

Daikin Altherma 3 R

Product leaflet 2020



The heat pump standard, upgraded



ERGA-E series

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

How does it work?

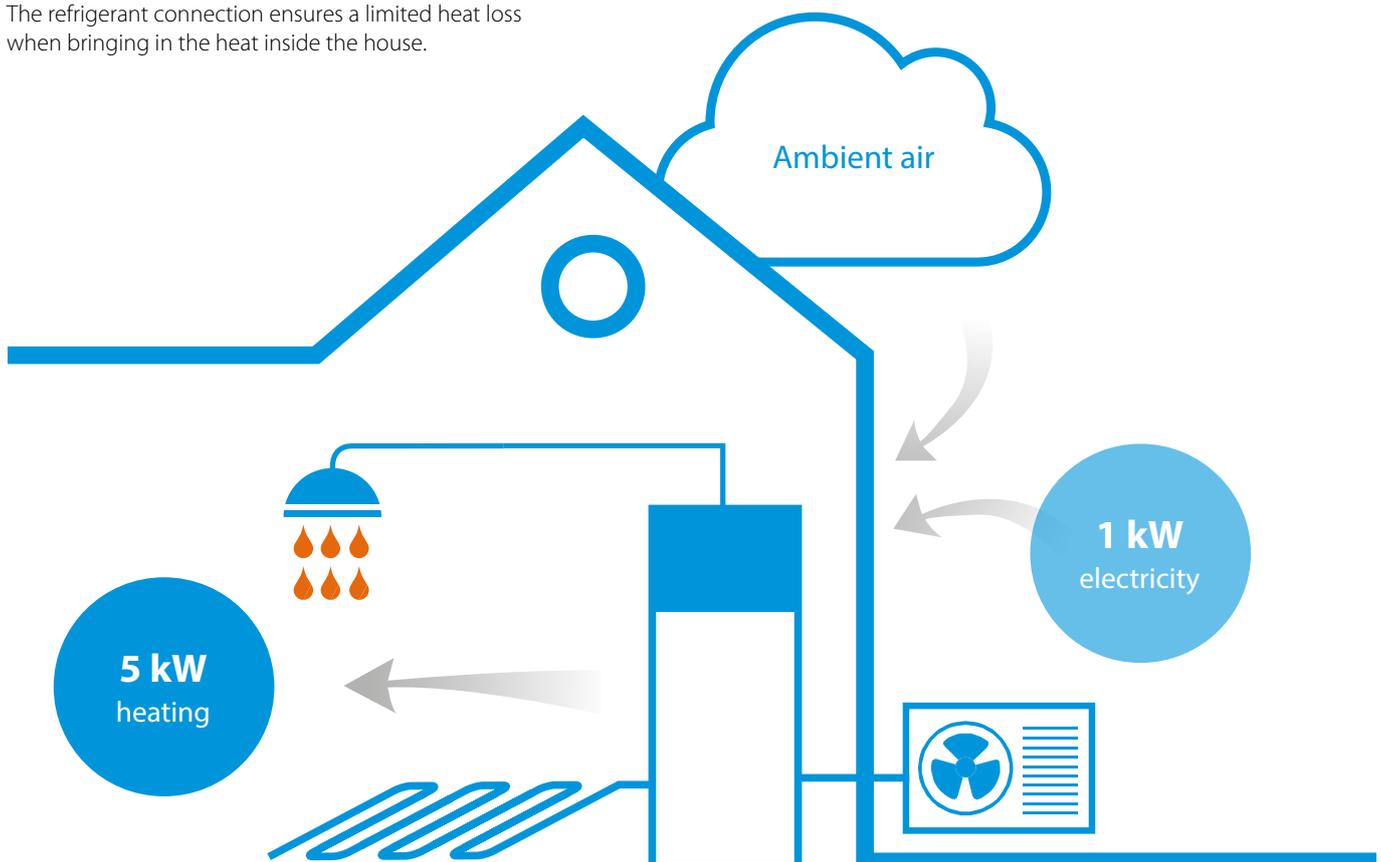
The outdoor unit extracts energy from the air to provide heating, cooling and hot water. They collect up to 75% of their energy in the air, while the rest is provided by electricity. The air-to-water heat pump relies on a compressor and a refrigerant to transfer the energy from the air to the water,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

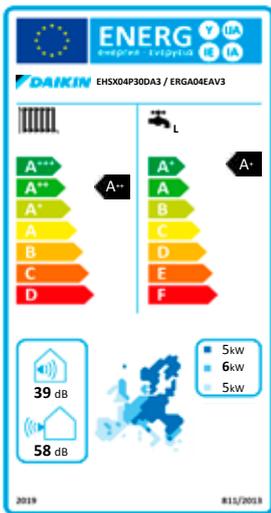
Low temperature heat pump

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 first 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 via app with the Daikin Residential Controller



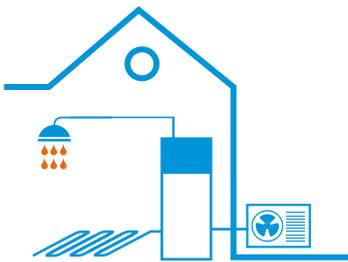
Daikin Altherma 3 R offers a wide range to adapt to your customers needs

