

# Daikin Altherma 3 R

Product leaflet 2022



The heat pump standard, upgraded



ERGA-EV(H)(7) series

# Why choose Daikin Altherma air-to-water heat pump?

## How does it work?

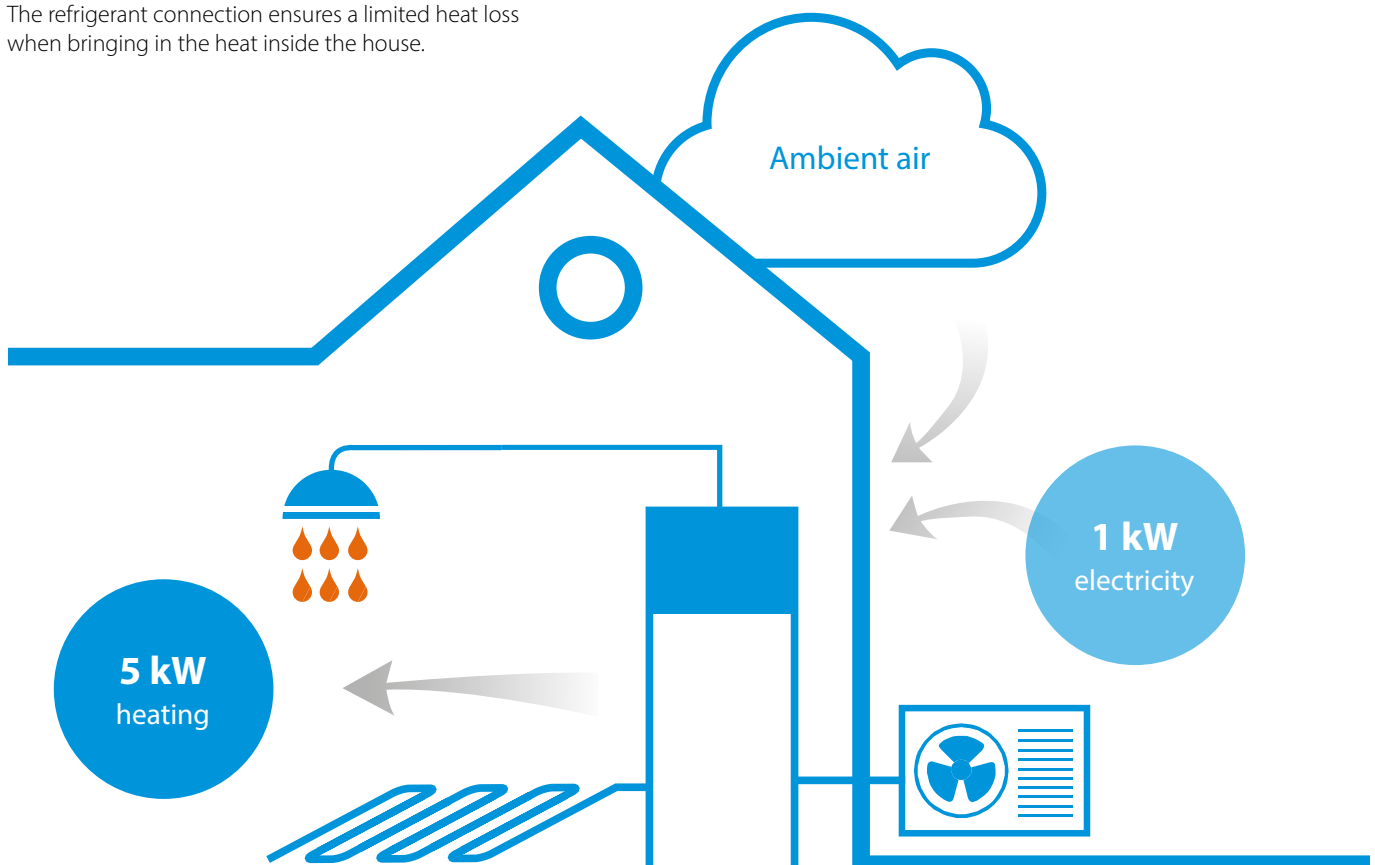
The outdoor unit extracts energy from the air to provide heating, cooling and hot water. They collect up to 75% of their energy in the air, while the rest is provided by electricity. The air-to-water heat pump relies on a compressor and a refrigerant to transfer the energy from the air to the water, and heat the water up to your needs and to deliver it into your house.

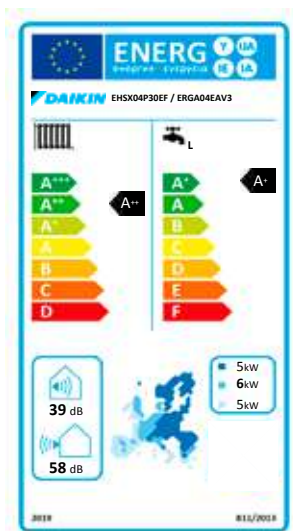
## Low temperature heat pump

Ideal for new building applications, low temperature heat pumps are particularly fitting with underfloor heating and heat pump convectors requiring a lower temperature to provide an equivalent comfort as radiators.

## Refrigerant connection

Refrigerant split heat pumps are made of an outdoor unit extracting the air and an indoor unit which is the command center on which you control your system. The refrigerant connection ensures a limited heat loss when bringing in the heat inside the house.





## Highest energy label

Daikin heat pumps comply with the most recent regulations established by the European Union by holding an energy label with the highest scores, up to A+++ in space heating (35°C water outlet) and A+ in domestic water heating.

## Did you know?

Since 2015, all heating products must carry an energy label. The space heaters were rated from A++ to G and water heaters from A to G.

