
Casing	Colour				Traffic white (RAL9016) / Dark grey (RAL7011)			
	Material				Impact resistant polypropylene			
Dimensions	Unit	Width	mm		595	790	595	790
		Depth	mm		615	790	615	790
Weight	Unit	Empty	kg		58	82	58	89
Tank	Water volume		l		294	477	294	477
	Material				Polypropylen			
	Maximum water temperature		°C		85			
	Insulation	Heat loss	kWh/24h		1.5	1.7	1.5	1.7
	Energy efficiency class				B			
	Standing heat loss		W		64	72	64	72
	Storage volume		l		294	477	294	477
Heat exchanger	Domestic hot water	Quantity			1			
		Tube material			Stainless steel (DIN 1.4404)			
		Face area	m^2		5.600	5.800	5.600	5.900
		Internal coil volume	l		27.1	28.1	27.1	28.1
		Operating pressure	bar		6			
		Average specifc thermal output	W/K		2,790	2,825	2,790	2,825
	Charging	Quantity			1			
		Tube material			Stainless steel (DIN 1.4404)			
		Face area	m^2		3	4	3	4
		Internal coil volume	l		13	18	13	18
		Operating pressure	bar		3			
		Average specifc thermal output	W/K		1,300	1,800	1,300	1,800
	Pressurised solar	Average specifc thermal output	W/K		-		390.00	840.00
	Auxiliary solar heating	Tube material			-	Stainless steel (DIN 1.4404)	-	Stainless steel (DIN 1.4404)
		Face area	m^2		-	1	-	1
		Internal coil volume	l		-	4	-	4
		Operating pressure	bar		-	3	-	3
		Average specifc thermal output	W/K		-	280	-	280

Domestic hot water tank

Stainless steel domestic hot water tank

- Available in 150, 180, 200, 250 and 300 litres in stainless steel EKHWS(U)-D

EKHWS(U)-D

Accessory				EKHWS	150(U)D3V3	180(U)D3V3	200(U)D3V3	250(U)D3V3	300(U)D3V3
Casing	Colour				Neutral white				
	Material				Epoxy coated steel / Epoxy-coated mild steel				
Weight	Unit	Empty	kg		45	50	53	58	63
Tank	Water volume		l		145	174	192	242	292
	Material				Stainless steel (EN 1.4521)				
	Maximum water temperature		°C		75				
	Insulation	Heat loss	kWh/24h		1.1	1.2	1.3	1.4	1.6
	Energy efficiency class				B				
	Standing heat loss		W		45	50	55	60	68
	Storage volume		l		145	174	192	242	292
Heat exchanger	Domestic hot water	Quantity			1				
		Tube material			Stainless steel (EN 1.4521)				
		Face area	m^2		1.050	1.400	1.800		
		Internal coil volume	l		4.9	6.5	8.2		
		Operating pressure	bar		10				
Booster heater	Capacity		kW		3				
Power supply	Phase/Frequency/Voltage		Hz/V		1~/50/230				

Daikin Altherma HPC Floor standing model

The floor standing heat pump convector impresses with its low sound operations, and its slim design that received the RedDot Award 2020. Next to heating and cooling, the unit can also provide indoor air quality control.

Why Indoor Air Quality Matters

Indoor Air Quality (IAQ) refers to the air quality in a building or structure, breathed in every day by the building's occupants.

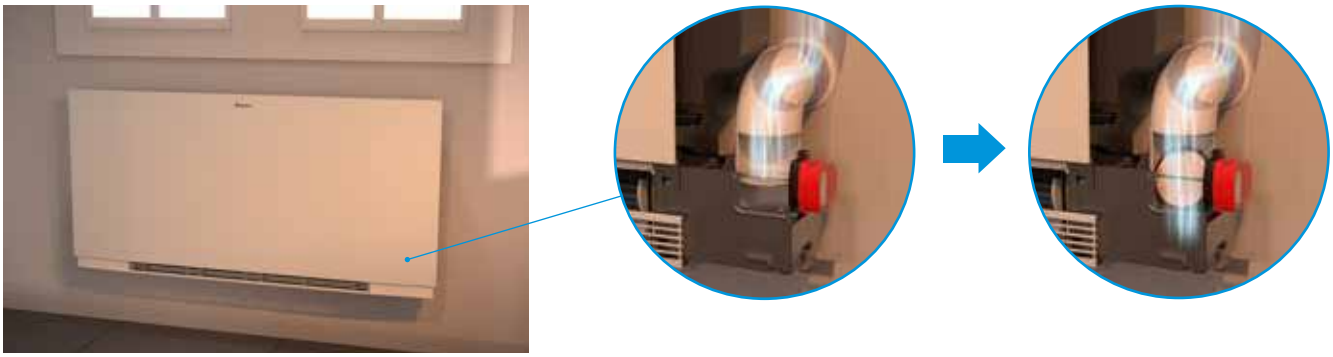
When planning new residential buildings, schools, offices or light commercial buildings, many things must be considered. Besides structural factors, there are also the topics of heating, cooling and something often neglected: indoor air quality.