✓ 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 ECH₂O

Floor standing unit with integrated ECH₂O 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

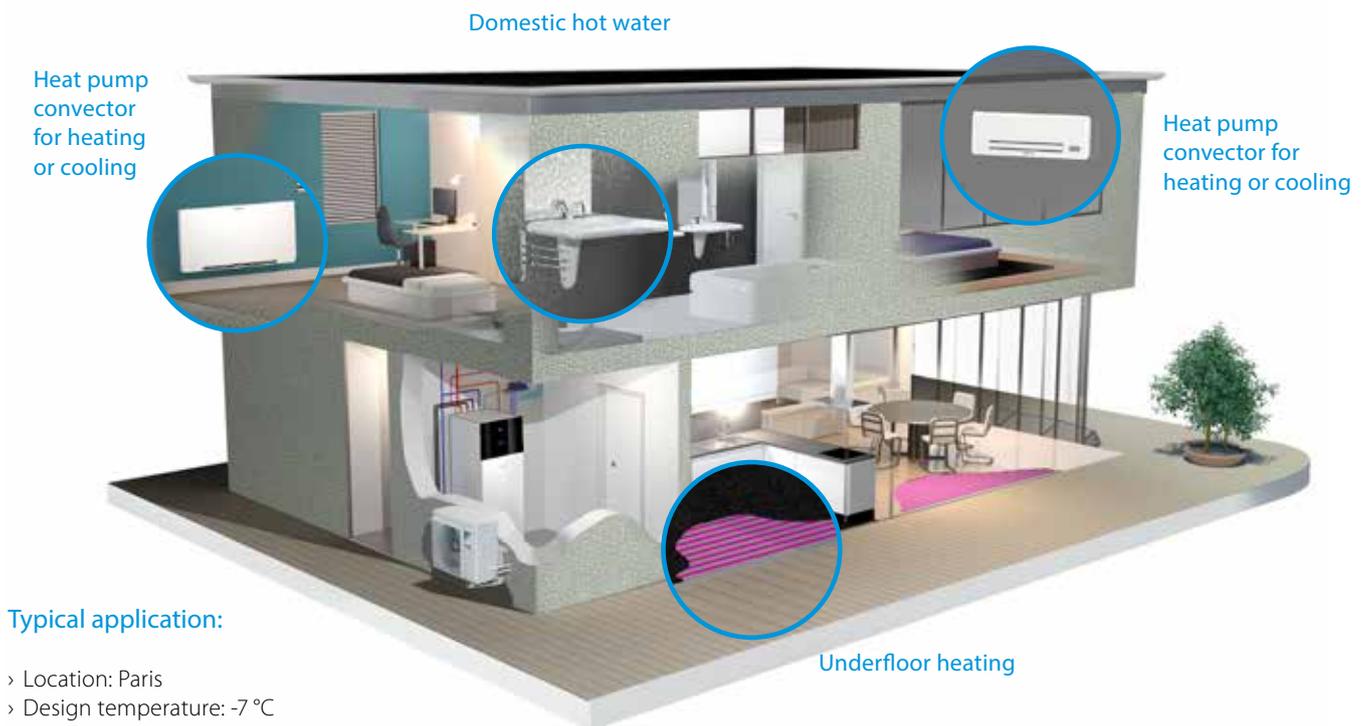
floor standing unit with integrated domestic hot water tank

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



All-in one design

Reduces the installation footprint and height

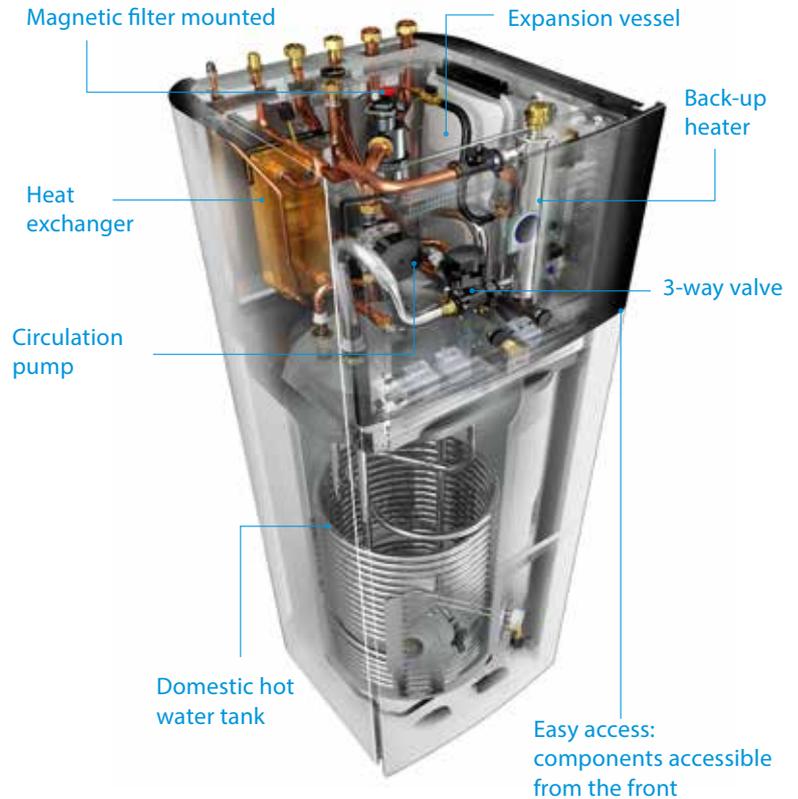
Compared to the traditional split version for a wall mounted indoor unit and a separate domestic hot water tank, the integrated indoor unit greatly reduces the installation space required.