On 26th September 2019, new energy labels are available and rate the heating products from A+++ to D in space heating, and from A+ to F in water heating.





# Daikin Altherma 3 R

powered by Bluevolution with R-32 refrigerant

## Why choose Daikin Altherma 3 R?

Bluevolution technology combines very high efficient compressors developed by Daikin with the future of refrigerants: R-32.



### High performance

- › Leaving water temperature up to 65 °C at high efficiency
- › Suitable for both underfloor heating and radiators
- › Pedigree trademark in frost protection down to -25°C, ensuring reliable operation even in the coldest climates
- › The Bluevolution technology offers the highest performance:
  - Seasonal efficiency up to A+++
  - Heating efficiency up to a COP of 5,1 (at 7 °C/35 °C)
  - Domestic hot water efficiency up to COP of 3,3 (EN16147)
- › Available in 4, 6 and 8 kW

### Easy to install

- › Delivered ready to operate: all key hydraulic elements are factory mounted
- › All servicing can be done from the front and all pipings can be accessed at the top of the unit
- › Black and white modern design
- › Reduced installation time: the outdoor unit is tested and charged with refrigerant

### Easy commissioning

- › Integrated high resolution colour interface
- › Quick wizard allowing commissioning in maximum 9 easy steps to have the full system ready to operate
- › Configuration can take place remotely to upload later on the unit after the day of the installation

### Easy to control

- › The combined effect of the Daikin Altherma weather dependent set-point controls and its inverter compressor ensures consistent room temperatures at all times.
- › Control your system from anywhere at any time via the Daikin Residential Controller app. This online controller allows adjustment of home comfort levels to suit individual preferences while achieving further energy efficiencies. The R-32 Daikin Altherma 3 R range can also be fully integrated with other home control systems



Control with Onecta app



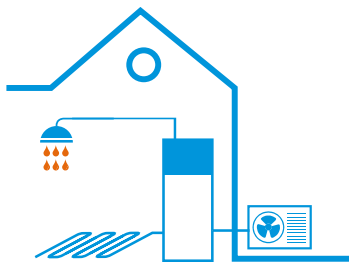
## Daikin Altherma 3 R offers a wide range to adapt to your customers needs

✓ **Best seasonal efficiencies** providing the highest savings on running costs

✓ Perfect fit for **new buildings**, as well as for low energy houses

✓ A leaving water temperature up to 65 °C makes it also **a suitable choice for refurbishments**

To cover all applications, the Daikin Altherma 3 R is available in 3 different indoor units



### Daikin Altherma 3 R F

#### Floor standing unit with integrated domestic hot water tank

Compact and yet 100% comfort guaranteed

- › All components and connections are factory mounted
- › Very small 595 x 625 mm installation footprint required
- › Minimum electrical input with constantly available hot water
- › Dedicated Bi-Zone models available: two temperature zones automatically regulated by the same indoor unit
- › Modern stylish design available in white or silver-grey
- › Compatible with the Daikin Residential Controller app
- › Voice control available

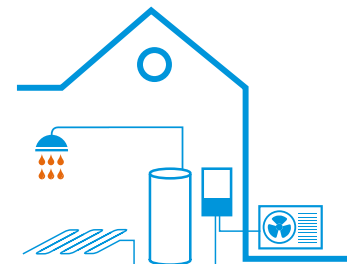


### Daikin Altherma 3 R ECH<sub>2</sub>O

#### Floor standing unit with integrated ECH<sub>2</sub>O tank

Integrated solar unit and domestic hot water tank

- › Maximising renewable energy with top comfort for hot water preparation
- › Solar support for domestic hot water
- › Lightweight plastic tank
- › Bivalent option: can be combined with a secondary heat source
- › App control available



### Daikin Altherma 3 R W

#### Wall mounted unit

High flexibility for installation and domestic hot water connection

- › Compact unit with small installation (almost no side clearance is required)
- › Can be combined with a space separate domestic hot water tank up to 500 litres, with or without solar support
- › Stylish modern design
- › Compatible with the Daikin Residential Controller app
- › Voice control available

# Daikin Altherma 3 R F

floor standing unit with integrated domestic hot water tank

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

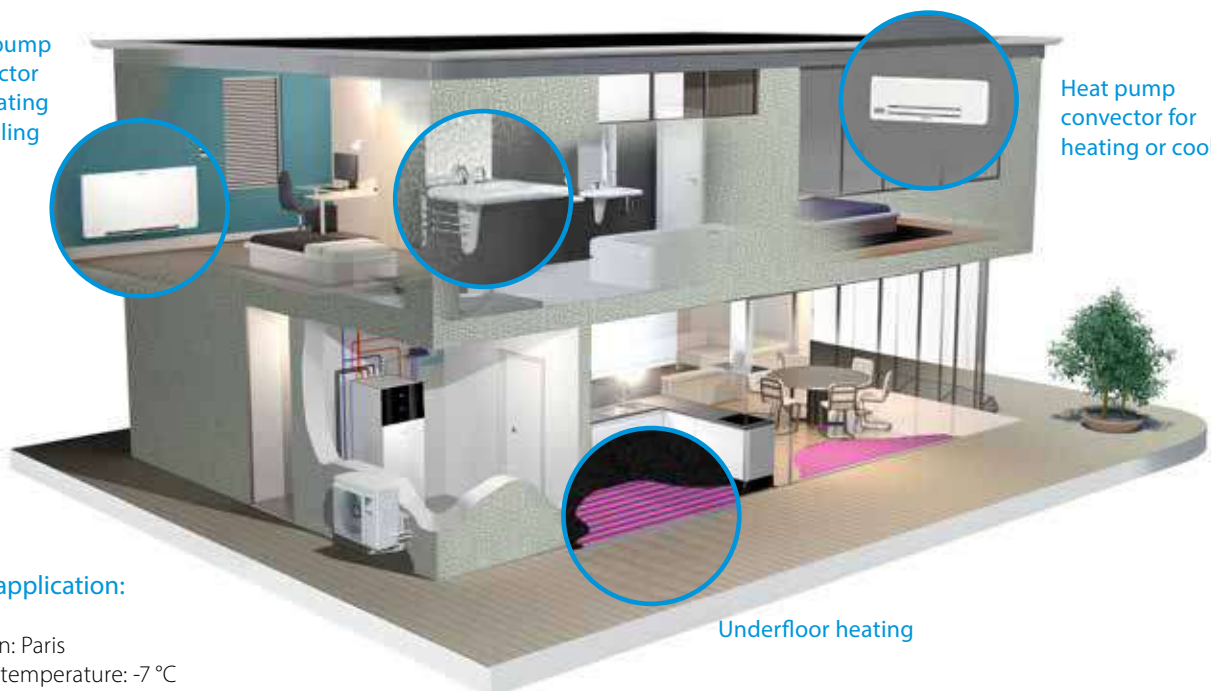
The Daikin Altherma 3 floor standing unit is the ideal system **to deliver heating, domestic hot water and cooling** for new build and low energy houses.

