

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



**NEW**

Now reaches **A<sup>+</sup>** in DHW

Low temperature air-to-water heat pump  
maximising renewable energy  
with top comfort for hot water preparation

Heat pump Keymark certification

EHSX(B)-E+ERGA-EV(H)(7)

011-1W0262

011-1W0264 -> 267

EHSX(B)-E+ERGA-EV(H)(7)

011-1W0262 -> 267



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

## How does it work?

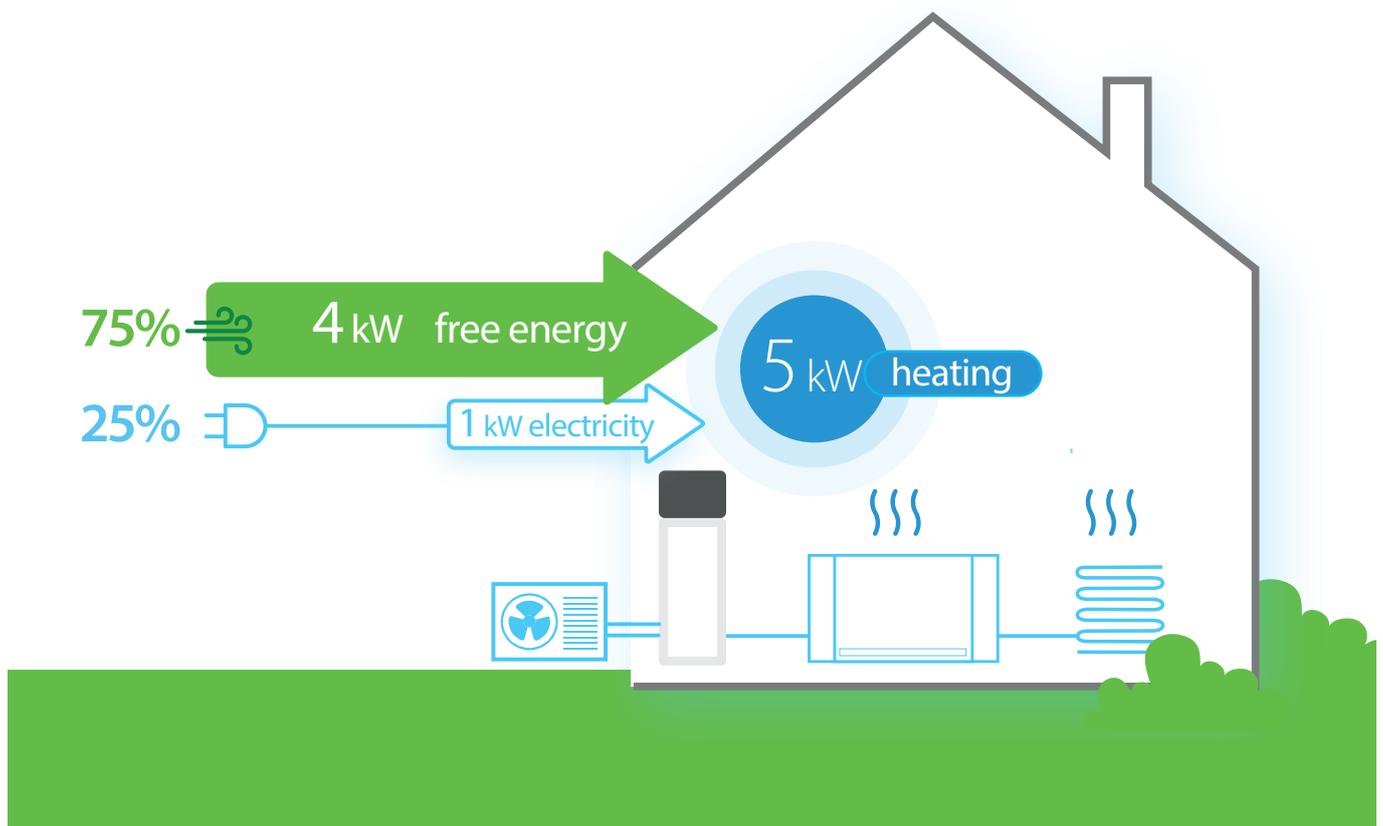
The outdoor unit extracts energy from the air to provide heating, cooling and hot water. They collect up to 75% of their energy in the air, while the rest is provided by electricity. The air-to-water heat pump relies on a compressor and a refrigerant to transfer the energy from the air to the water,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

## Low leaving water temperature

Typical new build application. 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.

