

# Daikin Altherma 3 R

Product catalogue 2020

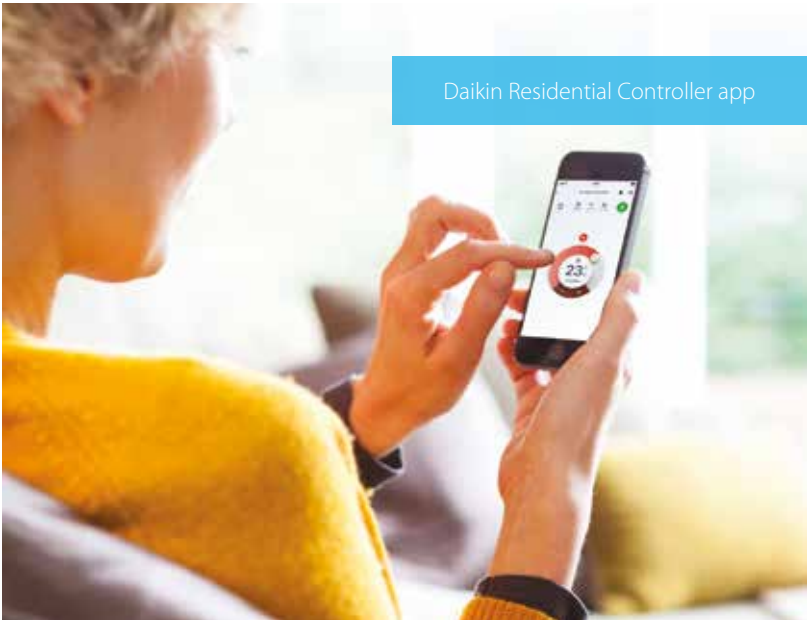


Setting the new heat pump standard





EHV(H/X/Z)-D



Daikin Residential Controller app



ERGA-D(A)

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# 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



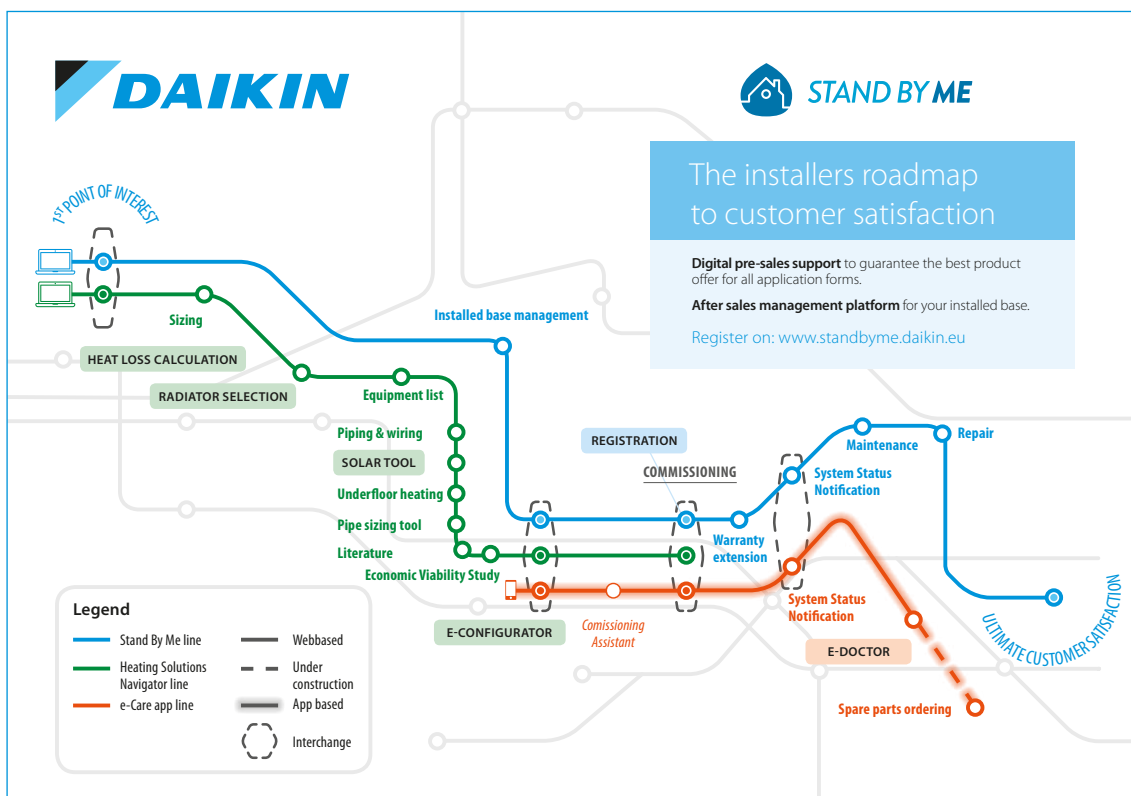
**Extended warranty on parts**

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.

### Stand By Me roadmap overview

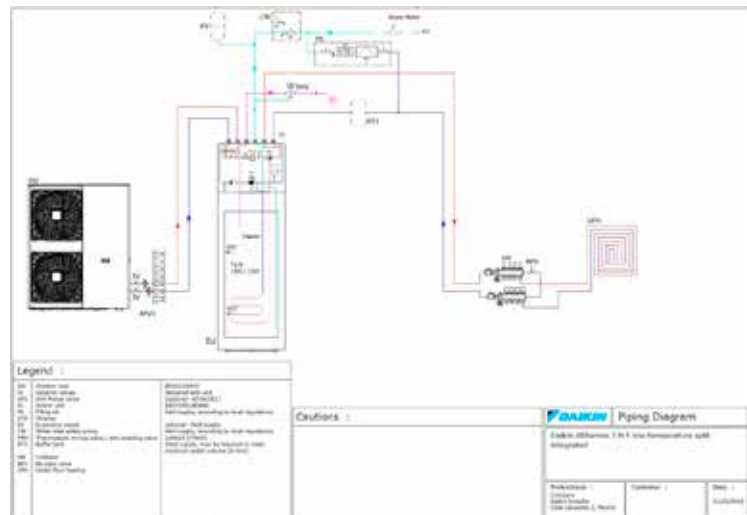
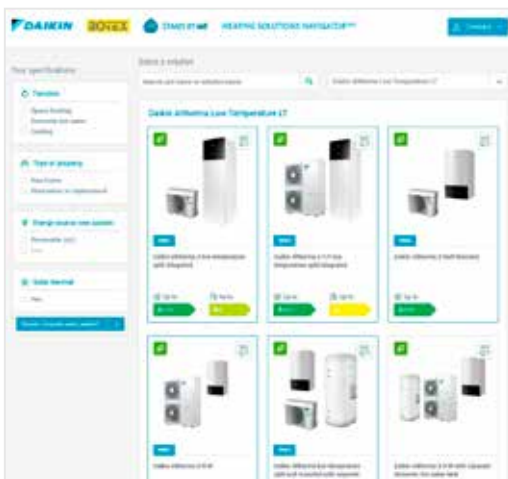


# Heating Solutions Navigator



## 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



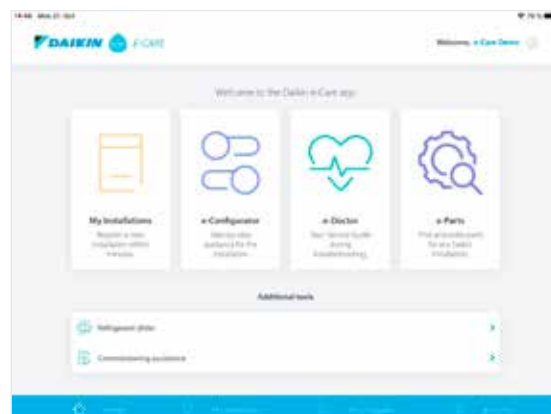
# E-Care app



The Daikin e-Care app wants to make the life of a Daikin installer easier by offering Stand By Me registrations via QR code scanning, easy configuration of your heating installation and troubleshooting via the e-Doctor part.

### NEW

Order your **spareparts** directly via the e-Care app, update the settings of your installation with a **Wifi USB** stick and avoid any possible mistake during commissioning of your installation thanks to the easy guidance of the **Commissioning Assistant**.





# STAND BY ME

[www.standbyme.daikin.eu](http://www.standbyme.daikin.eu)

Stand By Me and the Heating Solutions Navigator are built to connect between yourself and Daikin to make your life easier.

Interested in how the platform operates? Please scan the QR-codes to see a demo for each tool.



## HEATING SOLUTIONS NAVIGATOR (HSN)

[professional.standbyme.daikin.eu](http://professional.standbyme.daikin.eu)

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



### SIZING

#### HSN Heat loss calculation tool/ Room by Room

The optional 'Room by Room' heat load calculation tool, is a tool which enable you to calculate the heat load in a property. Next to the Room by Room, a simplified heat load calculation is available.

### SOLAR

#### HSN Solar Selection Tool

The Solar Selection Tool shows the benefits of a DAIKIN solar system and supports professionals in selecting the right solar system for a house.

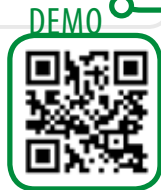
### PIPE SIZING TOOL

Calculate the maximum hydronic piping length from the indoor unit to the outdoor unit based on the emitter pressure drop or the other way around.

### ECONOMIC VIABILITY STUDY

Compare your Daikin solution with a benchmark solution.

### INSTALLED BASE MANAGEMENT



### RADIATOR

#### HSN Radiator Selection Tool

This Radiator selector tool supports customers in selecting the appropriate radiator size for each room.

### EQUIPMENT LIST

### UNDERFLOOR HEATING

The underfloor Heating Tool gives the customer an indication of material that is needed for a specific project. A detailed calculation and floorplan can also be asked via this toolbox.