### 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 625 mm
- › Integrated back-up heater choice of 3, 6, 9 kW
- › Dedicated Bi-Zone models allowing temperature monitoring for 2 zones connect underfloor heating to radiators for optimise efficiency

Domestic hot water

Heat pump convector for heating or cooling



Heat pump convector for heating or cooling

Underfloor heating

### Typical application:

- › Location: Paris
- › Design temperature: -7 °C
- › Heat load: 7 kW
- › Heating off temperature: 16 °C

# All-in one design

## Reduces the installation footprint and height

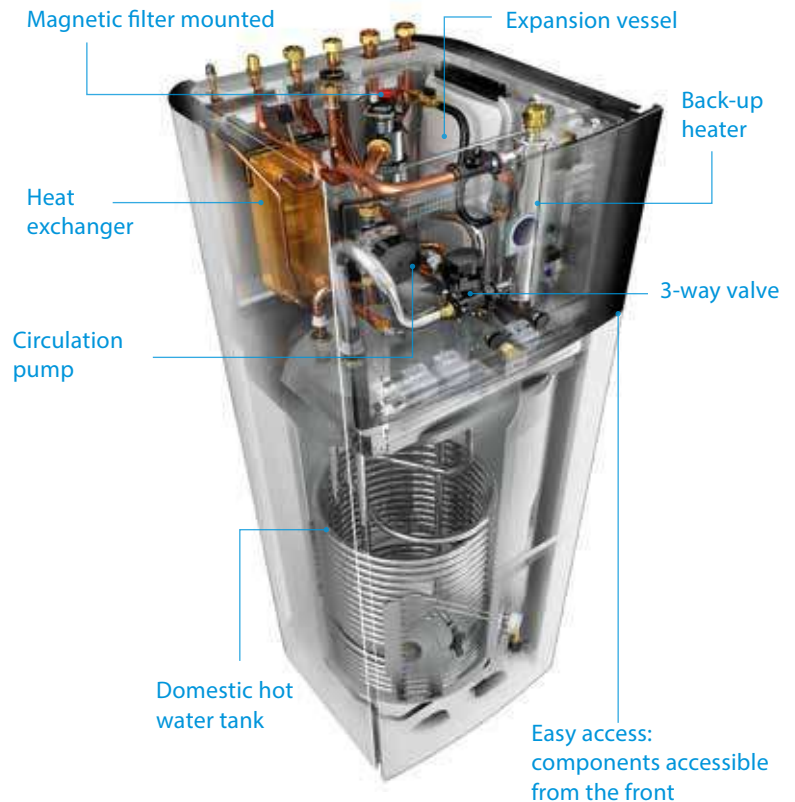
Compared to the traditional split version for a wall mounted indoor unit and a separate domestic hot water tank, the integrated indoor unit greatly reduces the installation space required.

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 a 180 L tank and 1,85 m for a 230 L tank, the required installation height is less than 2 m.

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 the 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!

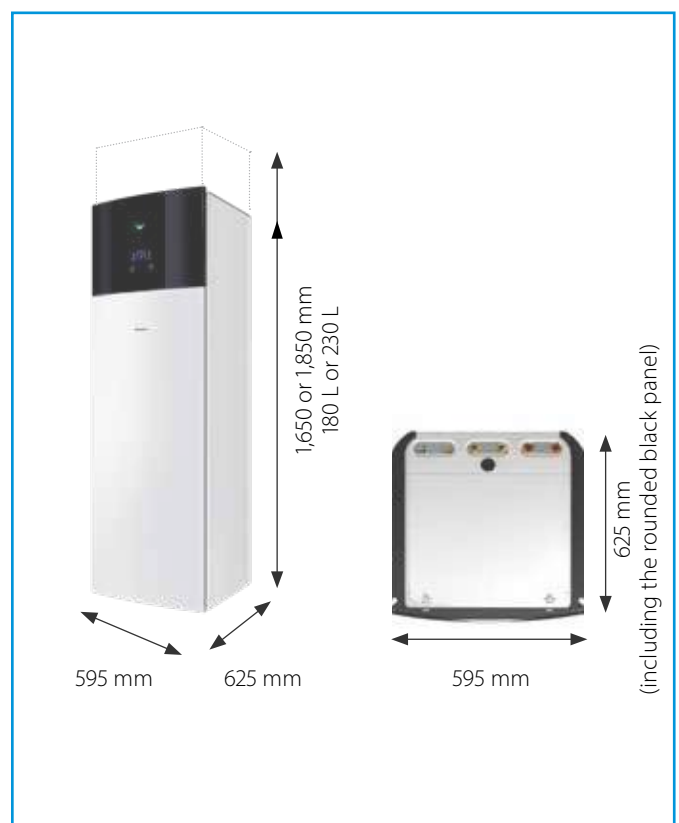
## Easy operation

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





# Floor standing unit with integrated ECH<sub>2</sub>O tank

The Daikin Altherma low temperature split integrated ECH<sub>2</sub>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 (500 l tank only)
- › Electronic management of both heat pump and ECH<sub>2</sub>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