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 ECH₂O tank

The Daikin Altherma low temperature split integrated ECH₂O 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 ECH₂O 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

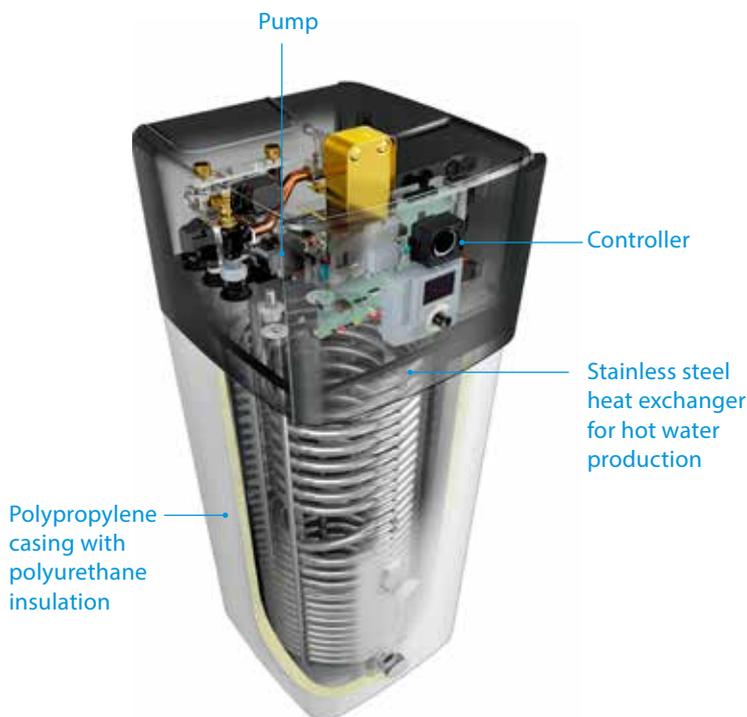
Innovative and high-quality tank

- › 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

ECH₂O



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.

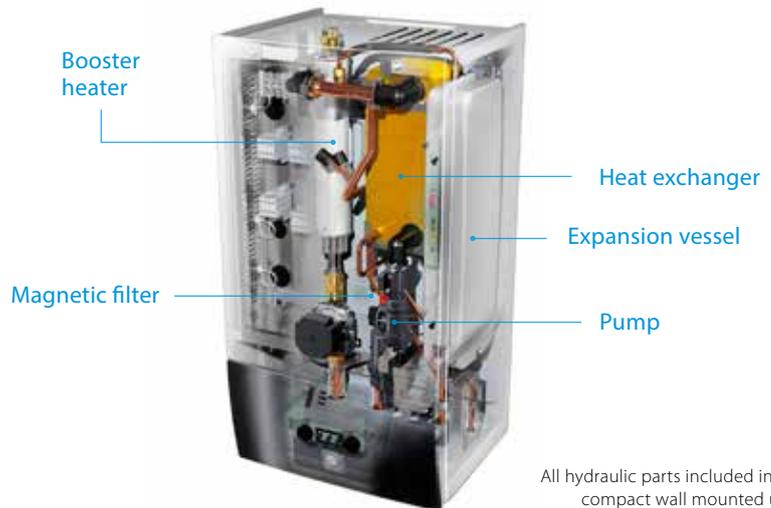
Daikin Altherma 3 R

Why choose Daikin wall mounted unit?

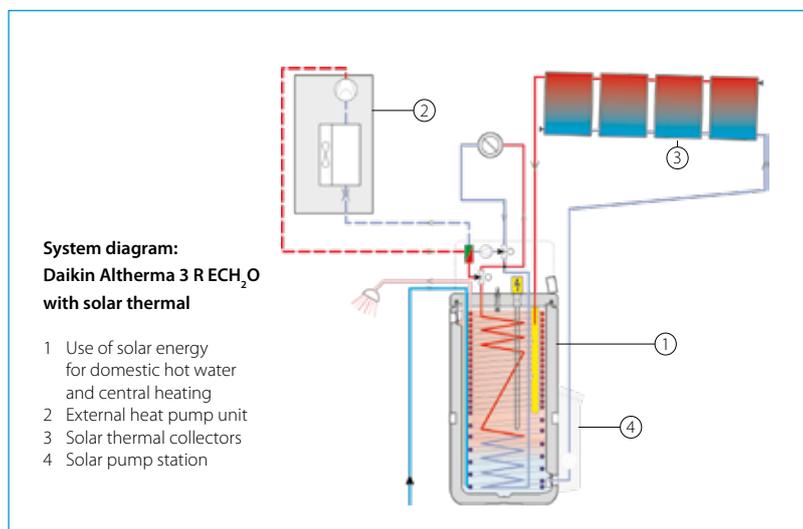
The Daikin Altherma 3 R W wall mounted unit offers **heating and cooling** with high flexibility for a quick and easy installation, **with an optional connection to deliver domestic hot water.**