### PIPING & WIRING

Customized piping and wiring diagrams are generated for each and every project, taking into account many parameters such as heat generator, zoning, emitter type and options.

### CONFIGURATION TOOL

The e-Configurator is a web based tool and app which allows installers to configure the settings of Daikin Altherma heat pumps remotely. Thanks to its user friendly and intuitive interface, configuration can be completed in a couple of steps. Then it can be stored as a pdf or saved in the USB stick/SD card to upload it in the heat pump on site.





**CONTACT YOUR LOCAL  
SBM/HSN SPECIALIST**

**REGISTRATION**

Installation Registration SBM is an after-sales service tool where end-users can extend the warranty on their installation or order maintenance packages. All Daikin professionals have an essential role in these service offerings.

With Stand By Me, you, as Daikin professional, can keep a complete digital logbook of your installed base of Daikin products and consult it via any mobile device.

**COMMISSIONING**

**COMMISSIONING ASSISTANT**

Use this special hydro check module during commissioning.



**WARRANTY EXTENSION**

**SYSTEM STATUS NOTIFICATION**

**SYSTEM STATUS NOTIFICATION**

Receive malfunction codes of your installations directly on your Stand By Me platform or via a notification in the e-Care app.

**MAINTENANCE**



**E-DOCTOR**

**Part of e-Care**  
Daikin e-Doctor is part of e-Care, an application to guide our Daikin colleagues and installers in troubleshooting a unit.

**REPAIR**

**SPARE PARTS ORDERING**

ULTIMATE CUSTOMER SATISFACTION

**E-CARE**



**DAIKIN**

*Stand By Me, a journey towards customer satisfaction*



# 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

- › Delivering temperatures up to 65 °C at high efficiency, the R-32 Daikin Altherma 3 R is suitable for both underfloor heating and radiators and retains its pedigree trademark in frost protection down to -25 °C, ensuring reliable operation even in the coldest climates
- › The optimal combination of Bluevolution technology offers the highest performance:
  - Seasonal efficiency up to A+++ (energy label 2019)
  - 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 work: all key hydraulic elements are already factory mounted
- › The new design enables that all servicing can be done from the front and all piping can be accessed at the top of the unit
- › Stylish modern outlook
- › The outdoor unit is tested and charged with refrigerant, installation time is reduced

### Easy commissioning

- › Integrated high resolution colour interface
- › Quick wizard allowing commissioning in maximum 9 easy steps to have the full system ready to work
- › Next to that the 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 compressors maximises the efficiency of the new R-32 Daikin Altherma 3 R at each outdoor temperature, assuring consistent room temperatures at all times.
- › To control on a daily basis your home temperature, settings can be done 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**

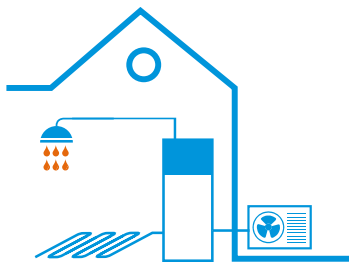
providing the highest savings on running costs

### ✓ Perfect fit for **new builds**,

as well as for low energy houses

### ✓ A leaving water temperature up to 65 °C makes it also **a perfect 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



#### 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



# 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.

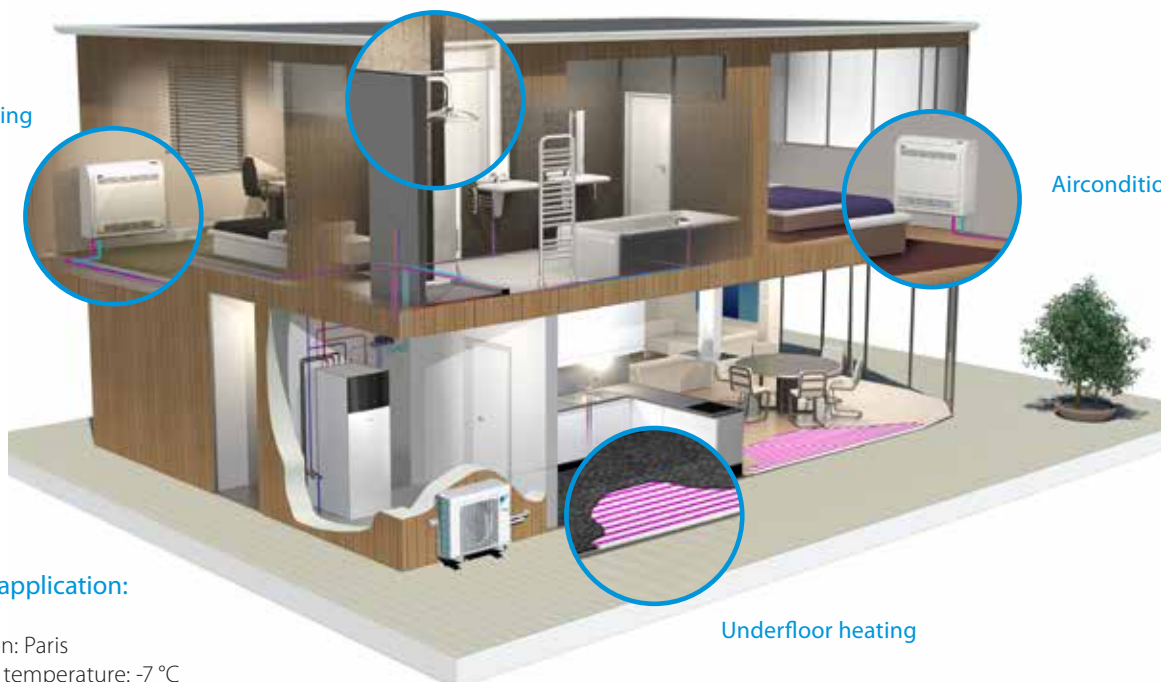
### All in one system to save installation space and time

- › 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 as well as back-up heater less models are available
- › Dedicated Bi-Zone models allowing temperature monitoring for 2 zones connect underfloor heating to radiators for optimise efficiency

Domestic hot water

Heating

Airconditioning



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

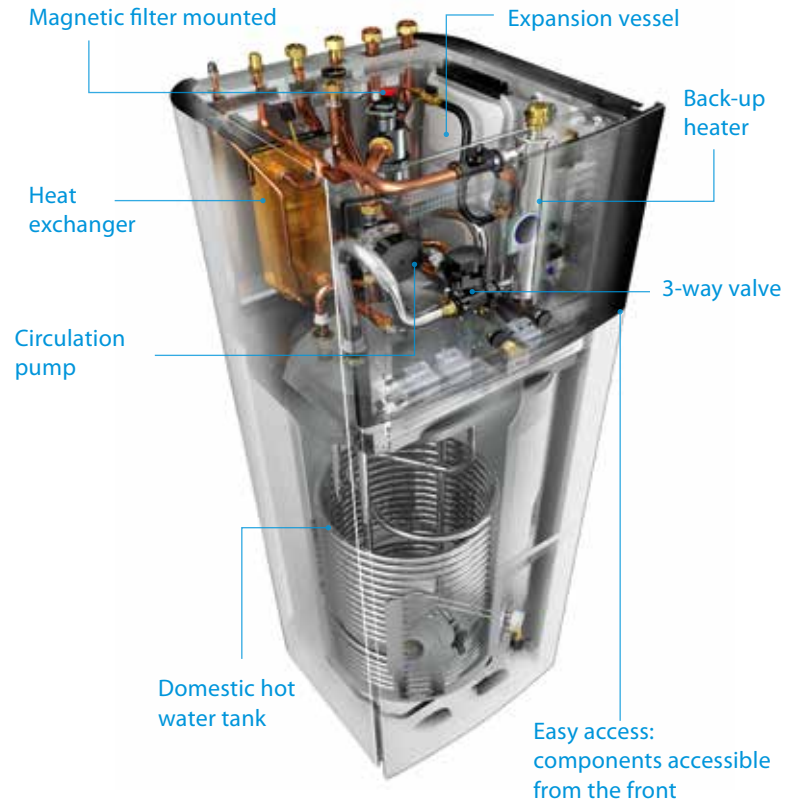
Compared to the traditional split version for a wall mounted indoor unit and a separate domestic hot water tank, the integrated indoor unit greatly reduces the installation space required.

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 an 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 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 via the new MMI 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 MMI. It's super easy to use with just a few buttons and 2 navigational knobs.

## Beautiful design

The MMI was especially designed to be very intuitive. The high contrasted colour screen delivers stunning and practical visuals that really help you as installer or service engineer.