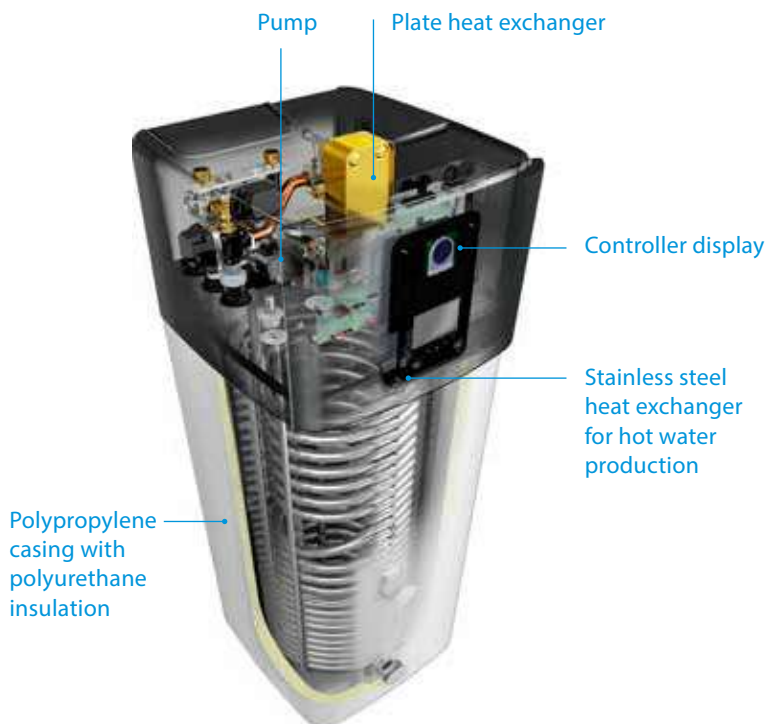
### Innovative and high-quality tank

- › 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<sub>2</sub>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.



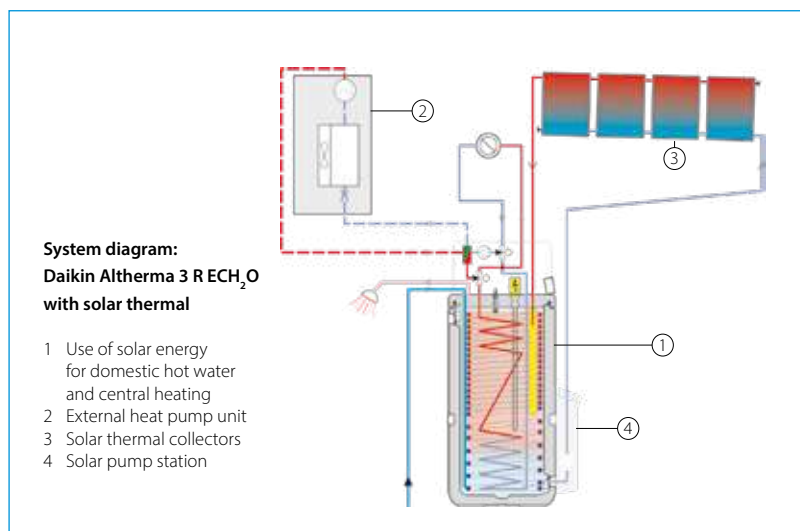
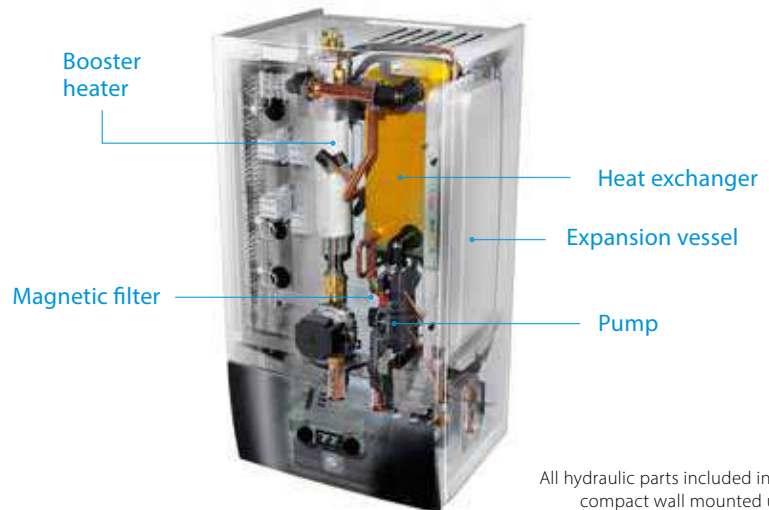
# Daikin Altherma 3 R

## Why choose Daikin wall mounted unit?

The Daikin Altherma 3 R W 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<sub>2</sub>O thermal store