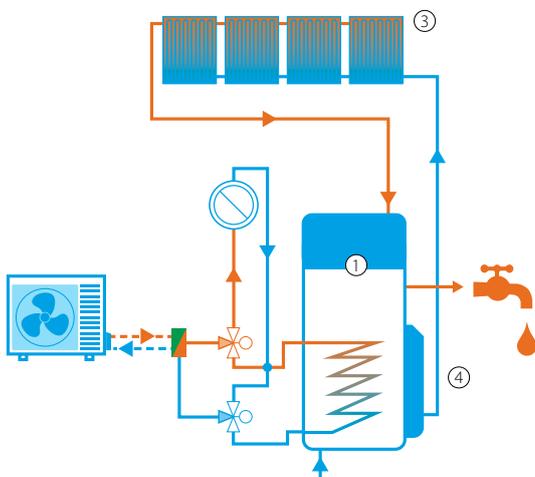
## Refrigerant split set-up

This heating system is made of an outdoor unit extracting the air and an indoor unit which is the command center on which you control your system. The connection ensures a limited heat loss when bringing in the heat.



# Take advantage of the sun

## Solar ready: optimum combination with solar energy



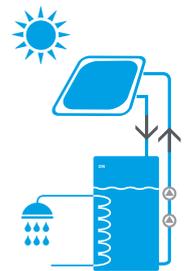
### System diagram:

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

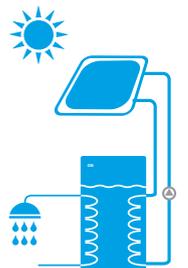
- 1 Use of solar energy for domestic hot water and central heating
- 2 External heat pump unit
- 3 Solar thermal collectors
- 4 Solar pump station

- > Adding a solar thermal system is the most effective way to achieve higher overall system efficiency
- > Tank design is specifically optimised for solar energy with perfect stratification
- > All connections are factory mounted for solar thermal combination
- > Two installation possibilities:

- **Drain-back solar system:** only fills the solar collectors when sufficient heat is available. If there is not enough sunshine all the water drains back into the storage thermal store. No need for antifreeze as the collector are not filled with water
- **Pressurised solar system:** Also easily connectable. The system is filled with heat transfer fluid with correct amount of antifreeze



Drain-back solar system



Pressurised solar system

### Monthly energy consumption of an average detached house



## Fresh water principle:

- > Drinking water is held in the high performance stainless steel heat exchanger which is fundamentally different from large hot water tanks. It can deliver perfectly hygienic hot water at any time with no need for thermal legionella disinfection
- > Perfect hygiene as instantaneous hot water is available on demand, minimising the volume of stored domestic hot water
- > The thermal store has been designed to meet the latest thermal technology and water hygiene requirements





## Ultimate comfort through maximal renewable energy use

The integrated ECH<sub>2</sub>O unit combines highly effective heat pump technology and thermal energy storage to provide space heating and domestic hot water.

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

- › The ultimate comfort in heating, hot water and optional cooling
- › Ideal for new builds as well as modern buildings that require less heating energy
- › The Daikin Altherma 3 R ECH<sub>2</sub>O can operate in conjunction with low temperature radiators or an underfloor heating system
- › Underfloor heating requires lower surface temperatures and can also be used for cooling in summer

### Did you know?

During summer months, the system can produce 100% of the domestic hot water needs using solar energy alone.

## 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 the installer or service engineer.



## 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

# Onecta App, now available with voice control

Manage your heating system  
from your smartphone.