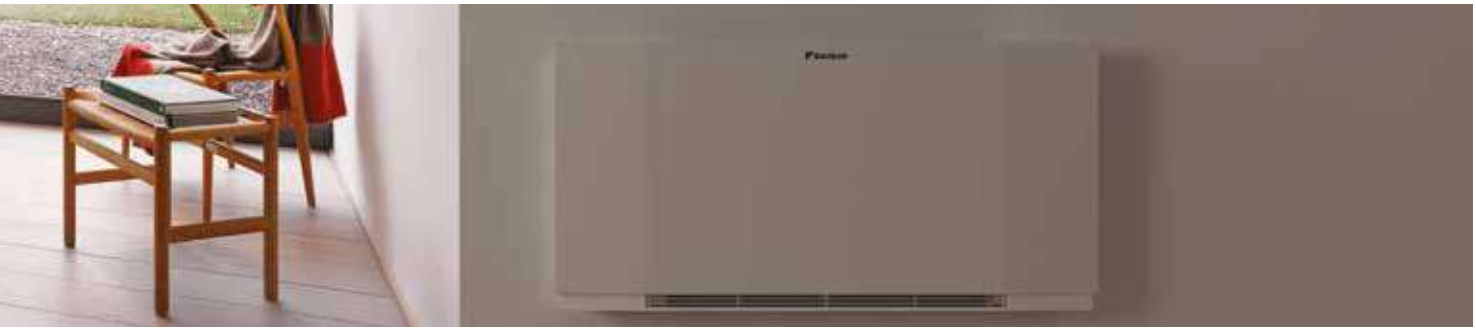
Did you know that the indoor air we breathe, whether at home, at the office, or in a hotel room could in fact be much more polluted than the air outside?

› 90% of our lives is spent indoors
› Indoor air quality can be 2 to 5 times worse than outdoor air quality because of pollutants, such as pollen, bacteria, etc.

How does Daikin Altherma HPC ensure a healthy and comfortable indoor air quality?

When a pollutant level of indoor air is reached, the IAQ sensor opens a damper, which allows fresh air to come in. The incoming fresh air is immediately heated or cooled (depending on the demand) by the heat pump convector. In this way the indoor air remains of good quality while comfort is ensured.

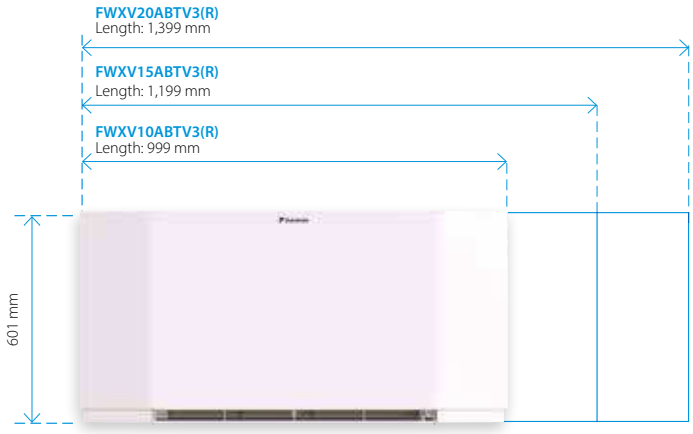




Slim design

reddot winner 2020

The floor standing Daikin Altherma HPC has a depth of only 135 mm that fits any house or apartment. Its optimised design was rewarded with the Reddot Design Award 2020.

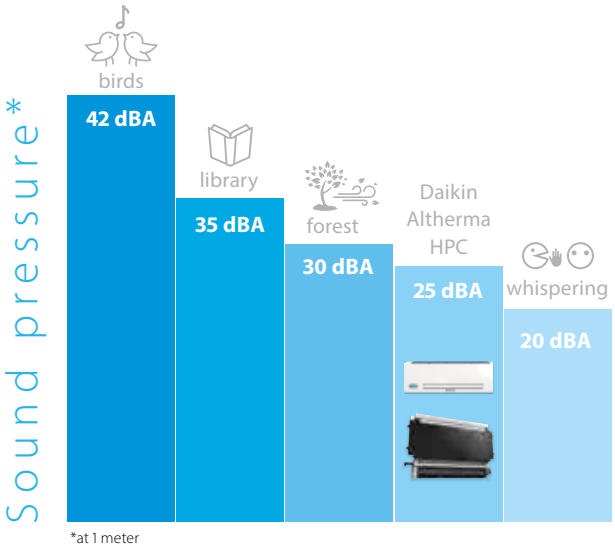


Fast and high capacity

The Daikin Altherma HPC combines the advantages of residential underfloor heating and radiators. It delivers high-capacity heating or cooling faster and can be set 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. For the wall mounted and concealed units, the sound pressure measures 25dB(A) at 1m when the fan is on low-speed setting. Even lower sound pressure in super-silent mode (night mode).