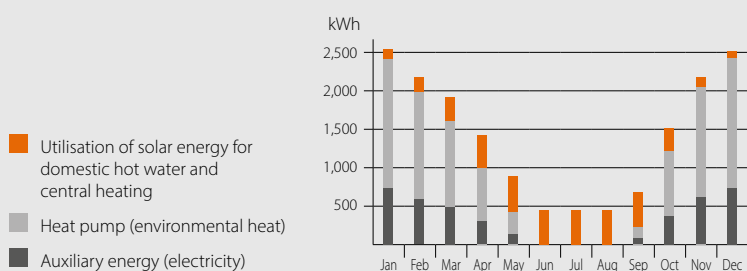


### ECH<sub>2</sub>O thermal store range: additional hot water comfort

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

### Monthly energy consumption of an average detached house



# 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.



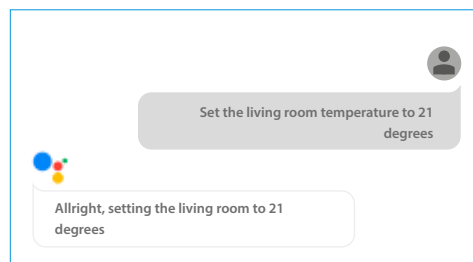
# onecta

**NEW**

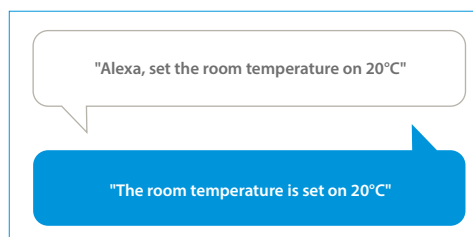
## Voice control

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.

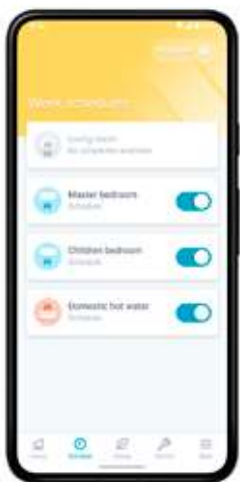
Cross-functional and multilingual, voice control pairs well with any smart device, including Google Assistant and Amazon Alexa.



Example of using the voice control via Google Assistant



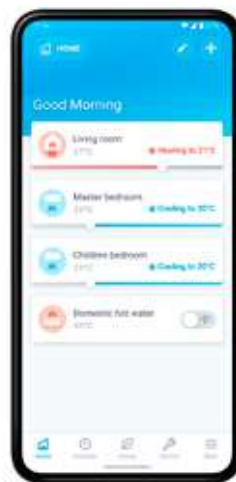
Example of using the voice control via Amazon Alexa



## Schedule

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

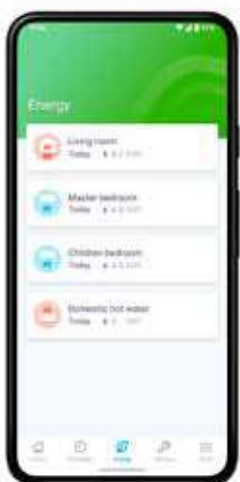
- Schedule room temperature and operation mode
- Enable holiday mode to save costs



## 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.



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.



### 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





# 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.



**HSN**  
PRO

### Heating Solutions Navigator

Provide the best fit solution for your customers homes

 Web portal  Professionals



### Daikin e-Care

Access to registration, configuration and trouble shooting

 Mobile app  Professionals



### Stand By Me

Manage your installation database and offer comfort and service to your customer

 Web portal  Professionals



### Onecta App

End-user app to control the residential unit

 Mobile app  Consumer

NEW

## 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



### Daikin e-Care

Newest function:  
20 installer settings to solve problems remotely



### Stand By Me

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



### Onecta App

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

NEW

## 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.

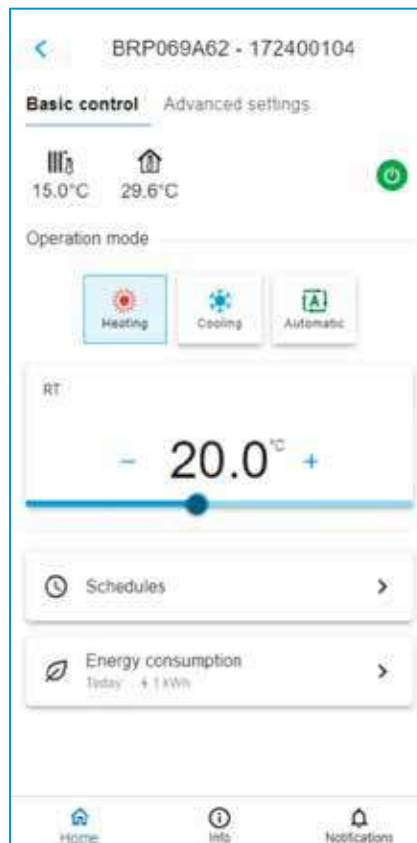
Space heating/cooling

Main zone & Additional zone (LWT)

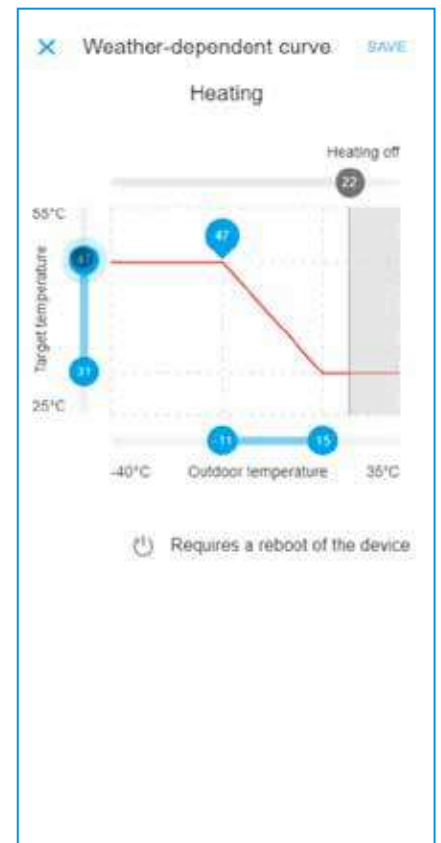
Domestic hot water

Room (RT)