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 ECH₂O thermal store



All hydraulic parts included in the compact wall mounted unit.

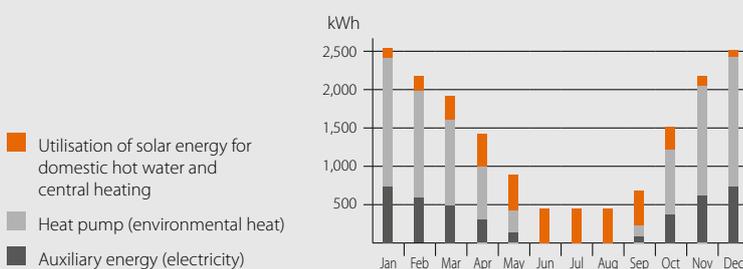


ECH₂O thermal store range: additional hot water comfort

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

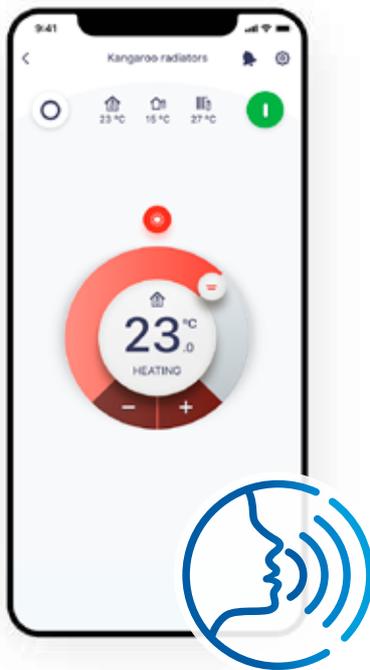
Monthly energy consumption of an average detached house



Daikin Residential Controller App

Now available with voice control

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

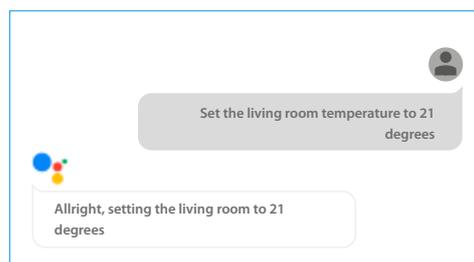


NEW

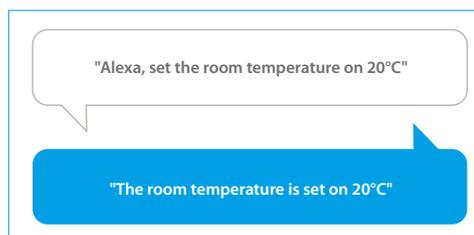
Voice control

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

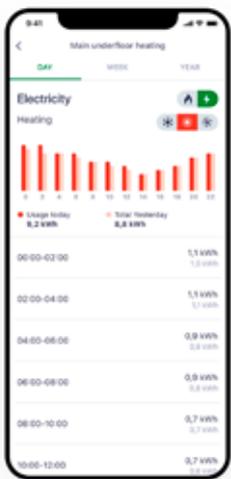
Cross-functional and multilingual, voice control pairs well with any smart device, including Google Assistant and Amazon Alexa.



Example of using the voice control via Google Assistant



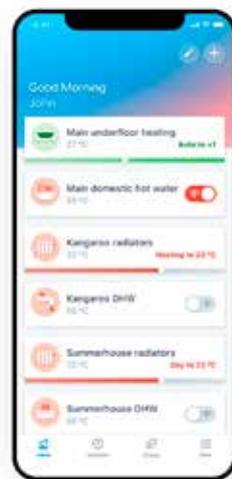
Example of using the voice control via Amazon Alexa



Schedule

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

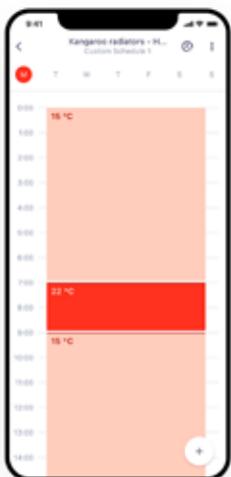
- Schedule room temperature and operation mode
- Enable holiday mode to save costs



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.