## Integrated indoor unit



# Daikin Altherma 3 R F

Floor standing air to water heat pump for heating and hot water; 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 6 or 9 kW
- > Outdoor unit extracts heat from the outdoor air, even at -25 °C



011-1W0218 → 222  
011-1W0245, 247  
011-1W0249 → 251

up to **A+++** **A+** **65 °C** **R-32**

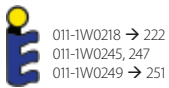
Efficiency data		EHVH + ERGA		04S18D-6V(G)+ 04DV	04S23D-6V(G) + 04DV	08S18D6V(G)/D9W(G) + 06DV	08S23D6V(G)/D9W(G) + 06DV	08S18D6V(G)/D9W(G) + 08DV	08S23D6V(G)/D9W(G) + 08DV	
Heating capacity	Nom.			4.30 (1) / 4.60 (2)		6.00 (1) / 5.90 (2)		7.50 (1) / 7.80 (2)		
Power input	Heating	Nom.			0.850 (1) / 1.26 (2)		1.24 (1) / 1.69 (2)		1.63 (1) / 2.23 (2)	
COP				5.10 (1) / 3.65 (2)		4.85 (1) / 3.50 (2)		4.60 (1) / 3.50 (2)		
Space heating	Average climate water outlet 55 °C	General	SCOP		3.26					
			ηs (Seasonal space heating efficiency)	%	127					
	Seasonal space heating eff. class		A++							
	Average climate water outlet 35 °C	General	SCOP		4.48		4.47		4.56	
ηs (Seasonal space heating efficiency)			%	176				179		
Seasonal space heating eff. class		A+++								
Domestic hot water heating	General	Declared load profile		L	XL	L	XL	L	XL	
	Average climate	ηwh (water heating efficiency)		125	133	125	133	125	133	
	Water heating energy efficiency class		A+							
Indoor Unit				EHVH	04S18D6V(G)	04S23D6V(G)	08S18D-6V(G)/D9W(G)	08S23D-6V(G)/D9W(G)	08S18D-6V(G)/D9W(G)	08S23D-6V(G)/D9W(G)
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
Tank	Water volume		l	180	230	180	230	180	230	
	Maximum water temperature		°C	70						
	Maximum water pressure		bar	10						
	Corrosion protection		Pickling							
Operation range	Heating	Ambient	Min.~Max.	°C	5~30					
		Water side	Min.~Max.	°C	15~65					
	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	04DV	06DV		08DV		
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			
	Cooling	Nom.	dBA	61	62		62			
Sound pressure level	Heating	Nom.	dBA	44	47		49			
	Cooling	Nom.	dBA	48	49		50			
Power supply	Name/Phase/Frequency/Voltage			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).

# 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



Efficiency data		EHVX + ERGA		04S18D3V(G)/D6V(G) + 04DV		04S23D3V(G)/D6V(G) + 04DV		08S18D6V(G)/D9W(G) + 06DV		08S23D6V(G)/D9W(G) + 06DV		08S18D6V(G)/D9W(G) + 08DV		08S23D6V(G)/D9W(G) + 08DV		
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		0,940 (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							5.17 (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>sp</sub> (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	η <sub>sp</sub> (Seasonal space heating efficiency)	%		179		178		181						
			Seasonal space heating eff. class					A+++								
			SCOP			4.54		4.52		4.61						
			η <sub>sp</sub> (Seasonal space heating efficiency)	%		179		178		181						
Domestic hot water heating	General	Declared load profile		L		XL		L		XL		L		XL		
		η <sub>wh</sub> (water heating efficiency)	%		127		134		125		133		125		133	
		Water heating energy efficiency class							A+							

Indoor Unit		EHVX		04S18D3V(G)/D6V(G)		04S23D3V(G)/D6V(G)		08S18D6V(G)/D9W(G)		08S23D6V(G)/D9W(G)		08S18D6V(G)/D9W(G)		08S23D6V(G)/D9W(G)			
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			
	Water volume	l		180		230		180		230		180		230			
Tank	Maximum water temperature		°C		70		70		70		70		70				
	Maximum water pressure		bar		10		10		10		10		10				
	Corrosion protection				Pickling		Pickling		Pickling		Pickling		Pickling				
Operation range	Heating	Ambient	Min.~Max.	°C		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			
	Cooling	Ambient	Min.~Max.	°CDB		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			
	Domestic hot water	Ambient	Min.~Max.	°CDB		5~35		5~35		5~35		5~35		5~35			
		Water side	Max.	°C		70		70		70		70		70			
Sound power level	Nom.	dBA		42		42		42		42		42					
Sound pressure level	Nom.	dBA		28		28		28		28		28					
Outdoor Unit		ERGA		04DV		06DV		08DV									
Dimensions	Unit	Height x Width x Depth		mm		740 x 884 x 388		740 x 884 x 388									
Weight	Unit	kg		58.5		58.5		58.5									
Compressor	Quantity	1		1		1		1									
	Type			Hermetically sealed swing compressor		Hermetically sealed swing compressor		Hermetically sealed swing compressor									
Operation range	Cooling	Min.~Max.	°CDB		10~43		10~43		10~43								
	Domestic hot water	Min.~Max.	°CDB		-25~35		-25~35		-25~35								
Refrigerant	Type	R-32		R-32		R-32		R-32									
	GWP	675.0		675.0		675.0		675.0									
	Charge	kg		1.50		1.50		1.50									
	Charge	TCO,Eq		1.01		1.01		1.01									
Sound power level	Heating	Nom.	dBA		58		60		62								
		Nom.	dBA		61		62		62								
	Cooling	Nom.	dBA		44		47		49								
		Nom.	dBA		48		49		50								
Power supply	Name/Phase/Frequency/Voltage		Hz/V		V3/IN~/50/230		V3/IN~/50/230		V3/IN~/50/230								
Current	Recommended fuses		A		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).

# Daikin Altherma 3 R F

Floor standing integrated with **two different temperature zones monitoring**







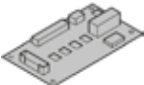
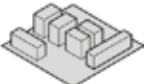




- › A combined stainless steel domestic hot water tank of 180 or 230 l and heat pump for easy installation
- › Inclusion of all hydraulic components means no third party components are required
- › PCB board and hydraulic components are located in the front for easy access
- › Small installation footprint of 595 x 625 mm
- › Integrated back-up heater choice of 6 or 9 kW
- › Outdoor unit extracts heat from the outdoor air, even at -25 °C



Efficiency data				EHVZ + ERGA	04S18D-6V(G) + 04DV	08S18D6V(G)/D9W(G) + 06DV	08S23D6V(G)/D9W(G) + 06DV	08S18D6V(G)/D9W(G) + 08DV	08S23D6V(G)/D9W(G) + 08DV	
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)		
COP					5.10 (1) / 3.65 (2)	4.85 (1) / 3.50 (2)		4.60 (1) / 3.50 (2)		
Space heating	Average climate water outlet 55 °C	General	SCOP		3.26		3.32			
			η <sub>sp</sub> (Seasonal space heating efficiency)	%	127		130			
	Average climate water outlet 35 °C	General	SCOP		4.48	4.47		4.56		
			η <sub>sp</sub> (Seasonal space heating efficiency)	%	176		179			
			Seasonal space heating eff. class	A++		A+++				
Domestic hot water heating	General	Declared load profile			L	XL		L	XL	
	Average climate		η <sub>ywh</sub> (water heating efficiency)	%	125		133		125	133
			Water heating energy efficiency class	A+						
Indoor Unit				EHVZ	04S18D6V(G)	08S18D6V(G)/D9W(G)	08S23D6V(G)/D9W(G)	08S18D6V(G)/D9W(G)	08S23D6V(G)/D9W(G)	
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	
Weight	Unit				kg	125	133	125	133	
	Water volume				l	180	230	180	230	
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					
	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	04DV	06DV	08DV			
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				
	Control				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	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).

# Options

		Type	Material name	Daikin Altherma 3 R F
Controllers		Remote user interface	BRC1HHDW/S/K	●
		LAN Adapter + PV Solar connection	BRP069A61	●
		LAN only	BRP069A62	●
		Room thermostat (wired)	EKRTWA	●
		Room thermostat (wireless)	EKRTR1	●
		External sensor	EKRTETS	●
Adapter		Demand PCB	EKRP1AHTA	●
		Digital I/O PCB	EKRP1HBAA	●
Installation		Bi-Zone kit (watts kit)	BZKA7V3	● (excluding EHVZ)
Sensors		Remote indoor sensor	KRCS01-1	●
		Remote outdoor sensor	EKRSCA-1	●
Others		PC USB Cable	EKPCAB4	●
		Conversion kit	EKHBCONV	●
		Low sound cover for ERGA-D	EKLN-A	●

# 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

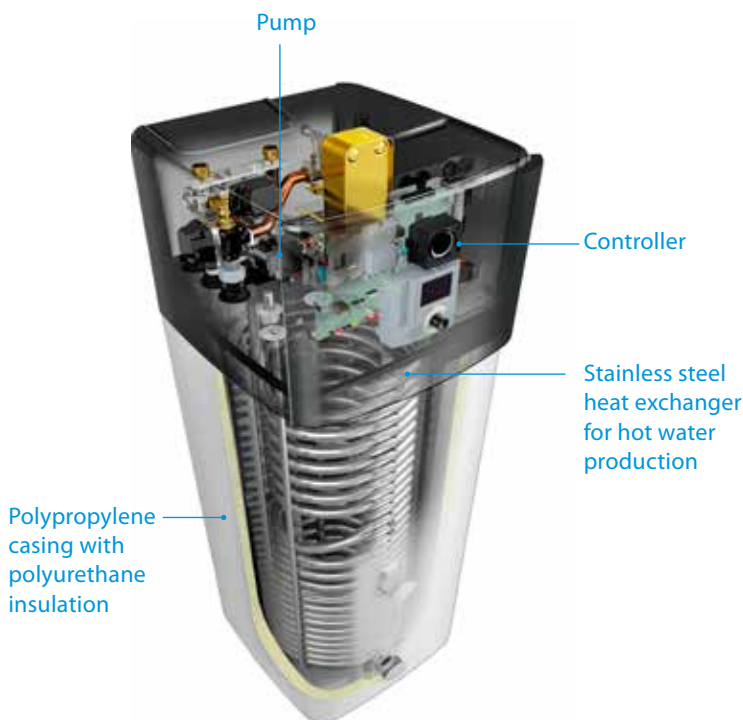
### Innovative and high-quality tank

- › 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.



