

# Ultimate comfort through

The integrated ECH<sub>2</sub>O unit combines highly effective



## Daikin Altherma 3 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 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 iconbased 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.



### 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

### Intelligent storage management

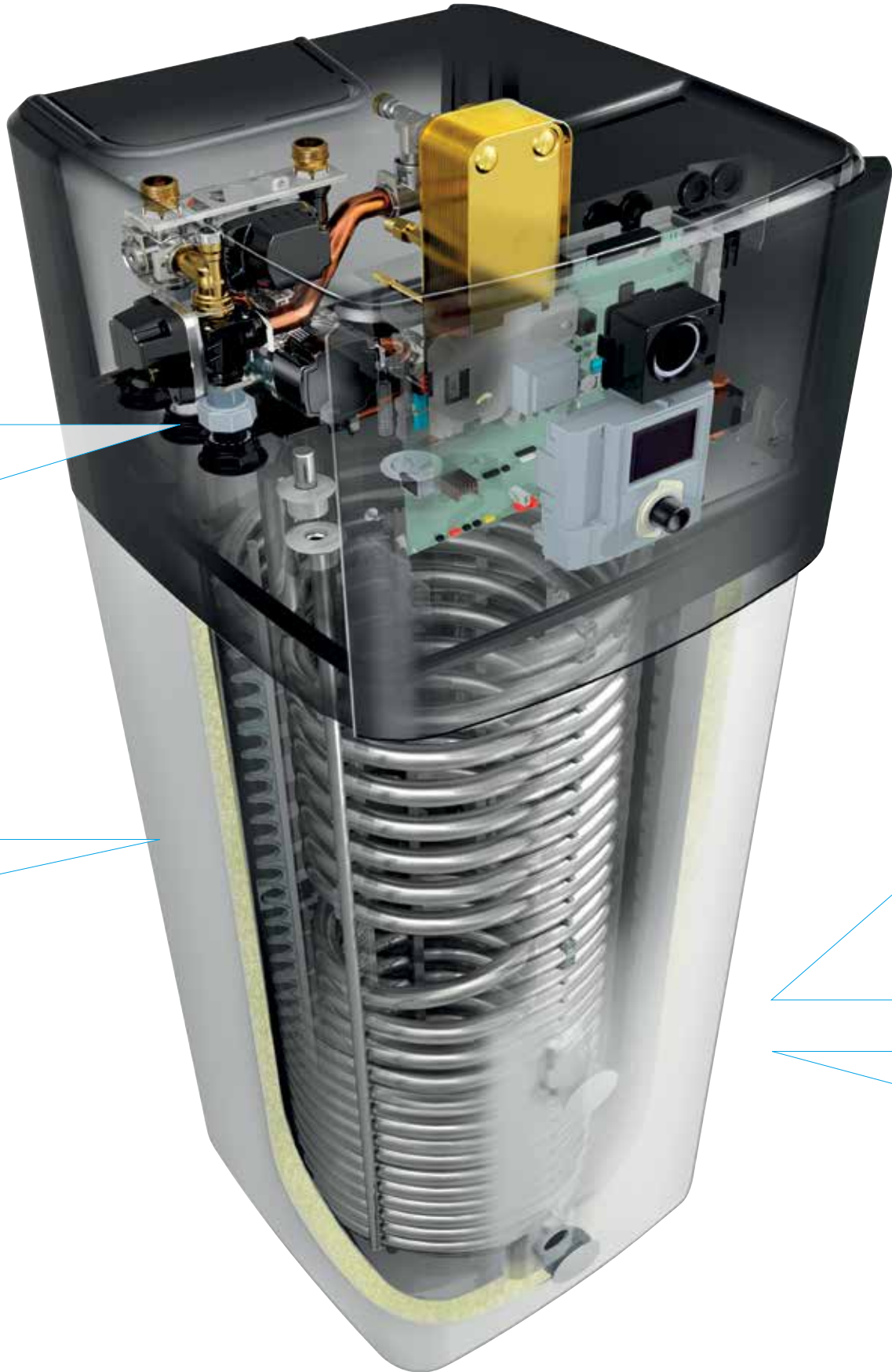
- › The unit is 'Smart Grid' ready to take advantage of low energy tariffs and efficiently store thermal energy for space heating and domestic hot water
- › Continuous heating during defrost mode and use of stored heat for space heating (500l tank only)
- › Electronic management of both heat pump and ECH<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