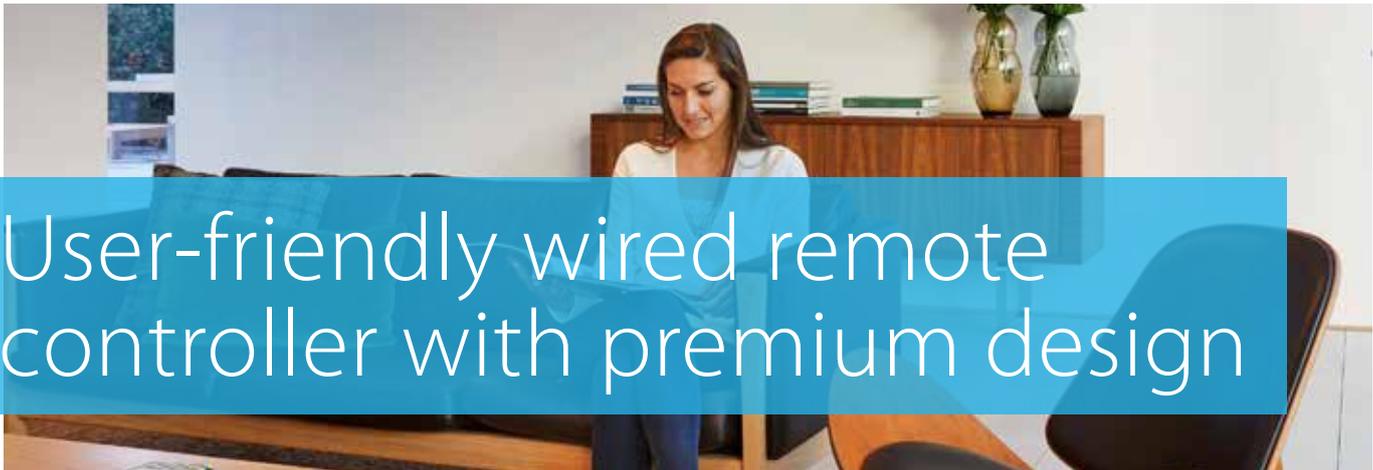
- Check the status of the heating system
- Access energy consumption graphs (day, week, month)

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



Individual room controls

For the temperature adjustment of heating and cooling systems



General features

- › Improve the energy efficiency of the home
- › Universally deployable and scalable
- › Easy and intuitive installation, operation and maintenance
- › Cost-effective and convenient for the end-user

System components



Base station EKWUFHTA1V3

The Daikin Wired Base Station is the central connection unit of a room-by-room temperature control for the surface temperature adjustment of heating and cooling systems.



Wired analog thermostat EKWCTRA1V3

An optimum price-performance ratio is offered for rooms where only temperature control is desired, without the comfort function of the display variant.



Wired digital thermostat EKWCTRDI1V3

The desired room temperature can be set comfortably via a rotary control with rotary-push action and soft ratchet. The well-structured and language-neutral symbols of the display clearly indicate all settings.



Valve actuator EKWCVATR1V3

The Daikin Valve Actuator is a thermoelectric valve drive used to open and close valves on heating circuit distributors of concealed heating and cooling systems.

Comfort

With the help of an electronic room-by-room control system, users can regulate the temperature individually in each room. In addition to the warmth output of the actual heating surfaces, the room temperature control system also takes all other heat sources into account, such as sunshine, warmth from lights or people, and other sources of warmth, such as a fireplace or a tiled stove. On the basis of a continuous comparison of the target and current temperatures, the room temperature control system opens and closes the individual heating circuits by way of electrical valve actuators.

Applicable Daikin units

Combinable with all Daikin Altherma units.

Stand By Me

It's time to relax. With your new Daikin installation and Stand By Me service programme, you can benefit from the best comfort, energy efficiency, usability and service available on the market. Stand By Me eliminates your worries by providing a free, extended warranty, quick follow-up from Daikin service providers, and additional warranties.

Stand By Me, a journey to customer satisfaction

Free warranty extension



The first advantage of **Stand By Me** is a free warranty extension:

- Applies to both labour and parts
- Begins immediately after registration

Quick follow-up by Daikin service partners

Daikin service partners are automatically notified when you register your installation on www.standbyme.daikin.eu and when it needs maintenance.

You are guaranteed:

- Quick and reliable service
- Management of all information related to your installation such as registration documents, attendance records, maintenance records, etc.
- Realtime error codes inform the service partner about possible issues

Extended warranty on parts

For a small fee, you can extend the warranty on specific parts. Contact your local Daikin branch for more information about the specific offer in your country.

Stand By Me guarantees:

- That each component is replaced quickly
- No financial surprises
- Long life and smooth operation and all other benefits of a Daikin installation
- Reliable service from official Daikin service partners

Daikin service partners work exclusively with Daikin parts and have all of the necessary technical knowledge to solve any issue that may arise.