## 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

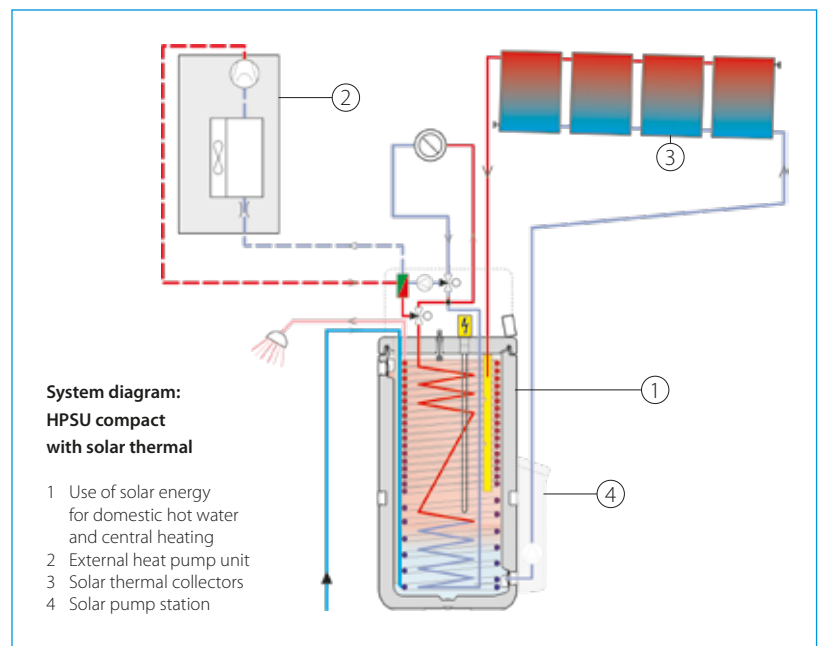
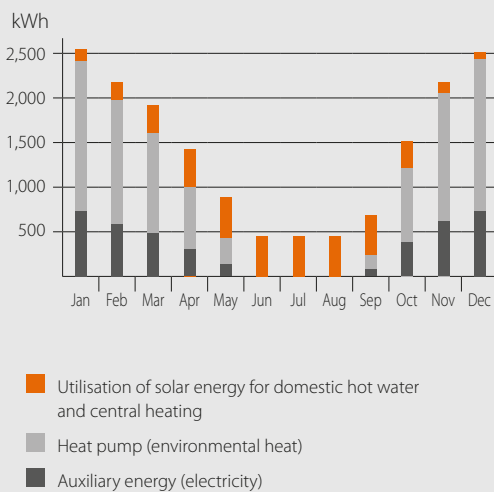
### Pressureless (drain-back) solar system (EHS-D(2), EHSX-D(2))

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

### Pressurised solar system (EHSXB-D(2), EHSXB-D(2))

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

Monthly energy consumption of an average detached house



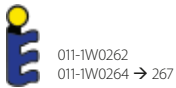
# Daikin Altherma 3 R ECH<sub>2</sub>O

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

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



up to up to



Efficiency data		EHS + ERGA		04P30D2 + 04DV	08P30D2 + 06DV	08P50D + 06DV	08P30D2 + 08DV	08P50D + 08DV	
Heating capacity	Nom.			kW		4.30 (1) / 4.60 (2)	6.00 (1) / 5.90 (2)		
Power input	Heating	Nom.		kW		0.85 (1) / 1.26 (2)	1.24 (1) / 1.69 (2)		
COP					5.10 (1) / 3.65 (2)		4.85 (1) / 3.50 (2)		
Space heating	Average climate water outlet 55 °C	General	SCOP			3.26		3.32	
			η <sub>s</sub> (Seasonal space heating efficiency)	%		127		130	
	Seasonal space heating eff. class			A++					
	Average climate water outlet 35 °C	General	SCOP			4.48	4.47		4.56
η <sub>s</sub> (Seasonal space heating efficiency)			%		176		179		
Seasonal space heating eff. class			A+++						
Domestic hot water heating	General	Declared load profile		L		XL	L	XL	
	Average climate	η <sub>wh</sub> (water heating efficiency)		%		115	106	115	106
Water heating energy efficiency class			A+						
Indoor Unit		EHS		04P30D2	08P30D2	08P50D	08P30D2	08P50D	
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	1,891 x 595 x 615	1,896 x 790 x 790
Weight	Unit			kg		73	93	73	93
Tank	Water volume		l		294		477	294	477
	Maximum water temperature		°C		85				
Operation range	Heating	Ambient	Min.~Max.		°C		-25~-25		
		Water side	Min.~Max.		°C		18~65		
	Domestic hot water	Ambient	Min.~Max.		°CDB		-25~-35		
		Water side	Min.~Max.		°C		25~55		
Sound power level	Nom.		dBA		39				
Outdoor Unit		ERGA		04DV	06DV	08DV			
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					
	Charge	TCO,Eq		1.01					
Control		Expansion valve							
Sound power level	Heating	Nom.		dBA		58	60	62	
	Cooling	Nom.		dBA		61	62		
Sound pressure level	Heating	Nom.		dBA		44	49		
	Cooling	Nom.		dBA		48	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).

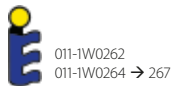
# Daikin Altherma 3 R ECH<sub>2</sub>O

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

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



up to up to



Efficiency data		EHSB + ERGA		04P30D2 + 04DV	08P30D2 + 06DV	08P50D + 06DV	08P30D2 + 08DV	08P50D + 08DV	
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	0.85 (1) / 1.26 (2)	1.24 (1) / 1.69 (2)	1.63 (1) / 2.23 (2)	
COP						5.10 (1) / 3.65 (2)	4.85 (1) / 3.50 (2)	4.60 (1) / 3.50 (2)	
Space heating	Average climate water outlet 55 °C	General	SCOP			3.26		3.32	
			η <sub>s</sub> (Seasonal space heating efficiency)			127		130	
	Seasonal space heating eff. class			A++					
	Average climate water outlet 35 °C	General	SCOP	4.48	4.47		4.56		
η <sub>s</sub> (Seasonal space heating efficiency)					176		179		
Seasonal space heating eff. class			A+++						
Domestic hot water heating	General	Declared load profile		L		XL	L	XL	
	Average climate	η <sub>wh</sub> (water heating efficiency)		115		110	115	110	
	Water heating energy efficiency class		A+		A		A+	A	
Indoor Unit		EHSB		04P30D2	08P30D2	08P50D	08P30D2	08P50D	
Casing	Colour	Traffic white (RAL9016) / Dark grey (RAL7011)							
	Material	Impact resistant polypropylene							
Dimensions	Unit	Height x Width x Depth		1,891 x 595 x 615		1,896 x 790 x 790	1,891 x 595 x 615	1,896 x 790 x 790	
Weight	Unit			73		93	73	93	
Tank	Water volume				294		477	294	477
	Maximum water temperature						85		
Operation range	Heating	Ambient	Min.~Max.			-25~-25			
		Water side	Min.~Max.			18~-65			
	Domestic hot water	Ambient	Min.~Max.			-25~-35			
		Water side	Min.~Max.			25~-55			
Sound power level	Nom.						39		
Outdoor Unit		ERGA		04DV	06DV	08DV			
Dimensions	Unit	Height x Width x Depth		740 x 884 x 388					
Weight	Unit			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				
	Charge		TCO,Eq		1.01				
Control				Expansion valve					
Sound power level	Heating	Nom.	dBA		58	60		62	
	Cooling	Nom.	dBA		61		62		
Sound pressure level	Heating	Nom.	dBA		44		49		
	Cooling	Nom.	dBA		48		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).

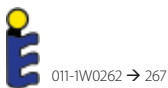
# Daikin Altherma 3 R ECH<sub>2</sub>O

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



up to **A+++**      up to **A+**      **65°C**      **R-32**



Efficiency data				EHSX + ERGA	04P30D2 + 04DV	04P50D + 04DV	08P30D2 + 06DV	08P50D + 06DV	08P30D2 + 08DV	08P50D + 08DV		
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	0.85 (1) / 1.26 (2)		1.24 (1) / 1.69 (2)		1.63 (1) / 2.23 (2)			
Cooling capacity	Nom.			kW	5.56 (1) / 4.37 (2)		5.96 (1) / 4.87 (2)		6.25 (1) / 5.35 (2)			
Power input	Cooling	Nom.		kW	0.94 (1) / 1.14 (2)		1.06 (1) / 1.33 (2)		1.16 (1) / 1.51 (2)			
COP					5.10 (1) / 3.65 (2)		4.85 (1) / 3.50 (2)		4.60 (1) / 3.50 (2)			
EER					5.94 (1) / 3.84 (2)		5.61 (1) / 3.67 (2)		5.40 (1) / 3.54 (2)			
Space heating	Average climate water outlet 55 °C	General	SCOP			3.26				3.32		
			η <sub>s</sub> (Seasonal space heating efficiency)	%			127				130	
	Seasonal space heating eff. class						A++					
	Average climate water outlet 35 °C	General	SCOP			4.48		4.47		4.56		
η <sub>s</sub> (Seasonal space heating efficiency)			%			176				179		
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)		%	115	106	115	106	115	106		
	Water heating energy efficiency class			A+			A			A+		
Indoor Unit				EHSX	04P30D2	04P50D	08P30D2	08P50D	08P30D2	08P50D		
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	1,891 x 595 x 615	1,896 x 790 x 790	1,891 x 595 x 615	1,896 x 790 x 790		
	Weight	Unit			kg	73	93	73	93	73	93	
Tank	Water volume			l	294	477	294	477	294	477		
	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.			dBA	39							
Outdoor Unit				ERGA	04DV	06DV	08DV					
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			1.50								
	Charge Control			TCO:Eq								
Expansion valve												
Sound power level	Heating	Nom.		dBA	58	60	62					
	Cooling	Nom.		dBA	61	62	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								

(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).