## App control possible

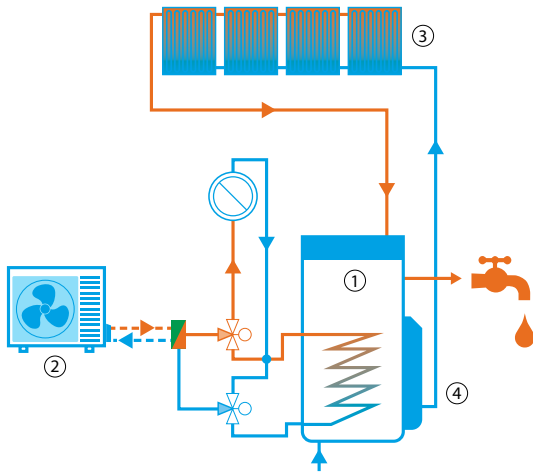
- › Central heating, hot water and cooling operation via an app
- › The user interface manages the entire thermal store, the heart of the system
- › Comprehensive management guarantees highest system efficiency
- › Intuitive menu navigation

ough maximal renewable e  
ve heat pump technology and thermal energy storage



# energy use

to provide space heating and domestic hot water

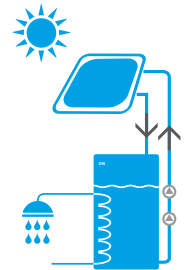


**System diagram:**  
**HPSU compact with solar thermal**

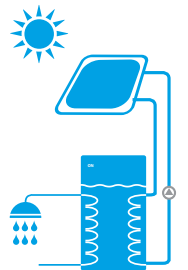
- 1 Use of solar energy for domestic hot water and central heating
- 2 External heat pump unit
- 3 Solar thermal collectors
- 4 Solar pump station

## Solar ready: optimum combination with solar energy

- > 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

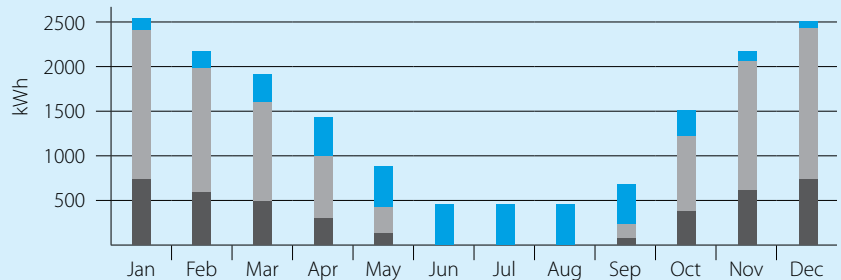


Drain-back solar system



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



# Specifications


Daikin Altherma 3 ECH2O	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
				$\eta_s$ (Seasonal space heating efficiency)	Seasonal space heating eff. class		Declared load profile	$\eta_{wh}$ (water heating efficiency)	Water heating efficiency class						
EHS-D + ERGA-DV	04P30D + 04DV	4.30 (1) / 4.60 (2)	-	127	A++	L	108	A	39.1	1891x595x615	58	61	675.0	1.5	
	08P30D + 06DV	6.00 (1) / 5.90 (2)	-			L				1891x595x615	60	62			
	08P50D + 06DV	-	-	XL		106	1896x790x790			60	62				
	08P30D + 08DV	7.50 (1) / 7.80 (2)	-	L		108	1891x595x615			62	62				
EHS-D + ERGA-DV	08P50D + 08DV	-	-	130	XL	106	1896x790x790	62	62						
	04P30D + 04DV	4.30 (1) / 4.60 (2)	-	127	L	108	A	39.1	1891x595x615	58	61	675.0	1.5		
	08P30D + 06DV	6.00 (1) / 5.90 (2)	-		L				1891x595x615	60	62				
	08P50D + 06DV	-	-	XL	109	1896x790x790			60	62					
08P30D + 08DV	7.50 (1) / 7.80 (2)	-	L	108	1891x595x615	62			62						
EHS-D + ERGA-DV	08P50D + 08DV	-	-	130	XL	109	1896x790x790	62	62						
	04P30D + 04DV	4.30 (1) / 4.60 (2)	5.56 (1) / 4.37 (2)	127	L	108	A	39.1	1891x595x615	58	61	675.0	1.5		
	04P50D + 04DV	6.00 (1) / 5.90 (2)	5.96 (1) / 4.87 (2)		L				1891x595x615	60	62				
	08P30D + 06DV	-	-	XL	106	1896x790x790			60	62					
08P30D + 08DV	7.50 (1) / 7.80 (2)	6.25 (1) / 5.35 (2)	L	108	1891x595x615	62			62						
EHS-D + ERGA-DV	08P50D + 08DV	-	-	130	XL	106	1896x790x790	62	62						
	04P30D + 04DV	4.30 (1) / 4.60 (2)	5.56 (1) / 4.37 (2)	127	L	108	A	39.1	1891x595x615	58	61	675.0	1.5		
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EHS-D + ERGA-DV	08P50D + 08DV	-	-	130	XL	109	1896x790x790	62	62						