Installer – Error handling



Adjust a room setpoint remotely

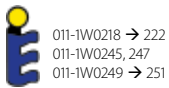


Adjust the weather-dependent curve remotely

# Daikin Altherma 3 R F

Floor standing air to water heat pump for heating, cooling and hot water; ideal for low energy houses

- › 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 choice of 3, 6, 9 kW
- › Outdoor unit extracts heat from the outdoor air, even at -25 °C
- › Compatible with the Onecta app
- › Voice control available



Efficiency data		EHVX + ERGA		04S18E3V/E6V + 04EV		04S23E3V/E6V + 04EV		08S18E6V/E9W + 06EVH		08S23E6V/E9W + 06EVH		08S18E6V/E9W + 08EVH7		08S23E6V/E9W + 08EVH7			
Heating capacity	Nom.	kW		4.30 (1) / 4.60 (2)				6.00 (1) / 5.90 (2)				7.50 (1) / 7.80 (2)					
Power input	Heating	Nom.	kW		0,850 (1) / 1,26 (2)				1,24 (1) / 1,69 (2)				1,63 (1) / 2,23 (2)				
Cooling capacity	Nom.	kW		4.86 (1) / 4.52 (2)				5.96 (1) / 5.09 (2)				6.25 (1) / 5.44 (2)					
Power input	Cooling	Nom.	kW		0.810 (1) / 1.36 (2)				1.06 (1) / 1.55 (2)				1.16 (1) / 1.73 (2)				
COP					5.10 (1) / 3.65 (2)				4.85 (1) / 3.50 (2)				4.60 (1) / 3.50 (2)				
EER					5.98 (1) / 3.32 (2)				5.61 (1) / 3.28 (2)				5.40 (1) / 3.14 (2)				
Space heating	Average climate water outlet 55 °C	General	SCOP	3.29				3.28				3.35					
			ηs (Seasonal space heating efficiency)	129				128				131					
			Seasonal space heating eff. class					A++									
			SCOP	4.54				4.52				4.61					
Space heating	Average climate water outlet 35 °C	General	SCOP	179				178				181					
			ηs (Seasonal space heating efficiency)					A+++									
			Seasonal space heating eff. class														
			SCOP	4.54				4.52				4.61					
Domestic hot water heating	General	Declared load profile		L		XL		L		XL		L		XL			
		Average climate	η <sub>wh</sub> (water heating efficiency)	127	125	134	133	125	133	125	133	125	133				
		Water heating energy efficiency class							A+								
Indoor Unit		EHVX		04S18E3V/E6V		04S23E3V/E6V		08S18E6V/E9W		08S23E6V/E9W		08S18E6V/E9W		08S23E6V/E9W			
Casing	Colour	White + Black															
	Material	Resin / Sheet metal															
Dimensions	Unit	Height x Width x Depth		mm		1,650 x 595 x 625		1,850 x 595 x 625		1,650 x 595 x 625		1,850 x 595 x 625		1,650 x 595 x 625		1,850 x 595 x 625	
Weight	Unit	kg		119		128		119		128		119		128		119	
	Water volume	l		180		230		180		230		180		230		180	
Tank	Maximum water temperature		°C						70								
	Maximum water pressure		bar						10								
	Corrosion protection								Pickling								
Operation range	Heating	Ambient	Min.~Max.	°C						5~30							
		Water side	Min.~Max.	°C						15~65							
	Cooling	Ambient	Min.~Max.	°CDB						5~35							
		Water side	Min.~Max.	°C						5~22							
	Domestic hot water	Ambient	Min.~Max.	°CDB						5~35							
		Water side	Max.	°C						70							
Sound power level	Nom.	dBA						42									
Sound pressure level	Nom.	dBA						28									
Outdoor Unit		ERGA		04EV		06EVH		08EVH7									
Dimensions	Unit	Height x Width x Depth		mm		740 x 884 x 388											
Weight	Unit	kg				58.5											
Compressor	Quantity					1											
	Type					Hermetically sealed swing compressor											
Operation range	Cooling	Min.~Max.	°CDB				10~43										
	Domestic hot water	Min.~Max.	°CDB				-25~35										
Refrigerant	Type					R-32											
	GWP					675.0											
	Charge	kg				1.50											
	Charge	TCO <sub>Eq</sub>				1.01											
Control							Expansion valve										
	Sound power level	Heating	Nom.	dBA		58		60		62							
Sound pressure level	Cooling	Nom.	dBA		61				62								
	Heating	Nom.	dBA		44		47		49								
Power supply	Cooling	Nom.	dBA		48		49		50								
	Current	Recommended fuses		A				25									

(1) Cooling Ta 35 °C - LWE 18 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 35 °C (DT = 5 °C) (2) Cooling Ta 35 °C - LWE 7 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 45 °C (DT = 5 °C). This product contains fluorinated greenhouse gases.