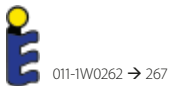
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- › Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- › Bivalent system: combinable with a secondary heat source
- › Heat loss is reduced to a minimum thanks to the high quality insulation
- › App control possible for managing heating and hot water operation



up to **A+++** up to **A+** **65°C** **R-32**



Efficiency data				EHSXB + ERGA	04P30D2 + 04DV	04P50D + 04DV	08P30D2 + 06DV	08P50D + 06DV	08P30D2 + 08DV	08P50D + 08DV		
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	0.85 (1) / 1.26 (2)		1.24 (1) / 1.69 (2)		1.63 (1) / 2.23 (2)			
Cooling capacity	Nom.			kW	5.56 (1) / 4.37 (2)		5.96 (1) / 4.87 (2)		6.25 (1) / 5.35 (2)			
Power input	Cooling Nom.			kW	0.94 (1) / 1.14 (2)		1.06 (1) / 1.33 (2)		1.16 (1) / 1.51 (2)			
COP					5.10 (1) / 3.65 (2)		4.85 (1) / 3.50 (2)		4.60 (1) / 3.50 (2)			
EER					5.94 (1) / 3.84 (2)		5.61 (1) / 3.67 (2)		5.40 (1) / 3.54 (2)			
Space heating	Average climate water outlet 55 °C	General	SCOP			3.26				3.32		
			η <sub>sp</sub> (Seasonal space heating efficiency)	%			127				130	
	Seasonal space heating eff. class						A++					
	Average climate water outlet 35 °C	General	SCOP			4.48		4.47		4.56		
η <sub>sp</sub> (Seasonal space heating efficiency)			%			176				179		
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)		%	115	110	115	110	115	110		
	Water heating energy efficiency class			A+			A			A+		
Indoor Unit				EHSXB	04P30D2	04P50D	08P30D2	08P50D	08P30D2	08P50D2		
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	1,891 x 595 x 615	1,896 x 790 x 790	1,891 x 595 x 615	1,896 x 790 x 790		
	Weight	Unit			kg	76	99	76	99	76	99	
Tank	Water volume			l	294	477	294	477	294	477		
	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.			dBA	39							
Outdoor Unit				ERGA	04DV	06DV		08DV				
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							
	Charge Control			TCO <sub>Eq</sub>	1.01							
Sound power level	Control			Expansion valve								
	Heating	Nom.	dBA	58	60		62					
	Cooling	Nom.	dBA	61	62		62					
	Cooling	Nom.	dBA	44	47		49					
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	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).

# Options

Type	Daikin Altherma 3 R ECH <sub>2</sub> 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 EKBU9C + 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-D EKLN-A



# Daikin Altherma 3 R W

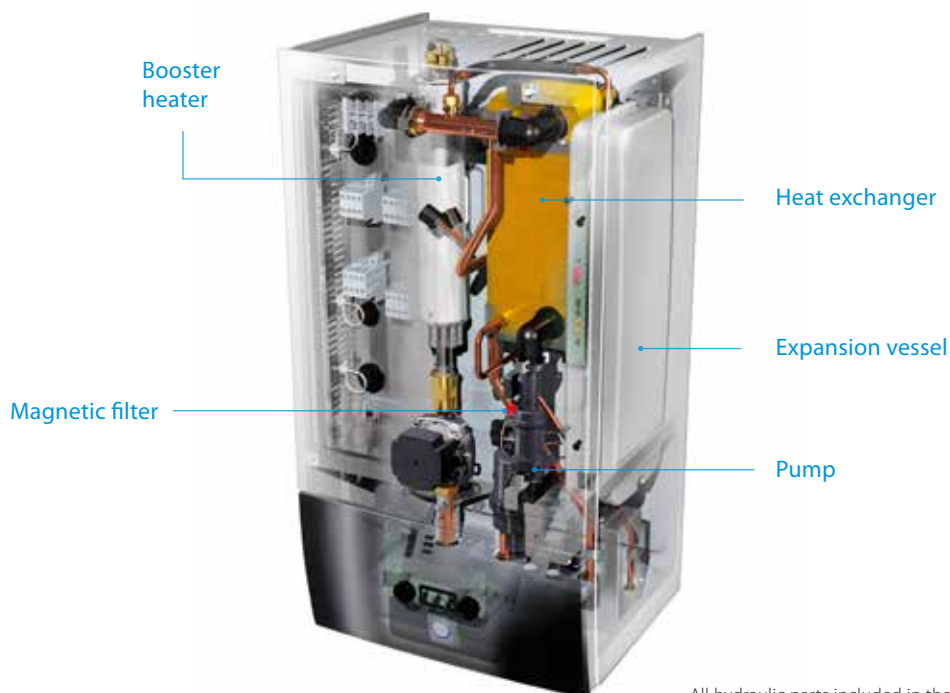
Wall mounted unit

## Why choose Daikin wall mounted unit?

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

### High flexibility for installation and domestic hot water connection

- › Inclusion of all hydraulic components means no third party components are required
- › PCB board and hydraulic components are located in the front for easy access
- › Compact dimensions allows for small installation space, as almost no side clearances are required
- › The unit's sleek design blends in with other household appliances
- › Combine with a stainless steel or ECH<sub>2</sub>O thermal store



All hydraulic parts included in the compact wall mounted unit.



## Flexibility in providing domestic hot water

If the end user only requires hot water and installation height is limited, a separate tank can provide the required installation flexibility. At the side of our standard stainless steel tanks, we propose the ECH<sub>2</sub>O thermal stores.

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

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

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



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

# Daikin Altherma 3 R W

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



Efficiency data		EHBH + ERGA		04D6V + 04DV	08D6V + 06DV	08D9W + 06DV	08D6V + 08DV	08D9W + 08DV
Heating capacity	Nom.			kW	6.00 (1) / 5.90 (2)		7.50 (1) / 7.80 (2)	
Power input	Heating	Nom.		kW	1.24 (1) / 1.69 (2)		1.63 (1) / 2.23 (2)	
COP					5.10 (1) / 3.65 (2)		4.60 (1) / 3.50 (2)	
Space heating	Average climate water outlet 55 °C	General	SCOP	3.26		3.32		
			ηs (Seasonal space heating efficiency)	127		130		
	Average climate water outlet 35 °C	General	Seasonal space heating eff. class	A++				
			SCOP	4.48	4.47	4.56		
			ηs (Seasonal space heating efficiency)	176		179		
			Seasonal space heating eff. class	A+++				
Indoor Unit		EHBH		04D6V	08D6V	08D9W	08D6V	08D9W
Casing	Colour			White + Black				
	Material			Resin, sheet metal				
Dimensions	Unit	Height x Width x Depth		mm				
Weight	Unit			kg	42.0	42.4	42.0	42.4
			840 x 440 x 390					
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		04DV	06DV	08DV		
Dimensions	Unit	Height x Width x Depth		mm				
Weight	Unit			kg				
	Quantity			1				
Compressor	Type			Hermetically sealed swing compressor				
			Min.~Max.		°CDB			
Operation range	Cooling			10~43				
	Domestic hot water			-25~35				
Refrigerant	Type			R-32				
	GWP			675.0				
	Charge			kg				
	Charge			TCO:Eq				
				1.01				
				Expansion valve				
Sound power level	Heating	Nom.	dBA	58	60	62		
	Cooling	Nom.	dBA	61	62		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).

# Daikin Altherma 3 R W

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







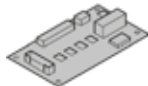
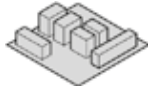





- › Inclusion of all hydraulic components means no third party components are required
- › PCB board and hydraulic components are located in the front for easy access
- › Compact dimensions allows for small installation space, as almost no side clearances are required
- › The unit's sleek design blends 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