- (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)


Solar collectors	Thermal performance   collector efficiency ( $\eta_{col}$ ) ! %	Thermal performance   Zero loss collector efficiency $\eta_0$ ! %	Dimensions		
	EKSV-P	21	-	0.781	1300x2000
	EKSH-P	26	-	0.784	2000x1006
		26	-	0.784	2000x1300

Accessory	EKS RPS4A		EKS RDS2A	
Mounting	On side of tank		On wall	
Dimensions	Unit	HeightxWidthxDepth	mm	mm
Weight	Unit		kg	kg
Operation range	Ambient temperature	Min.~Max.	°C	°C
Operating pressure	Max.		bar	bar
Stand still temperature	Max.		°C	°C
Control	Type		Digital temperature difference controller with plain text display	
Power supply	Power consumption		W	W
Power supply intake	Phase/Frequency/Voltage		Hz/V	Hz/V

## Options

Daikin Altherma 3 ECH <sub>2</sub> O	Type	Material name
	Back-up heater 1 kW + Switchbox	EKBUB1C + EKBUHSWB
	Back-up heater 3 kW + Switchbox	EKBUB3C + EKBUHSWB
	Back-up heater 9 kW + Switchbox	EKBUB9C + EKBUHSWB

## Heat pump Keymark certification

-  EHS(B)-D+ERGA-DV  
 011-1W0262  
 011-1W0264 -> 267  
 EHSX(B)-D+ERGA-DV  
 011-1W0262 -> 267

The Heat Pump KEYMARK is a voluntary, independent, European certification mark for all heat pumps. It certifies space heating performance, sound power level, domestic hot water performance as well as operating tests.

# 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 programme, 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.



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 a customer registers their installation on [www.standbyme.daikin.eu](http://www.standbyme.daikin.eu) and needs maintenance.

Your customer is guaranteed:

- quick and reliable service
- management of all information related to their installation such as, registration documents, attendance records, maintenance records, etc.
- realtime error codes are informing the service partner about possible issues



Extended warranty on parts

For a small fee, customers can extend the warranty on specific parts. Contact your local Daikin branche to have more information about the specific offer in your country.

**Stand By Me** guarantees:

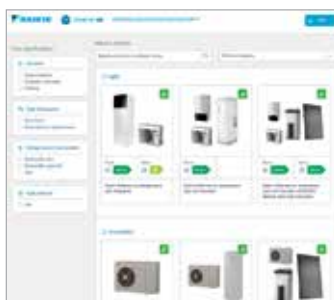
- that each component is replaced quickly
- helps avoid financial surprises
- long life and smooth operation and all other benefits of a Daikin installation
- reliable service from official Daikin service partners

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

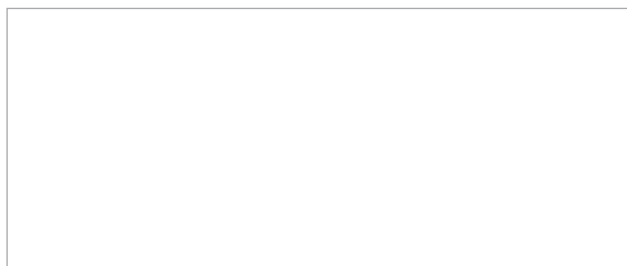
## Heating Solutions Navigator

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 fit solution for your customers home.
- › With this tool you can configure your installation, create custom made piping & wiring diagrams, set the configuration on your installation and much more.



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



System efficiency  
with solar\*:



EHS04P30DA / ERGA04DAV3 /  
4xEKSH26P1 / EKSRDS2A. /  
Integrated Controller

Air to water heat pump  
maximising renewable energy  
with top comfort for hot water preparation