*at 1 meter

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 settings

EKWHCTRL1

- Wall controller
- Fully modulating
- In combination with EKWHCTRL0

EKPCBO

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

EKWHCTRL1A

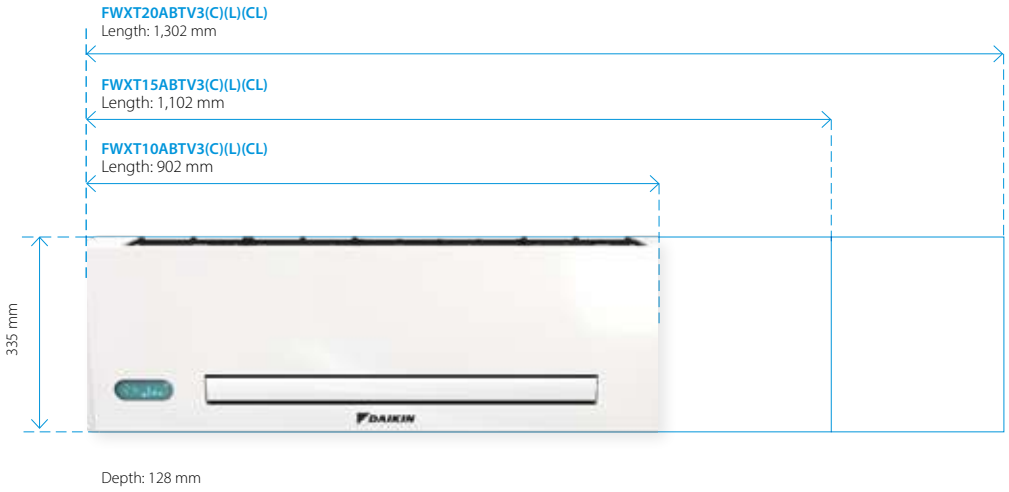
- Wall controller
- Fully modulating
- In combination with EKWHCTRL0
- Includes indoor air quality sensor

Wall-mounted model

Thanks to its slim design, our wall-mounted unit blends in with your interior discreetly while helping you save valuable floor space.

Slim design

Daikin Altherma HPC is a compact unit made of a design metal casing including all valves.



Controls

Choice of:

› Fully modulating controller allowing for remote control of the unit.
› Infrared remote controller and on-board touch panel.

EKWHCTRL1

› Wall controller
› Fully modulating
› For models FWXT-ABTV3(L)

Infrared remote controller

› Remote
› Fully modulating
› For models FWXT-ABTV3C(L)

Compactness

1 Slim depth
The depth of 128 mm is an outstanding technical achievement that ensures a perfect fit in any home.

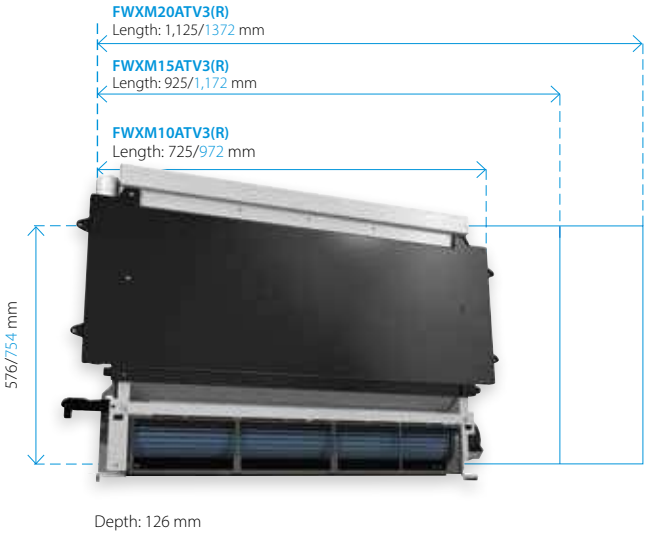
2 More space for valves
Ease of installation: the space for hydraulic valves is wide and easily accessible.

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.

Concealed model

Forget about your heating or cooling installation altogether: our concealed model vanishes into the wall or ceiling for visual comfort while preserving its unique heating and cooling capabilities.

Slim design



Blue dimensions are for the front cover.

Controls

EKWHCTRL1

- Wall controller
- Fully modulating
- In combination with EKWHCTRL0

Flexible installation

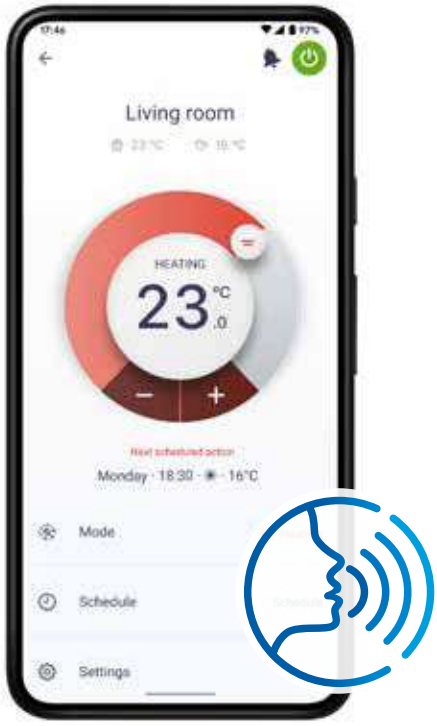
Daikin Altherma HPC can be installed in four different ways, allowing you to install it in almost all conditions. The unit can be positioned horizontally or vertically. For horizontal, in-ceiling installation, three different possibilities are offered:

- Horizontal cover panel and vertical grille for air outlet
- Horizontal intake grille and vertical grille for air outlet
- Horizontal intake and outlet grilles

Onecta App

Now available with voice control

The Onecta App is for those who live their life on the go and who want to manage their heating system from their smartphone.



onecta

NEW

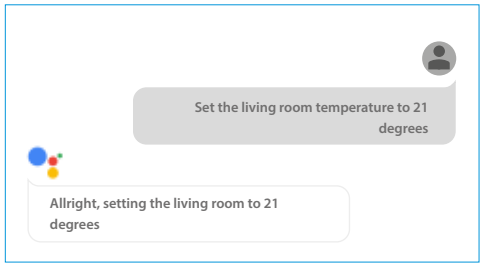
Voice control

To provide users with even more comfort and ease, the Onecta App now offers voice control. This hands-free feature cuts down on clicks to manage units faster than ever before.

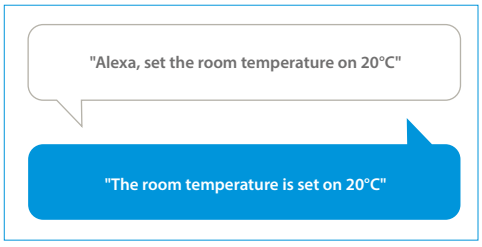
Cross-functional and multilingual, voice control pairs well with any smart device, including Google Assistant and Amazon Alexa.

works with the Google Assistant

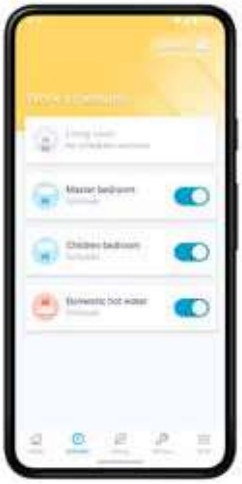
amazon alexa



Example of using the voice control via Google Assistant



Example of using the voice control via Amazon Alexa



Schedule

Set up a programme outlining when the system should operate, and create up to six actions per day.

- ☑ Schedule room temperature and operation mode
- ☑ Enable holiday mode to save costs

Control

Customise the system to fit your lifestyle and year-round comfort levels.

- ☑ Change room and domestic hot water temperature
- ☑ Turn on powerful mode to boost hot water production

Monitor

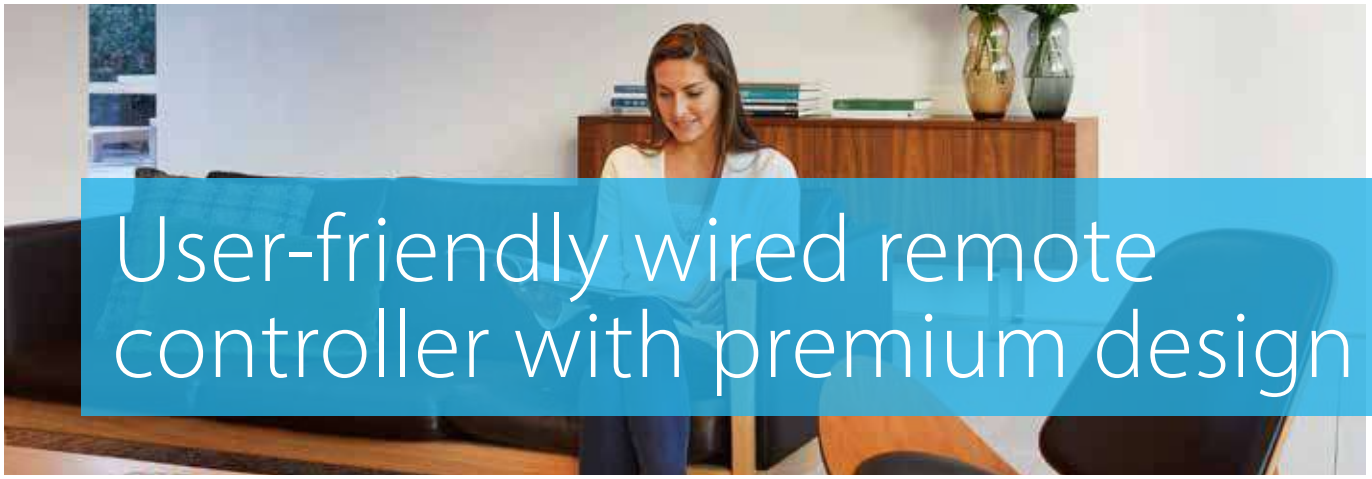
Receive a thorough overview of how the system is performing and how much energy it consumes.