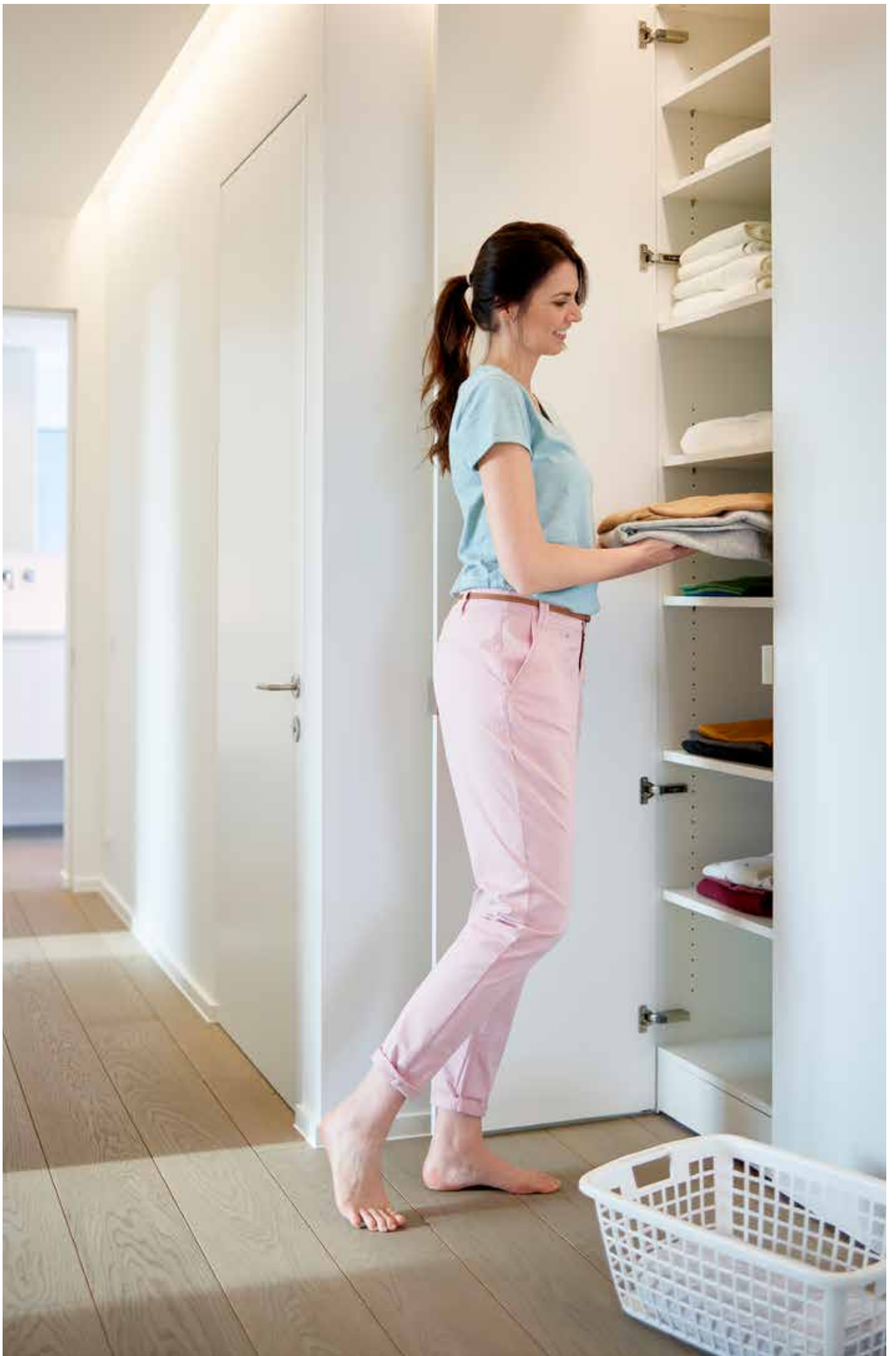


Efficiency data		EHBX + ERGA		04D6V + 04DV	08D6V + 06DV	08D9W + 06DV	08D6V + 08DV	08D9W + 08DV
Heating capacity	Nom.			kW	4.30 (1) / 4.60 (2)	6.00 (1) / 5.90 (2)	7.50 (1) / 7.80 (2)	
Power input	Heating	Nom.		kW	0.850 (1) / 1.26 (2)	1.24 (1) / 1.69 (2)	1.63 (1) / 2.23 (2)	
Cooling capacity	Nom.			kW	4.86 (1) / 4.52 (2)	5.96 (1) / 5.09 (2)	6.25 (1) / 5.44 (2)	
Power input	Cooling	Nom.		kW	0.940 (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					5.17 (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++			
	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		
Seasonal space heating eff. class				A+++				
Indoor Unit		EHBX		04D6V	08D6V	08D9W	08D6V	08D9W
Casing	Colour	White + Black						
	Material	Resin, sheet metal						
Dimensions	Unit	Height x Width x Depth		mm				
Weight	Unit			kg		42.0		42.4
							840 x 440 x 390	
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		04DV	06DV	08DV		
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>2</sub> Eq		1.01		
Control			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		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).

# Options

	Type	Material name	Daikin Altherma 3 R W	
Controllers		Remote user interface	BRC1HHDW/S/K	●
		LAN Adapter + PV Solar connection	BRP069A61	●
		LAN only	BRP069A62	●
		Room thermostat (wired)	EKRTWA	●
		Room thermostat (wireless)	EKRTR1	●
		External sensor	EKRTETS	●
Adapter		Demand PCB	EKRP1AHTA	●
		Digital I/O PCB	EKRP1HBAA	●
Back-up heater		Back-up heater kit	EKLBUHCB6W1	
Installation		Bi-Zone kit (watts kit)	BZKA7V3	●
Sensors		Remote indoor sensor	KRCS01-1	●
		Remote outdoor sensor	EKRSCA-1	●
Others		PC USB Cable	EKPCAB4	●
		Conversion kit	EKHBCONV	●
		Conversion kit	EKHVCONV	●
	Low sound cover for ERGA-D	EKLN-A	●	



# Thermal stores and tanks

Hot water heating installation solutions

## Why choose a Daikin Altherma ST thermal store or domestic hot water tank?

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



Thermal store



Stainless steel tank

## Domestic hot water tank

### Stainless steel tanks

#### Comfort

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

#### Efficiency

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

#### Reliability

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



# The ECH<sub>2</sub>O thermal store range

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

Combine your monobloc with a thermal store to achieve the ultimate comfort at home.

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

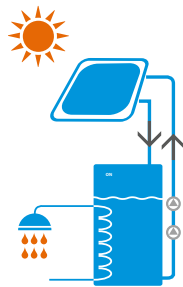
Built for small and large homes, customers can choose between a pressureless and a pressurised hot water system.

## Efficiency

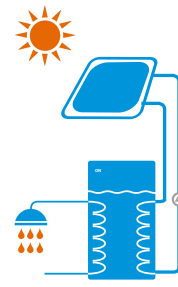
- › Fit for the future: maximise renewable energy sources
- › Intelligent Heat Storage Management: ensures continuous heating during defrost mode, and uses stored heat for space heating
- › High-quality insulation keeps heat loss to a minimum

## Reliability

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



Drain-back solar system



Pressurised solar system

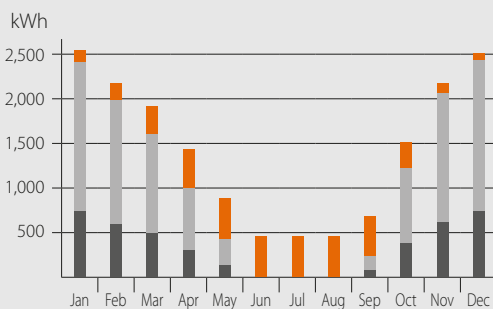
## Pressureless (drain-back) solar system

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

## Pressurised solar system

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

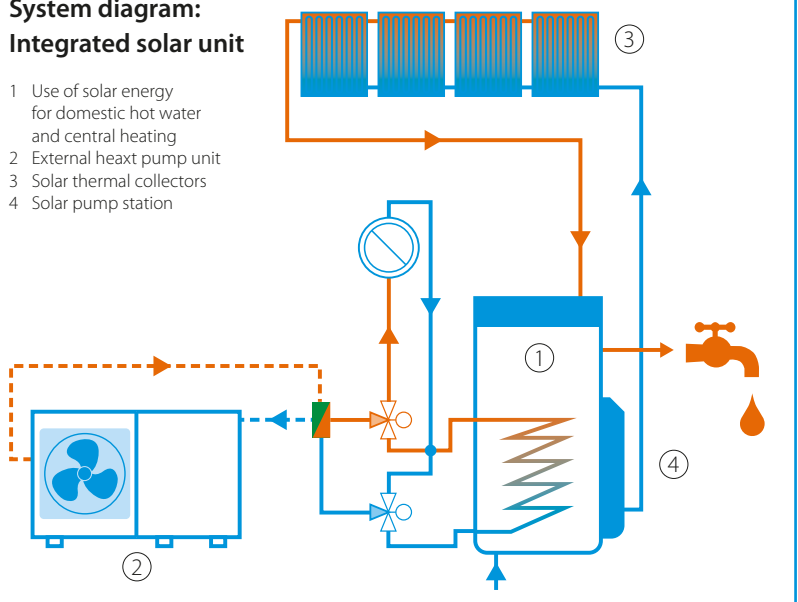
## Monthly energy consumption of an average detached house



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

## System diagram: Integrated solar unit

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



# Daikin Altherma ST Thermal store

## Plastic domestic hot water tank with solar support

- › The thermal store EKHWP\* is designed to work with Daikin Altherma heat pumps
- › 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
- › Available in 300 and 500 liters



Accessory		EKHWP	300B	500B	300PB	500PB	54419B	
Casing	Colour	Traffic white (RAL9016) / Dark grey (RAL7011)						
	Material	Impact resistant polypropylene						
Dimensions	Unit	Width	mm	595	790	595	790	
		Depth	mm	615	790	615	790	
		Height	mm	1,646	1,658	1,646	1,658	
Weight	Unit	Empty	kg	53	76	56	82	71
		Water volume	l	294	477	294	477	
Tank	Material	Polypropylene						
	Maximum water temperature	°C	85					
	Insulation	Heat loss	kWh/24h	1.5	1.7	1.5	1.7	
			Energy efficiency class	B				
	Standing heat loss	W	64	72	64	72		
	Storage volume	l	290	393	290	393		
	Heat exchanger	Domestic hot water	Quantity	1				
Tube material			Stainless steel (DIN 1.4404)					
Face area			m²	5.6	5.8	5.6	5.9	5.8
Internal coil volume			l	27.8	28.9	27.8	29	28.9
Operating pressure			bar	6				
Charging		Quantity	1					
		Tube material	Stainless steel (DIN 1.4404)					
		Face area	m²	2.66	3.7	2.66	3.7	1.95
		Internal coil volume	l	12.9	18.1	12.9	18.1	10
		Operating pressure	bar	3				
Auxiliary solar heating		Tube material		-	Stainless steel (DIN 1.4404)	-	Stainless steel (DIN 1.4404)	
		Face area	m²	-	0.76	-	0.76	
		Internal coil volume	l	-	3.9	-	3.9	
	Operating pressure	bar	-	3	-	3		



# Domestic hot water tank

Stainless steel domestic hot water tank

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



EKHWS(U)-D



**B**



Accessory		EKHWS(U)		150D3V3	180D3V3	200D3V3	250D3V3	300D3V3	
Casing	Colour	Neutral white							
	Material	Epoxy coated steel / Epoxy-coated mild steel							
Dimensions	Unit	Height	Tank	mm	1,000	1,164	1,264	1,535	1,745
	Unit	Empty		kg	45	50	53	58	63
Tank	Water volume			l	145	174	192	242	292
	Material	Stainless steel (EN 1.4521)							
	Maximum water temperature			°C	75				
	Insulation	Heat loss		kWh/24h	1.1	1.2	1.3	1.4	1.6
	Energy efficiency class	B							
	Standing heat loss			W	45	50	55	60	68
	Storage volume			l	145	174	192	242	292
Heat exchanger	Domestic hot water	Quantity	1						
		Tube material	Stainless steel (EN 1.4521)						
		Face area		m <sup>2</sup>	1.050	1.400	1.800		
		Internal coil volume		l	4.9	6.5	8.2		
		Operating pressure		bar	10				
Booster heater	Capacity		kW	3					
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230					

# Madoka

## The beauty of simplicity



Silver  
RAL 9006 (metallic)  
BRC1HHDS



Black  
RAL 9005 (matt)  
BRC1HHDK



White  
RAL9003 (glossy)  
BRC1HHDW

## User-friendly wired remote controller with premium design

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



reddot award 2018  
winner



## Madoka wired remote controller for Daikin Altherma 3 heat pumps

A new generation of user interface, redesigned and intuitive



### Intuitive control with a premium design

The smooth curves of the Madoka controller offer a sleek, refined shape which is distinguished by its striking blue circular display. Presenting a clear visual reference with large easy to read numbers, the controller features are accessed through three touch buttons, which combine intuitive control with easy adjustability for an enhanced user experience.