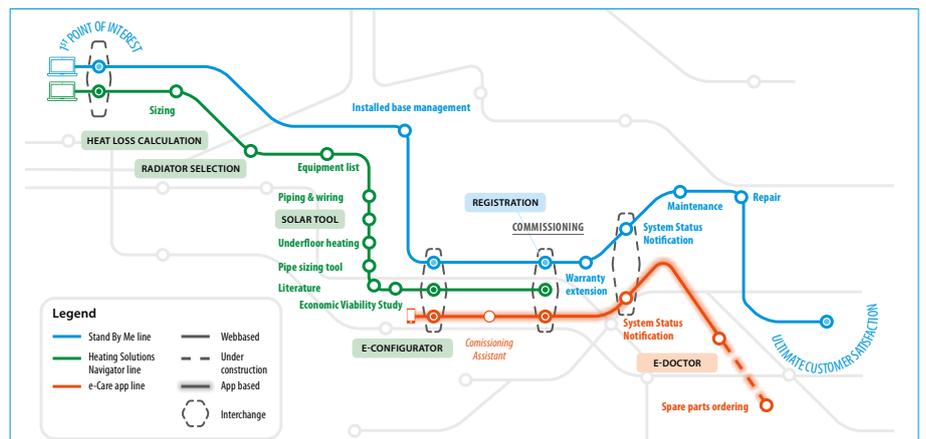
FOR PROFESSIONALS

The installer roadmap to customer satisfaction

Digital pre-sales support to guarantee the best product offer for all applications.

After-sales management platform for your installed base.

Register on:
www.standbyme.daikin.eu



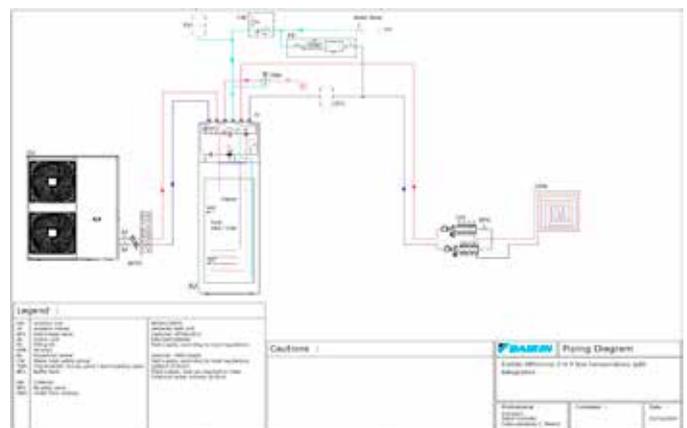
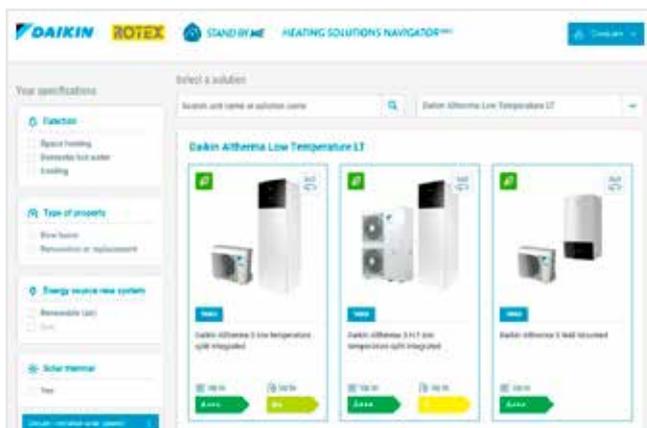


Heating Solutions Navigator

Want to know more about our Heating Solutions Navigator?

› The Heating Solutions Navigator is a digital toolbox developed for Daikin professionals with the aim to assist in providing the best solution for the application at hand.

› The tool allows to select the most suitable products and helps to configure the heat pump and underfloor heating installations thanks to piping and wiring diagrams.

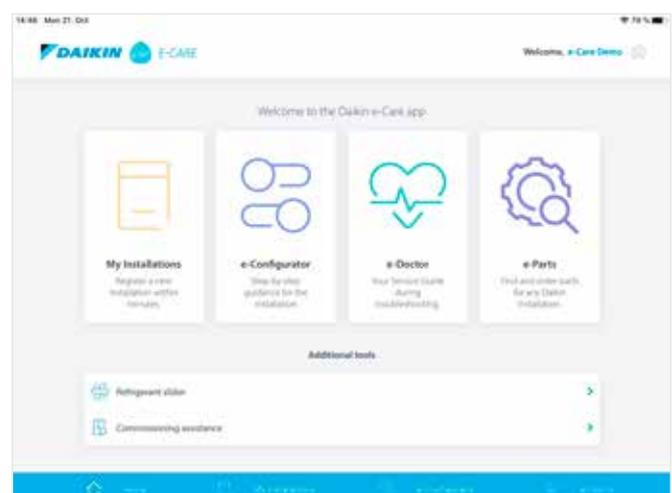


e-Care app

The Daikin e-Care app makes your life easier by offering Stand By Me registrations via QR code, easy configuration of your heating installation and trouble-shooting via the e-Doctor functionality.

NEW

Order your **spare parts** directly via the e-Care app, update the settings of your installation with a **Wifi USB** stick and avoid mistakes during the commissioning of your installation thanks to the guidance of the **Commissioning Assistant**.