- ☑ Check the status of the heating system
- ☑ Access energy consumption graphs (day, week, month)

Function availability depends on the system type, configuration and operation mode.
The app functionality is only available if both the Daikin system and the app have a reliable internet connection.

Available on the App Store GET IT ON Google Play

Scan the QR code to download the app now



User-friendly wired remote controller with premium design

Madoka. The beauty of simplicity

Madoka

Black
RAL 9005 (matt)
BRC1HHDK

White
RAL9003 (glossy)
BRC1HHDW

Silver
RAL 9006 (metallic)
BRC1HHDS

Madoka combines refinement and simplicity

› Sleek and elegant design
› Intuitive touch-button control
› Three colours to match any interior
› Compact: measures only 85 x 85 mm

Easy update via Bluetooth

It is strongly recommended to make sure that the user interface is up to date. To update the software or check if updates are available, all you need is a mobile device and the Madoka Assistant app. The app is available on Google Play and in the App Store.

GET IT ON Google Play

Available on the App Store

Award-winning design

Madoka received an IF Design Award and Reddot Product Design Award for its innovative design. These awards represent two of the most prestigious and largest design competitions in the world.

reddot award 2018
winner

DESIGN AWARD 2018

Stand By Me,
a journey to customer satisfaction

It's time to relax. With your customer's new Daikin installation and Stand By Me service program, you can rest assured they are benefiting from the best comfort, energy efficiency, usability and service available on the market. Stand By Me eliminates your clients' worries and provides them with a free, extended warranty, quick follow-up from Daikin service providers, and additional warranties for specific parts.

Get on board on our train to ultimate customer satisfaction

On our underground map you can discover all the tools we offer to Daikin installers to help them from the first point of contact with a new client, to the maintenance and repair after installation.

1

Heating Solutions Navigator
Provide the best fit solution for your customers homes

Web portal · Professionals

2

Daikin e-Care
Access to registration, configuration and trouble shooting

Mobile app · Professionals

3

Stand By Me
Manage your installation database and offer comfort and service to your customer

Web portal · Professionals

4

Onecta App
End-user app to control the residential unit

Mobile app · Consumer

Discover the new features

We keep investing in the support towards our installers. With your Daikin account, you have access to Stand By Me and the Heating Solutions Navigator online. Use the same account to access the Daikin e-Care app. The tools offer now new features, check it out!

Heating Solutions Navigator
Newest functions:
underfloor heating, Fan Coil selection tool and ventilation quotation tool

Onecta App
Newest function:
voice control thanks to Amazon Alexa or Google Assistant

Stand By Me
Newest function:
20 installer settings for remote monitoring (SBM Pro)

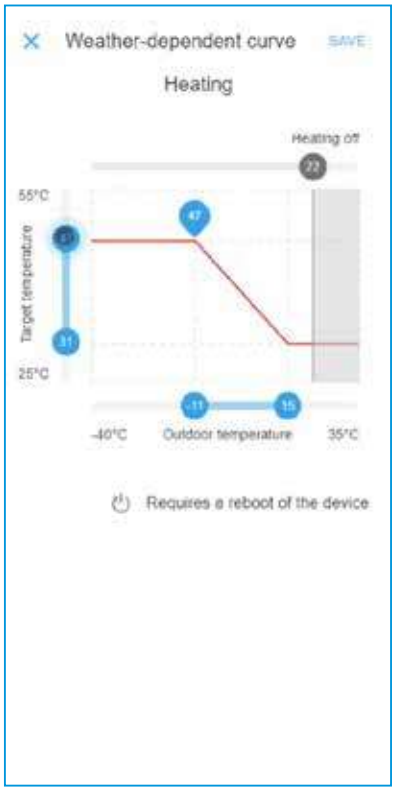
Daikin e-Care
Newest function:
20 installer settings to solve problems remotely

Error notification and 20 installer settings for remote support through SBM Pro and e-care app

From the professional portal, installers can activate the remote monitoring allowing them to supervise your installation on multiple parameters, from their location. They will get an automatic notification in case there is something wrong with the installation. By changing certain settings they can improve your comfort immediately.
Save time and get a better support, thanks to these new features.