# Daikin Altherma 3 R ECH<sub>2</sub>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 photovoltaic solar panels to provide energy for your heat pump
- › Compatible with the Onecta app
- › Voice control available



011-IW0262 → 267

Efficiency data		EHSX + ERGA	04P30E + 04EV	04P50E + 04EV	08P30E + 06EVH	08P50E + 06EVH	08P30E + 08EVH7	08P50E + 08EVH7	
Heating capacity	Nom.	kW	4.30 (1) / 4.60 (2)		6.00 (1) / 5.90 (2)		7.50 (1) / 7.80 (2)		
Power input	Heating	Nom.	0.84 (1) / 1.26 (2)		1.24 (1) / 1.69 (2)		1.63 (1) / 2.23 (2)		
Cooling capacity	Nom.	kW	4.86 (1) / 4.52 (2)		5.96 (1) / 5.09 (2)		6.25 (1) / 5.44 (2)		
Power input	Cooling	Nom.	0.81 (1) / 1.36 (2)		1.06 (1) / 1.55 (2)		1.16 (1) / 1.73 (2)		
COP			5.10 (1) / 3.65 (2)		4.85 (1) / 3.50 (2)		4.60 (1) / 3.50 (2)		
EER			5.98 (1) / 3.32 (2)		5.61 (1) / 3.28 (2)		5.40 (1) / 3.14 (2)		
Space heating	Average climate water outlet 55 °C	General	SCOP	3.29		3.28		3.35	
			η <sub>s</sub> (Seasonal space heating efficiency)	%	129		128		131
		Seasonal space heating eff. class				A++			
		General	SCOP	4.54		4.52		4.61	
η <sub>s</sub> (Seasonal space heating efficiency)	%		179		178		181		
Seasonal space heating eff. class				A+++					
Domestic hot water heating	General	Declared load profile		L	XL	L	XL	L	XL
		Average climate	η <sub>wh</sub> (water heating efficiency)	%	118	125	118	125	118
Water heating energy efficiency class						A+			
Indoor Unit		EHSX	04P30E	04P50E	08P30E	08P50E	08P30E	08P50E	
Casing	Colour	Traffic white (RAL9016) / Traffic black (RAL9017)							
	Material	Impact resistant polypropylene							
Dimensions	Unit	Height x Width x Depth	mm	1,892 x 594 x 644	1,905 x 792 x 812	1,892 x 594 x 644	1,905 x 792 x 812	1,892 x 594 x 644	1,905 x 792 x 812
Weight	Unit		kg	77	107	77	107	77	107
Tank	Water volume		l	294	477	294	477	294	477
	Maximum water temperature		°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C					
		Water side	Min.~Max.	°C					
	Cooling	Ambient	Min.~Max.	°CDB					
		Water side	Min.~Max.	°C					
	Domestic hot water	Ambient	Min.~Max.	°CDB					
		Water side	Min.~Max.	°C					
Sound power level	Nom.		dBA	39					
Outdoor Unit		ERGA	04EV	06EVH	08EVH7				
Dimensions	Unit	Height x Width x Depth	mm						
Weight	Unit		kg						
Compressor	Quantity	1							
	Type	Hermetically sealed swing compressor							
Operation range	Cooling	Min.~Max.	°CDB						
	Domestic hot water	Min.~Max.	°CDB						
Refrigerant	Type	R-32							
	GWP	675.0							
	Charge	kg	1.50						
	Charge	TCO <sub>Eq</sub>	1.01						
Sound power level	Control	Expansion valve							
	Heating	Nom.	dBA	58	60	62			
Sound pressure level	Cooling	Nom.	dBA	61	62	49			
	Heating	Nom.	dBA	44	47	49			
Power supply	Cooling	Nom.	dBA	48	49	50			
	Heating	Nom.	dBA						
Name/Phase/Frequency/Voltage		Hz/V							
Current	Recommended fuses	A							

(1) Cooling Ta 35 °C - LWE 18 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 35 °C (DT = 5 °C) (2) Cooling Ta 35 °C - LWE 7 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 45 °C (DT = 5 °C). This product contains fluorinated greenhouse gases.

# Daikin Altherma 3 R W

Wall mounted **reversible** air-to-water heat pump ideal for low energy houses

- > 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<sub>2</sub>O thermal store
- > Outdoor unit extracts heat from the outdoor air, even at -25 °C
- > Compatible with the Onecta app
- > Voice control available



Efficiency data				EHBX + ERGA	04E6V + 04EV	08E6V + 06EVH	08E9W + 06EVH	08E6V + 08EVH7	08E9W + 08EVH7
Heating capacity	Nom.			kW	4.30 (1) / 4.60 (2)		6.00 (1) / 5.90 (2)		7.50 (1) / 7.80 (2)
Power input	Heating	Nom.		kW	0.850 (1) / 1.26 (2)		1.24 (1) / 1.69 (2)		1.63 (1) / 2.23 (2)
Cooling capacity	Nom.			kW	4.86 (1) / 4.52 (2)		5.96 (1) / 5.09 (2)		6.25 (1) / 5.44 (2)
Power input	Cooling	Nom.		kW	0.810 (1) / 1.36 (2)		1.06 (1) / 1.55 (2)		1.16 (1) / 1.73 (2)
COP					5.10 (1) / 3.65 (2)		4.85 (1) / 3.50 (2)		4.60 (1) / 3.50 (2)
EER					5.98 (1) / 3.32 (2)		5.61 (1) / 3.28 (2)		5.40 (1) / 3.14 (2)
Space heating	Average climate water outlet 55 °C	General	SCOP		3.29		3.28		3.35
			η <sub>s</sub> (Seasonal space heating efficiency)	%	129		128		131
	Average climate water outlet 35 °C	General	SCOP		4.54		4.52		4.61
			η <sub>s</sub> (Seasonal space heating efficiency)	%	179		178		181
					A+++				