## 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.

## Schedule

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

## Control

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

## Monitor

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

onecta

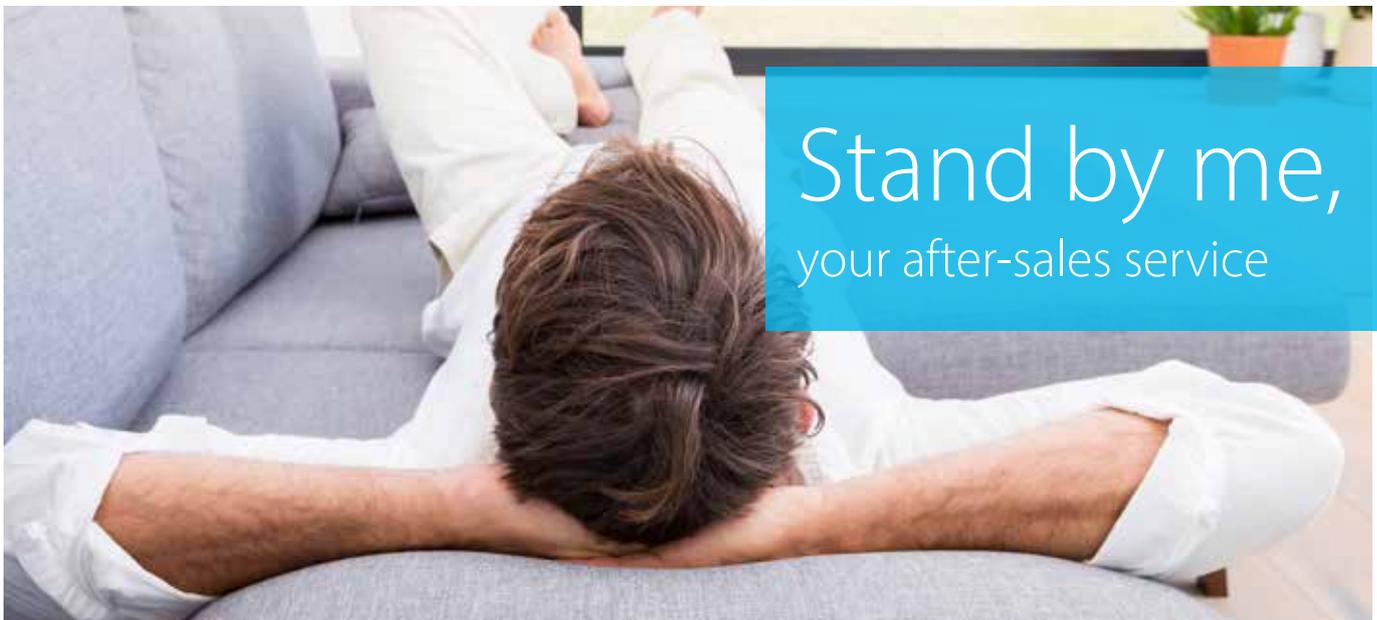


Scan the QR code to  
download the app now



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.





# Stand by me, your after-sales service

## Stand by me, the online support platform between you and the installer

Stand by me has the aim of providing peace of mind comfort thanks to different features:

- ✓ A free warranty
- ✓ An additional extended warranty
- ✓ Easy contact with your installer



### Extended warranty



If you opt for the extended warranty on spare parts, your Daikin system will be fully covered after the installation.

#### What are the advantages?

- › All spare parts are covered by the extended warranty
- › Guaranteed optimal performance during the full life of your Daikin system
- › If any problem, you'll be easily in contact with a Daikin service partner



### Maintenance alert

You and the service partner will be automatically informed whenever the maintenance of your system must be done.



### Digital maintenance book

On "Stand by me" you can also find the whole maintenance history of your system, user manuals, intervention details, ...