### Three colours to match any interior design

No matter your interior design, Madoka will match it. Silver gives an additional touch to stand out in any interior or application, while Black is an ideal match for darker, stylish interiors. White offers a sleek, modern look.

### Easily set operation parameters

Setting and finetuning your controller is simple and helps you attain higher energy savings and more comfort. The system enables you to select the space operation mode (heating, cooling or automatic), set the desired room temperature and control the domestic hot water temperature.

### Easy Update via Bluetooth

It is strongly recommended that the user interface has the latest software version. To update the software or check if updates are available, you need a mobile device and the Madoka Assistant app. This app is available from Google Play and the Apple Store.



[www.daikin.eu/madoka](http://www.daikin.eu/madoka)

# Always in control

## Daikin Residential Controller

The Daikin Residential Controller application can, from any place at any time, control and monitor the status of your heating system and allows you to (\*):

### Monitor

- › The status of your system:
  - Room temperature
  - Requested room temperature
  - Operation mode
- › Energy consumption graphs (day, week, month)

### Schedule

- › Schedule the room temperature and operation mode with up to **6 actions per day for 7 days**
- › Enable **holiday mode**

### Control

- › Operation mode
- › Change the requested room temperature
- › Change the requested domestic hot water temperature
- › Powerful mode (fast heating domestic hot water)

\*Availability of functions is depending on the system type, configuration and operation mode. App functionality is only available if both the Daikin system and the App have Internet connectivity.



## EKRTR/EKRTW

### Control

The LCD screen of the room thermostat presents the necessary information regarding the setting of the Daikin Altherma system.

### Comfort

An external sensor (EKRTETS) can be placed between the underfloor heating and the floor, as an alternative to the wireless room thermostat.

### General features

- › Set the temperature of the room based on measurements from the built-in or external sensor
- › Off function (with integrated frost-protection function)
- › Holiday function mode
- › Comfort and reduced function modes
- › Time (day and month)
- › Programmable weekly timer with 2 user defined and 5 preset programmes, with up to 12 actions per day
- › Keylock function
- › Set limits: the installer can change the upper and lower limits
- › Floor temperature protection



# Individual room control system for temperature adjustment of heating and cooling systems



## General features

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

## 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.

## 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 EKWCTRAN1V3

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



### Wired digital thermostat EKWCTRD11V3

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



### Valve actuator EKWCVATR1V3

The Daikin Valve Actuator is a thermoelectric valve drive for opening and closing valves on heating circuit distributors of concealed heating and cooling systems.

# Daikin Altherma HPC

floor standing model



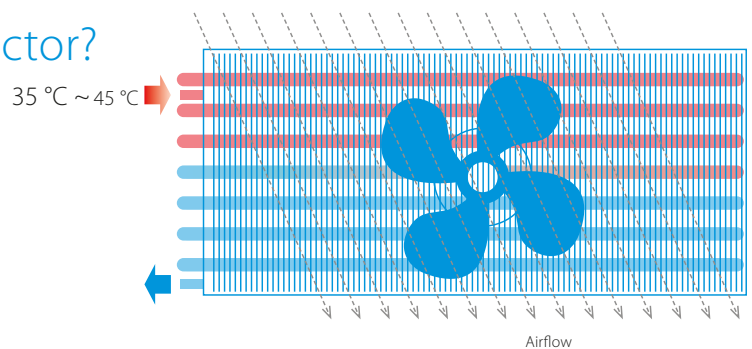
By providing cooling and heating, Daikin Altherma HPC is combinable with underfloor piping and can replace outdated radiators. The unit is available in three models (floor standing, wall mounted and concealed) and fits in any bedrooms or living rooms thanks to its silent operation.



## What is a heat pump convector?

The way a heat pump convector works is similar to a radiator, as both use convection to heat a room. A radiator creates convection by running water through its pipes. With a heat pump convector, a radiator's convection process is faster because there is a small fan behind it speeding up the heating cycle.

A heat pump convector creates the same room temperature as a traditional radiator, but with lower water temperatures in the radiator, and in the long run, contribute to direct energy savings for users.



- > Optimized for new build houses
- > Can be selected at low water temperature (35 °C) which makes it ideal for heat pump applications



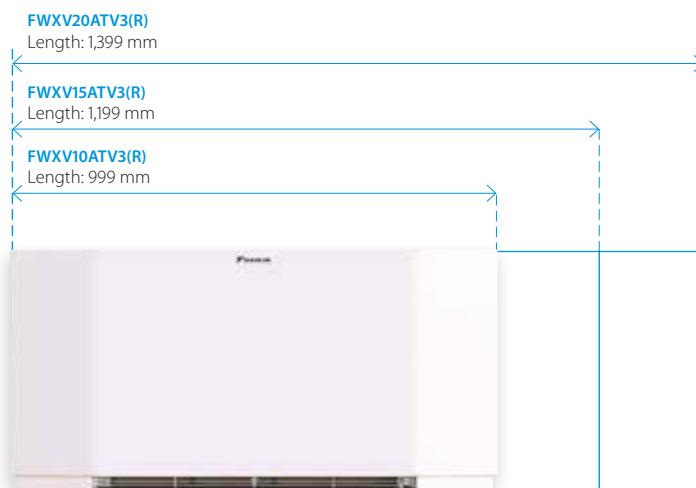
## Slim design

The floor standing Daikin Altherma HPC measures 135 mm (depth), this heat pump convector can fit in any house or apartment.



## Fast and high capacity

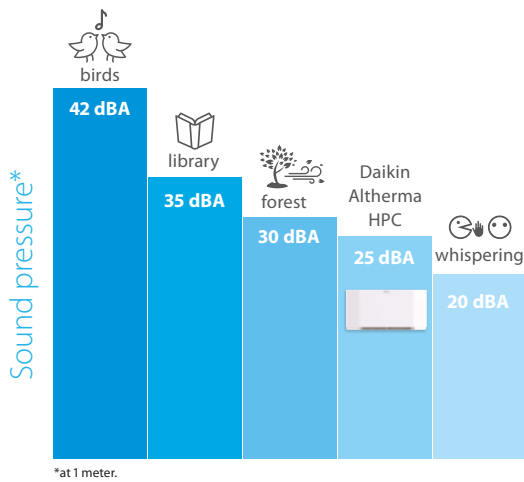
The Daikin Altherma HPC combines the advantages of residential underfloor heating and radiators. It delivers high capacity heating or cooling faster and can be selected at ultra-low temperatures (35/30 °C regime).





## Discreet

As the unit reaches its set point, a continuous modulating fan gradually reduces its speed and creates less noise. The unit's sound pressure measures 25dB(A) at 1 m when the fan is on a low-speed setting.



## DC Inverter

Daikin Altherma HPC uses the latest technologies to consume less electricity down to 3W of standby power input.



## Controllers

Daikin offers a wide variety of controllers that are functional and have a great design.

### EKRTCTRL1



- > Built-in controller
- > Fully modulating
- > Multicolor display

### EKRTCTRL2



- > Built-in controller
- > 4 speed selection

### EKWHCTRL1



- > Wall controller
- > Fully modulating
- > In combination with EKWHCTRL0

### EKPCBO

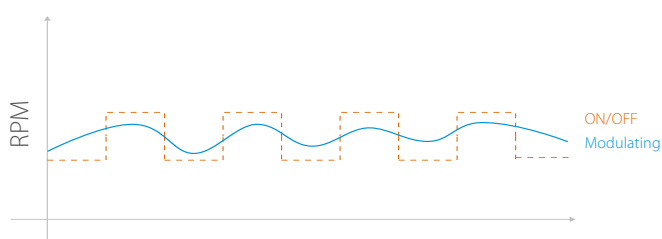


- > Built-in controller
- > ON/OFF
- > In combination with external thermostats



## Modulated airflow

When there is less heating demand, the unit modulates its airflow to slow down the fan rate, and in the process, lowers the operational sound. A standard ON/OFF fan running simultaneously at full speed can increase sound pressure.



\* Only applicable for EKRTCTRL1, EKWHCTRL1.



## Perfect combination

This heat pump convector fits perfectly within the Daikin Altherma 3 range.