Indoor Unit				EHBX	04E6V	08E6V	08E9W	08E6V	08E9W
Casing	Colour	White + Black							
	Material	Resin, sheet metal							
Dimensions	Unit	Height x Width x Depth	mm	840 x 440 x 390					
Weight	Unit	kg							
	Heating	Water side	Min.~Max.	°C	42.0		42.4	42.0	42.4
Operation range	Domestic hot water	Water side	Min.~Max.	°C	15 ~65				
					25~75				
Sound power level	Nom.	dBA							
Sound pressure level	Nom.	dBA							
					42				
					28				

Outdoor Unit				ERGA	04EV	06EVH	08EVH7
Dimensions	Unit	Height x Width x Depth	mm	740 x 884 x 388			
Weight	Unit	kg					
Compressor	Quantity	1					
	Type	Hermetically sealed swing compressor					
Operation range	Cooling	Min.~Max.	°CDB	10~43			
	Domestic hot water	Min.~Max.	°CDB	-25~35			
Refrigerant	Type	R-32					
	GWP	675.0					
	Charge	kg	1.50				
	Charge	TCO,Eq	1.01				
				Expansion valve			
Sound power level	Heating	Nom.	dBA	58		60	62
	Cooling	Nom.	dBA	61			62
Sound pressure level	Heating	Nom.	dBA	44		47	49
	Cooling	Nom.	dBA	48		49	50
Power supply	Name/Phase/Frequency/Voltage	Hz/V					
Current	Recommended fuses	A					
				V3/1N~/50/230			
				25			

(1) Cooling Ta 35 °C - LWE 18 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 35 °C (DT = 5 °C) (2) Cooling Ta 35 °C - LWE 7 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 45 °C (DT = 5 °C). This product contains fluorinated greenhouse gases.

Combination table and options			Floor standing integrated	ECH <sub>2</sub> O	Wall mounted
Type	Description	Material name			
Controls	Madoka wired room thermostat	BRC1HHDK/S/W	●	●	●
	Wireless room thermostat	EKRTR1	●	●	●
	Wireless room thermostat	EKRTR1B	●	●	●
	Wired gital thermostat	EKRTWA	●	●	●
	LAN adapter + PRV solar	BRP069A61		●	
	LAN adapter	BRP069A62		●	
	WLAN module	BRP069A71	●(1)	●(1)	●(1)
	WLAN cartridge	BRP069A78	●(1)	●(1)	●(1)
	Universal centralized controller for cascade	EKCC8-W DCOM-LT/IO,-LT/MB	●	●	●
Sensors	Remote indoor sensor	KRCS01-1	●(2)	●(2)	●(2)
	Remote outdoor sensor	EKRSCA1	●(2)	●(2)	●(2)
	External sensor for EKTRTR room thermostat	EKRTETS	●(3)	●(3)	●(3)
	External sensor for EKTRTRB room thermostat	EKRTETSB	●(4)	●(4)	●(4)
Bizone kits	Watts kit	BZKA7V3	●(5)		●
	Generic bizone kit	EKMIKPOAF		●	
	Generic bizone kit	EKMIKPHAF		●	
Domestic hot water	DHW tank	EKHWS(U)-D(3)V3			●
	Thermal stores	EKHWP-(P)B			●
	Third party tank kit	EKHY3PART			●
	Third party tank kit	EKHY3PART2			●(6)
Heat pump convector	Floor standing	FWXV15/20/25*	●(6)	●(6)	●(7)
	Wall mounted	FWXT15/20/25*	●(6)	●(6)	●(7)
	Concealed	FWXM15/20/25*	●(6)	●(6)	●(7)
Other options	Digital I/O PCB	EKRP1HBAA	●(7)		●(8)
	Demand PCB	EKRP1AHTA	●	●	●
	PC USB cable	EKPCCAB4	●	●	●
	Relay smart grid	EKRESLG	●	●	●
	Corner pipe bend kit	EKHVTC	●(5)		
Dedicated ECH <sub>2</sub> O options	Inline back-up heater (3kW, for *3V (1N~, 230 V, 3 kW)	EKECBUAF3V		●(9)	
	Inline back-up heater (6kW, for *6V (1N~, 230 V, 6 kW)	EKECBUAF6V		●(9)	
	Inline back-up heater (9kW, for *9WN (3N~, 400 V, 9 kW)	EKECBUAF9W		●(9)	
	Inline back-up heater connection kit	EKECBUCO3AF		●(9)	
	Dirt separator	156021		●	
	Bivalent connector kit	EKECBIVCO2AF			
	Drain-back connector kit	EKECDBCO2AF		●	
	Circulation stop valves (2 pcs)	165070		●	

- (1) W-LAN cartridge is supplied in the accessory bag of the unit => To be plugged in the SD-Slot on MMI-2 (In case bad reception of signal, the W-LAN cartridge can be removed and replace by WLAN module)
- (2) Only 1 sensor can be connected: indoor OR outdoor sensor.
- (3) Can only be used in combination with the wireless room thermostat EKTRTR(1).
- (4) Can only be used in combination with the wireless room thermostat EKTRTRB.
- (5) Combination possible except with floor standing bizone models.
- (6) EKHY3PART2 can needs to be used if you have a tank in which you can't insert a thermistor
- (7) Multi combination (quantity, depends on capacity class). EKVKHPC needs to be installed mandatory on heat pump convector (exception: LT- H/O).
- (8) Additional relays to allow bivalent control in combination with external room thermostat are field supply.
- (9) Only 1 Backup heater can be connected on one unit: 3 or 6\* or 9 kW (\*No 6T1-model applicable). EKECBUCO\*AF is needed to connect the backup heater to the main unit.



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