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 Daikin Residential Controller app
- › Voice control available



Efficiency data		EHVX + ERGA		04S18E3V/ E6V(G) + 04EV		04S23E3V/ E6V(G) + 04EV		08S18E6V(G)/ E9W + 06EV		08S23E6V(G)/ E9W + 06EV		08S18E6V(G)/ E9W + 08EV		08S23E6V(G)/ E9W + 08EV				
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) / 1,126 (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++				A++				A++					
			SCOP		4.54				4.52				4.61					
Space heating	Average climate water outlet 35 °C	General	SCOP		4.54				4.52				4.61					
			ηs (Seasonal space heating efficiency)		179				178				181					
			Seasonal space heating eff. class		A+++				A+++				A+++					
			SCOP		4.54				4.52				4.61					
Domestic hot water heating	General	Declared load profile		L		XL		L		XL		L		XL				
		Average climate		ηwh (water heating efficiency)		127 125		134 133		125		133		125 133				
		Water heating energy efficiency class		A+				A+				A+						
Indoor Unit				EHVX		04S18E3V/E6V(G)		04S23E3V/E6V(G)		08S18E6V(G)/E9W		08S23E6V(G)/E9W		08S18E6V(G)/E9W		08S23E6V(G)/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		70		70		70		70		70		70	
	Maximum water pressure		bar		10		10		10		10		10		10		10	
	Corrosion protection		Pickling		Pickling		Pickling		Pickling		Pickling		Pickling		Pickling		Pickling	
	Operation range	Heating	Ambient	Min.~Max.	°C		5~30		5~30		5~30		5~30		5~30		5~30	
Water side			Min.~Max.	°C		15~65		15~65		15~65		15~65		15~65		15~65		
Cooling		Ambient	Min.~Max.	°CDB		5~35		5~35		5~35		5~35		5~35		5~35		
		Water side	Min.~Max.	°C		5~22		5~22		5~22		5~22		5~22		5~22		
Domestic hot water		Ambient	Min.~Max.	°CDB		5~35		5~35		5~35		5~35		5~35		5~35		
		Water side	Max.	°C		70		70		70		70		70		70		
Sound power level		Nom.	dBA		42		42		42		42		42		42			
Sound pressure level		Nom.	dBA		28		28		28		28		28		28			
Outdoor Unit				ERGA		04EV		06EV		08EV								
Dimensions	Unit	Height x Width x Depth		mm		740 x 884 x 388		740 x 884 x 388		740 x 884 x 388		740 x 884 x 388						
Weight	Unit	kg		58.5		58.5		58.5		58.5		58.5						
Compressor	Quantity	1		1		1		1		1		1						
	Type	Hermetically sealed swing compressor		Hermetically sealed swing compressor		Hermetically sealed swing compressor		Hermetically sealed swing compressor		Hermetically sealed swing compressor		Hermetically sealed swing compressor						
Operation range	Cooling	Min.~Max.	°CDB		10~43		10~43		10~43		10~43							
	Domestic hot water	Min.~Max.	°CDB		-25~35		-25~35		-25~35		-25~35							
Refrigerant	Type	R-32		R-32		R-32		R-32		R-32		R-32						
	GWP	675.0		675.0		675.0		675.0		675.0		675.0						
	Charge	kg		1.50		1.50		1.50		1.50		1.50						
	Charge	TCO _{Eq}		1.01		1.01		1.01		1.01		1.01						
Sound power level	Heating	Nom.	dBA		58		58		58		58		58					
		Nom.	dBA		61		61		61		61		61					
	Cooling	Nom.	dBA		44		44		44		44		44					
		Nom.	dBA		48		48		48		48		48					
Sound pressure level	Heating	Nom.	dBA		47		47		47		47		47					
	Cooling	Nom.	dBA		49		49		49		49		49					
Power supply	Name/Phase/Frequency/Voltage			Hz/V		V3/1N~/50/230		V3/1N~/50/230		V3/1N~/50/230		V3/1N~/50/230						
Current	Recommended fuses			A		25		25		25		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 ECH₂O

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



011-IW0262 → 267

Efficiency data		EHSX + ERGA		04P30D3 + 04EV	04P50D3 + 04EV	08P30D3 + 06EV	08P50D3 + 06EV	08P30D3 + 08EV	08P50D3 + 08EV			
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		0.84 (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.		kW		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 _s (Seasonal space heating efficiency)	%		129		128		131		
	Average climate water outlet 35 °C	General	SCOP			4.54		4.52		4.61		
			η _s (Seasonal space heating efficiency)	%		179		178		181		
Domestic hot water heating	General	Declared load profile		L	XL	L	XL	L	XL			
	Average climate	η _{wh} (water heating efficiency)		%		115		106		115		
		Water heating energy efficiency class				A+		A		A+		