- ☑ Space heating/cooling
- ☑ Main zone & Additional zone (LWT)
- ☑ Domestic hot water
- ☑ Room (RT)
- ☑ Installer – Error handling

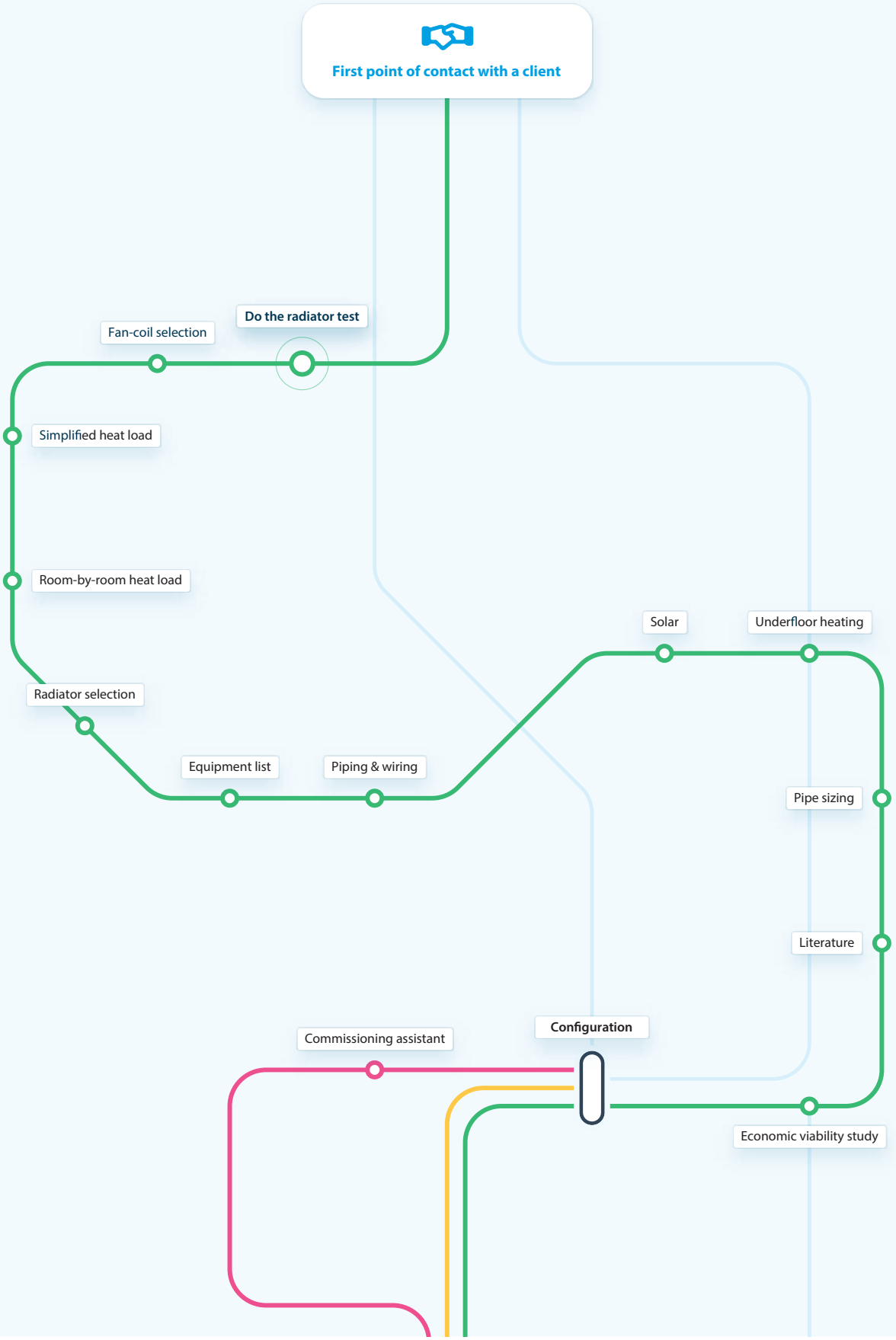
Adjust a room setpoint remotely

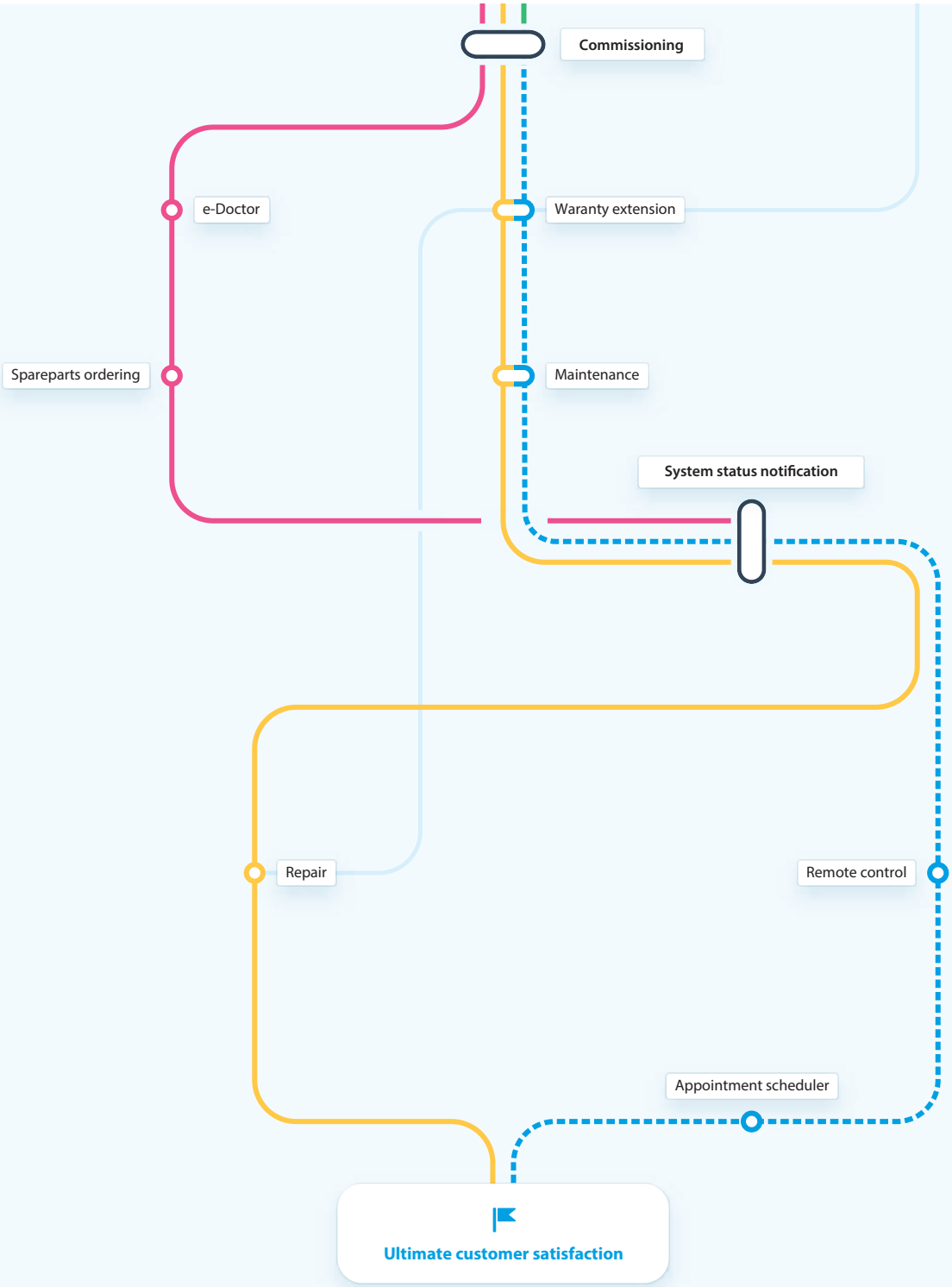


Adjust the weather-dependent curve remotely

All about the Heating Solutions Navigator

The Heating Solutions Navigator is a digital toolbox developed for Daikin professionals with the aim to assist in providing the best fit solution for your customers homes. With this tool you can configure your installation, create custom made piping & wiring diagrams, set the configuration on your installation and much more.





Heating Solutions Navigator

- Do the radiator test
- Fan-coil selection
- Simplified Heat load
- Room by Room heat load
- Commissioning assistant
- Equipment list
- Piping & wiring
- Solar
- Underfloor heating
- Pipe sizing
- Literature
- Economic viability study
- Configuration
- Commissioning

e-Care Mobile App

- Commissioning assistant
- Commissioning
- e-Doctor
- Spareparts ordering
- System status notifications

Stand By Me

- Configuration
- Commissioning
- Waranty extension
- System status notifications