**Want to know more?**

**<https://standbyme.daikin.eu/>**

# Specifications

Daikin Altherma 3 R ECH <sub>2</sub> O	Capacity	Nominal capacity (kW)		Space heating		Domestic hot water heating			Indoor unit dimensions	Sound power level indoor	Sound power level outdoor		Refrigerant (R-32)				
		Heating	Cooling	Average climate water outlet 55°C		General	Average climate				HxWxD (mm)	Heating	Heating	Cooling	GWP	Charge (kg)	Charge (TCO <sub>Eq</sub> )
				η <sub>s</sub> (Seasonal space heating eff. class)	Seasonal space heating eff. class		Declared load profile	η <sub>wh</sub> (water heating efficiency)									
EHSH-E + ERGA-EV(H)(7)	04P30E + 04EV	4.30 (1) / 4.60 (2)	-	127	A++	L	118	A+	1,892 x 594 x 644	39	58	61	675.0	1.5	1.01		
	08P30E + 06EVH	6.00 (1) / 5.90 (2)	-			L			1,892 x 594 x 644		60	62					
	08P50E + 06EVH		-			XL			1,905 x 792 x 812		60	62					
	08P30E + 08EVH7	7.50 (1) / 7.80 (2)	-	L		1,892 x 594 x 644	62		62								
	08P50E + 08EVH7		-	XL		1,905 x 792 x 812	62		62								
EHSB-E + ERGA-EV(H)(7)	04P30E + 04EV	4.30 (1) / 4.60 (2)	-	127	A++	L	118	A+	1,892 x 594 x 644	39	58	61	675.0	1.5	1.01		
	08P30E + 06EVH	6.00 (1) / 5.90 (2)	-			L			1,892 x 594 x 644		60	62					
	08P50E + 06EVH		-			XL			1,905 x 792 x 812		60	62					
	08P30E + 08EVH7	7.50 (1) / 7.80 (2)	-	L		1,892 x 594 x 644	62		62								
	08P50E + 08EVH7		-	XL		1,905 x 792 x 812	62		62								
EHSX-E + ERGA-EV(H)(7)	04P30E + 04EV	4.30 (1) / 4.60 (2)	5.56 (1) / 4.37 (2)	127	A++	L	118	A+	1,892 x 594 x 644	39	58	61	675.0	1.5	1.01		
	04P50E + 04EV	6.00 (1) / 5.90 (2)	5.96 (1) / 4.87 (2)			XL			1,905 x 792 x 812		58	61					
	08P30E + 06EVH		7.50 (1) / 7.80 (2)			6.25 (1) / 5.35 (2)			L		1,892 x 594 x 644	60				62	
	08P50E + 06EVH	-		XL		1,905 x 792 x 812	60		62								
	08P30E + 08EVH7	7.50 (1) / 7.80 (2)	6.25 (1) / 5.35 (2)	L		1,892 x 594 x 644	62		62								
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	08P50E + 06EVH	-		XL		1,905 x 792 x 812	60		62								
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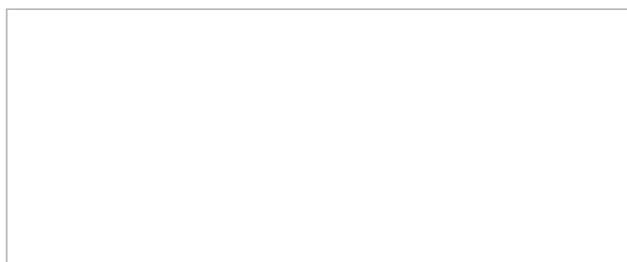
(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C)  
 (2) Cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C)

This product contains fluorinated greenhouse gases.

Solar collectors	Thermal performance   collector efficiency (η <sub>col</sub> ) ! %	Thermal performance   Zero loss collector efficiency η <sub>0</sub> ! %	Dimensions (HxWxD, mm)
 EKSX-P	21	61	1006x85x2000
	26	61	1006x85x2000
	26	61	2000x85x1300

Accessory	EKSRS4AB		EKSRS2A	
Mounting	On side of tank		On wall	
Dimensions	Unit	HeightxWidthxDepth	mm	mm
Weight	Unit		kg	6.4
Operation range	Ambient temperature	Min.-Max.	°C	5~40
Operating pressure	Max.		bar	6
Stand still temperature	Max.		°C	85
Control	Type	Digital temperature difference controller with plain text display		
	Power consumption	W	2	5
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/230	1~/50/230
Power supply intake	Indoor unit			

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