Indoor Unit		EHSX		04P30D3	04P50D3	08P30D3	08P50D3	08P30D3	08P50D3	
Casing	Colour	Traffic white (RAL9016) / Dark grey (RAL7011)								
	Material	Impact resistant polypropylene								
Dimensions	Unit	Height x Width x Depth		mm		1,891 x 595 x 615		1,896 x 790 x 790		
Weight	Unit			kg		73		93		
Tank	Water volume		l		294		477		294	
	Maximum water temperature		°C				85			
Operation range	Heating	Ambient	Min.~Max.	°C				-25~-25		
		Water side	Min.~Max.	°C				18~65		
	Cooling	Ambient	Min.~Max.	°CDB				10~43		
		Water side	Min.~Max.	°C				5~22		
	Domestic hot water	Ambient	Min.~Max.	°CDB				-25~35		
		Water side	Min.~Max.	°C				25~55		
Sound power level	Nom.			dB(A)				39		

Outdoor Unit		ERGA		04EV	06EV	08EV		
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		10.0~43.0			
	Domestic hot water	Min.~Max.	°CDB		-25 ~35			
Refrigerant	Type				R-32			
	GWP				675.0			
	Charge		kg		1.50			
	Control		TCO _{Eq}		1.01			
Sound power level	Heating	Nom.	dB(A)		58		62	
	Cooling	Nom.	dB(A)		61		62	
Sound pressure level	Heating	Nom.	dB(A)		44		49	
	Cooling	Nom.	dB(A)		48		50	
Power supply	Name/Phase/Frequency/Voltage		Hz/V		V3/IN~/50/230			
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 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 ECH₂O thermal store
- > Outdoor unit extracts heat from the outdoor air, even at -25 °C
- > Compatible with the Daikin Residential Controller app
- > Voice control available



Efficiency data		EHBX + ERGA		04E6V + 04EV		08E6V + 06EV		08E9W + 06EV		08E6V + 08EV		08E9W + 08EV		
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++						
	Average climate water outlet 35 °C	General	SCOP			4.54		4.52		4.61				
			ηs (Seasonal space heating efficiency)	%		179		178		181				
			Seasonal space heating eff. class					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		42.0		42.4		42.0		42.4		
Operation range	Heating	Water side	Min.~Max.		°C				15 ~65					
	Domestic hot water	Water side	Min.~Max.		°C				25~75					
Sound power level	Nom.			dBA				42						
Sound pressure level	Nom.			dBA				28						
Outdoor Unit		ERGA		04EV		06EV		08EV						
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,Eq		1.01								
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		V3/1N~/50/230								
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.

Options

Type	Daikin Altherma 3 R F	Material name
Controllers	Remote user interface	BRC1HHDW/S/K
	WLAN module	BRP069A71
	WLAN cartridge	BRP069A78
	Room thermostat (wired)	EKRTWA
	Room thermostat (wireless)	EKRTR1
	External sensor	EKRTETS
Adapter	Demand PCB	EKRPIAHTA
	Digital I/O PCB	EKRPIHBAA
Installation	Bi-Zone kit (watts kit)	BZKA7V3
Sensors	Remote indoor sensor	KRCS01-1
	Remote outdoor sensor	EKRSCA-1
Others	PC USB Cable	EKPCCAB4
	Conversion kit	EKHVCONV
	Low sound cover for ERGA-E	EKLN-A

Type	Daikin Altherma 3 R ECH ₂ O	Material name
Controllers	Room thermostat	RoCon U1 / EHS157034
	Mixer module	RoCon M1 / EHS157068
	Remote outdoor sensor	EKRSC1
	Gateway for apps	RoCon G1 / EHS157056
Back-up heater	Back-up heater 1 kW + Switchbox	EKBUB1C + EKBUHSWB
	Back-up heater 3 kW + Switchbox	EKBUB3C + EKBUHSWB
	Back-up heater 9 kW + Switchbox	EKBUB9C + EKBUHSWB
Hydraulics	Hydraulic separator	HWC / 172900
	Heat insulation for HWC	WHWC / 172901
Pump group	Pump group with mixer module	156075
	Pump group without mixer module	156077
Additional connections	Dirt separator SAS1	SAS1 / 156021
	Dirt separator SAS2	SAS2 / 156023
	Biv connector kit	141589
	DB connector kit	141590
	Terminal connection kit	141592
Other	Connector external heater	141591
	Low sound cover for ERGA-E	EKLN-A

Type	Daikin Altherma 3 R W	Material name
Controllers	Remote user interface	BRC1HHDW/S/K
	WLAN Adapter module	BRP069A71
	WLAN Adapter	BRP069A78
	Room thermostat (wired)	EKRTWA
	Room thermostat (wireless)	EKRTR1
	External sensor	EKRTETS
Adapter	Demand PCB	EKRPIAHTA
	Digital I/O PCB	EKRPIHBAA
Installation	Bi-Zone kit (watts kit)	BZKA7V3
Sensors	Remote indoor sensor	KRCS01-1
	Remote outdoor sensor	EKRSCA-1
Others	PC USB Cable	EKPCCAB4
	Conversion kit	EKHBCONV
	Low sound cover for ERGA-E	EKLN-A
	Connection kit with storage tank EKHWP*	EKBH3SD



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