Daikin Residential controller app

- Warranty extension
- Maintenance
- Remote control
- Appointment scheduler

Combination table and options

Type	Description	Material name	Floor standing integrated stainless steel tank			
			H/O		Reversible	
			11 class	16 class	11 class	16 class
			EBVH11S18D6V	EBVH16S18D6V	EBVX11S18D6V	EBVX16S18D6V
			EBVH11S18D9W	EBVH16S18D9W	EBVX11S18D9W	EBVX16S18D9W
			EBVH11S23D6V	EBVH16S23D6V	EBVX11S23D6V	EBVX16S23D6V
			EBVH11S23D9W	EBVH16S23D9W	EBVX11S23D9W	EBVX16S23D9W
Outdoor unit		ERLA11DV3/W1	●		●	
		ERLA14DV3/W1		●		●
		ERLA16DV37/W17		●		●
Controller	Madoka wired room thermostat	BRC1HHDK/S/W	●	●	●	●
	Wireless room thermostats	EKRTR	●	●	●	●
	Wired digital thermostat	EKRTWA	●	●	●	●
	WLAN module	BRP069A71	●	●	●	●
	WLAN cartridge	BRP069A78	●	●	●	●
	Wired digital thermostat	EKWCTRDI1V3	●	●	●	●
	Wired analog thermostat	EKWCTRAN1V3	●	●	●	●
	Valve actuator	EKWCVATR1V3	●	●	●	●
	Wired underfloor heating base station	EKWUFHTA1V3	●	●	●	●
	Universal centarlized controller	EKCC8-W, DCOM-LT/IO, LT/MB	●	●	●	●
Domestic hot water	Stainless steel tank	EKHWS(U)150D3V3				
		EKHWS(U)180D3V3				
		EKHWS(U)200D3V3				
		EKHWS(U)250D3V3				
		EKHWS(U)300D3V3				
	Polypropylene tank	EKHWP300B				
		EKHWP500B				
		EKHWP300PB				
		EKHWP500PB				
	Third party tank kit	EKHY3PART				
		EKHY3PART2				
Sensors	External sensor for EKRTR room thermostat	EKRTETS	● (5)	● (5)	● (5)	● (5)
	High voltage smart grid relay kit	EKRELSG	●	●	●	●
	Remote indoor temperature sensor	KRCS01-1	● (6)	● (6)	● (6)	● (6)
	Remote outdoor temperature sensor	EKRSCA1	● (6)	● (6)	● (6)	● (6)
Bizone kits	Generic Bizone kit (PCB only)	EKMIKPOA	●	●	●	●
	Generic Bizone kit	EKMIKPHA	●	●	●	●
Other options	Digital I/O PCB	EKRP1HBA	● (7)	● (7)	● (7)	● (7)
	Demand PCB	EKRP1AHT	●	●	●	●
	PC USB cable	EKPCCAB4	●	●	●	●
ECH$_2$O options	Inline BUH - connection kit	EKECBUCO2AF				
	Inline BUH - 3kW, for *3V (1N~, 230 V, 3 kW)	EKECBUAF3V				
	Inline BUH - 6kW, for *6V (1N~, 230 V, 6 kW)	EKECBUAF6V				
	Inline BUH - 9kW, for *9WN (3N~, 400 V, 9 kW)	EKECBUAF9W				
	Caleffi sludge and magnetite separator SAS1	156021				
	Biv Connector Kit	EKECBIVCO2AF				
	DB connector Kit	EKECDBCO2AF				

(1) Dedicated connection kit: EKEPRHLT3HX.
(2) Dedicated connection kit: ETBH: EKEPRHLT5H / ETBX: EKEPRHLT5X.
(3) EKHY3PART can be used if you have a tank in which you can insert the thermistor.
(4) EKHY3PART2 can needs to be used if you have a tank in which you can't insert a thermistor.
(5) Can only be used in combination with the wireless room thermostat EKRTR.
(6) Only one sensor can be connected: indoor or outdoor.
(7) Additional relays to allow bivalent control in combination with external room thermostat are field supply.
(8) Only 1 Backup heater can be connected on one unit: 3 or 6* or 9 kW (*No 6T1-model applicable). EKECBUCO1AF is needed to connect the backup heater to the main unit.
(9) Only bivalent models.
(10) Only needed for 300 models. 500 models do not need DB connector kit to install DB solar system.

	Floor standing integrated ECH_2O				Wall mounted			
Bizone	Drain-back		Bivalent		H/O		Reversible	
16 class	11 class	16 class	11 class	16 class	11 class	16 class	11 class	16 class
EBVZ16S18D6V	EBSH11P30D	EBSH16P30D	EBSHB11P30D	EBSHB16P30D				
EBVZ16S18D9W	EBSH11P50D	EBSH11P50D	EBSHB11P50D	EBSHB16P50D				
EBVZ16S23D6V	EBSX11P30D	EBSX11P30D	EBSXB11P30D	EBSXB16P30D	EBBH11D6V	EBBH16D6V	EBBX11D6V	EBBX16D6V
EBVZ16S23D9W	EBSX11P50D	EBSX11P50D	EBSXB11P50D	EBSXB16P50D	EBBH11D9W	EBBH16D9W	EBBX11D9W	EBBX16D9W
●	●		●		●		●	
●		●		●		●		●
●		●		●		●		●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
					●	●	●	●
					●	●	●	●
					●	●	●	●
					●	●	●	●
					●	●	●	●
					● (1)	● (1)	● (1)	● (1)
					● (2)	● (2)	● (2)	● (2)
					● (1)	● (1)	● (1)	● (1)
					● (2)	● (2)	● (2)	● (2)
					● (3)	● (3)	● (3)	● (3)
					● (4)	● (4)	● (4)	● (4)
● (5)	● (5)	● (5)	● (5)	● (5)	● (5)	● (5)	● (5)	● (5)
●	●	●	●	●	●	●	●	●
● (6)	● (6)	● (6)	● (6)	● (6)	● (6)	● (6)	● (6)	● (6)
● (6)	● (6)	● (6)	● (6)	● (6)	● (6)	● (6)	● (6)	● (6)
	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●
● (7)					● (7)	● (7)	● (7)	● (7)
●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●
	●	●	●	●				
	● (8)	● (8)	● (8)	● (8)				
	● (8)	● (8)	● (8)	● (8)				
	● (8)	● (8)	● (8)	● (8)				
	●	●	●	●				
			● (9)	● (9)				
	● (10)	● (10)						

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