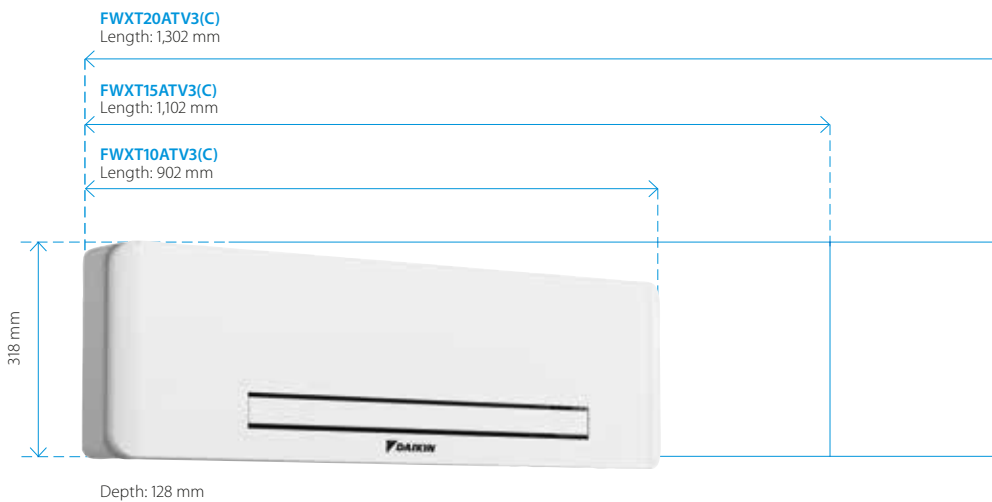


# Wall mounted model



## Slim design

Daikin Altherma HPC is a compact unit made of a design metal casing including all valves. Its wall hung application saves space on the floor for furnitures and decoration.



## Controllers

Choice of:

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

### EKWHCTRL1

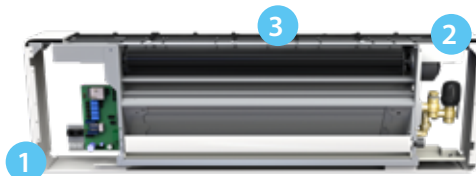


- > Wall controller
- > Fully modulating

### Infrared remote controller



## Compactness



### 1 Slim depth

Depth of 129 mm is an outstanding technical achievement that ensures the best fitting into any residential dwelling.

### 2 More space for valves

A special attention to the easiness of installation: the space for hydraulic valves is wide and easy accessible.

### 3 Modulated airflow

When there is less heating demand, the unit modulates its airflow to slow down the fan rate, and in the process, lowers the operational sound. A standard ON/OFF fan running simultaneously at full speed can increase sound pressure.

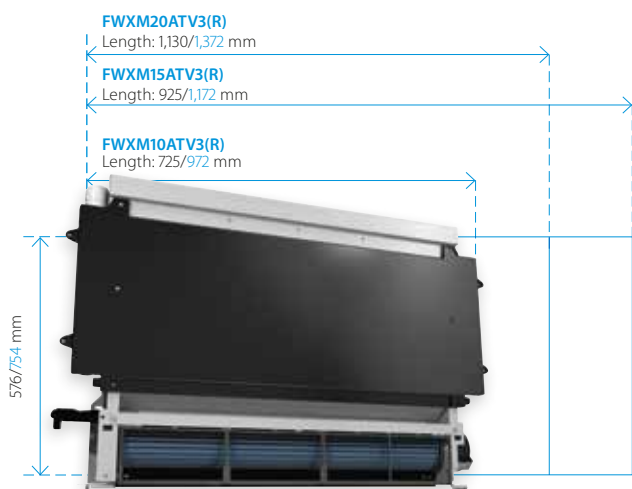


# Concealed model



## Slim design

Blue dimensions are for the front cover.



## Controllers

EKWHCTRL1



- > Wall controller
- > Fully modulating
- > In combination with EKWHCTRL0



## Flexible installation

Daikin Altherma HPC can be installed in 4 different ways, allowing you to install it in almost all conditions. The unit can be positioned horizontally or vertically. For horizontal, in ceiling installation, 3 different possibilities are offered:

- > Horizontal cover panel and vertical grill for air outlet
- > Horizontal intake grill and vertical grill for air outlet
- > Horizontal in and out grills for air outlet



Indoor unit				FWXV10ATV3(R)	FWXV15ATV3(R)	FWXV20ATV3(R)	
Cooling capacity at 7/12 °C	Min.		kW	0,66	1,30	1,82	
	Med.		kW	1,36	2,16	2,52	
	Max.		kW	1,77	2,89	3,20	
Sensible cooling capacity at 7/12 °C	Min.		kW	0,39	0,99	1,22	
	Med.		kW	0,98	1,53	1,55	
	Max.		kW	1,33	2,10	1,78	
Heating capacity at 35/30 °C	Min.		kW	0,41	0,45	0,93	
	Med.		kW	0,82	1,29	1,66	
	Max.		kW	1,14	1,73	2,15	
Heating capacity at 45/40 °C	Min.		kW	0,95	1,24	1,90	
	Med.		kW	1,63	2,33	3,05	
	Max.		kW	2,18	3,11	3,88	
Power input	Min.		kW	0,004	0,005	0,010	
	Med.		kW	0,011	0,012	0,016	
	Max.		kW	0,020	0,020	0,030	
Fan speed	Min.		m³/h	118	180	246	
	Med.		m³/h	210	318	410	
	Max.		m³/h	294	438	566	
Casing	Colour			RAL 9003			
	Material			Metal sheet			
Dimensions	Unit	Height	mm		601		
		Width	mm	999	1199	1399	
		Depth	mm	135	135	135	
Packed unit	Packed unit	Height	mm		690		
		Width	mm	1230	1430	1630	
		Depth	mm		210		
Weight	Unit		kg	20	23	26	
	Packed unit		kg	21	24	27	
Packing	Material			Carton			
	Weight		kg	1			
Heat exchanger	Quantity			1	1	1	
	Internal coil volume		l	0,8	1,13	1,46	
		Max Operating pressure		bar	10		
Water circuit	Piping connections diameter		inch	3/4" male			
	Piping material			EUROKONUS			
	Heating - Water pressure drop at 35/30 °C	Min.		kPa	0,3	2,0	1,2
		Med.		kPa	1,3	7,5	4,0
		Max.		kPa	2,4	12,3	8,0
	Heating - Water pressure drop at 45/40 °C	Min.		kPa	1,3	8,6	3,8
		Med.		kPa	4,2	3,3	11,2
		Max.		kPa	7,2	11,5	21,3
	Cooling - Water pressure drop at 7/12 °C	Min.		kPa	1,2	4,3	2,1
		Med.		kPa	2,8	19,3	13,1
		Max.		kPa	2,9	27,0	24,0
	Heating - Water flow rate at 35/30 °C	Min.		kg/h	69,9	73,6	160,2
		Med.		kg/h	141,4	221,1	285,3
		Max.		kg/h	195,2	297,2	369,9
	Heating - Water flow rate at 45/40 °C	Min.		kg/h	163,5	212,5	327,0
Med.			kg/h	280,3	401,1	524,6	
Max.			kg/h	374,1	534,5	667,5	
Cooling - Water flow rate at 7/12 °C	Min.		kg/h	113,5	223,7	313,0	
	Med.		kg/h	234,1	371,7	433,6	
	Max.		kg/h	303,6	496,6	550,6	
Pressure	Heating/Max.		bar	10	10	10	
	Super silent		dBA	29	31	32	
Sound power level	Min.		dBA	34	35	35	
	Max.		dBA	55	57	58	
	Super silent		dBA	20	22	23	
Sound pressure level	Min.		dBA	25	26	26	
	Max.		dBA	42	44	45	
	Super silent		dBA	20	22	23	
Operation range	Heating	Water side	Min.	°C	30		
			Max.	°C	85		
	Cooling	Water side	Min.	°C	5		
			Max.	°C	18		
	Indoor installation	Ambient	Min.	°CDB	0		
			Max.	°CDB	45		
Control systems	Infrared remote control			no			
	On board control			yes			
Electrical specifications				FWXV10ATV3(R)	FWXV15ATV3(R)	FWXV20ATV3(R)	
Power supply	Phase			1			
	Frequency		Hz	50			
	Voltage		V	230			
Electrical power consumption	Max.		W	19	20	29	
	Standby		W	3	4	5	
Current	Maximum running current		A	0,16	0,16	0,26	

Indoor unit				FWXM10ATV3(R)	FWXM15ATV3(R)	FWXM20ATV3(R)
Cooling capacity at 7/12 °C	Min.		kW	0,75	1,15	1,32
	Med.		kW	1,36	2,08	2,39
	Max.		kW	2,12	2,81	3,30
Sensible cooling capacity at 7/12 °C	Min.		kW	0,59	0,83	1,02
	Med.		kW	1,07	1,51	1,84
	Max.		kW	1,72	2,11	2,71
Heating capacity at 35/30 °C	Min.		kW	0,41	0,45	0,93
	Med.		kW	0,82	1,29	1,66
	Max.		kW	1,14	1,73	2,15
Heating capacity at 45/40 °C	Min.		kW	0,82	1,20	1,47
	Med.		kW	1,53	2,16	2,59
	Max.		kW	2,21	3,02	3,81
Power input	Min.		kW	0,004	0,005	0,006
	Med.		kW	0,008	0,011	0,011
	Max.		kW	0,019	0,020	0,029
Fan speed	Min.		m³/h	118	180	246
	Med.		m³/h	210	318	410
	Max.		m³/h	294	438	566
Casing	Material			No casing		
Dimensions	Unit	Height	mm	576		
		Width	mm	725	925	1125
		Depth	mm	126	126	126
Packed unit		Height	mm	690		
		Width	mm	830	1030	1230
		Depth	mm	210		
Weight	Unit		kg	12	15	18
	Packed unit		kg	13	16	19
Packing	Material			Carton		
Heat exchanger	Quantity			1	1	1
	Internal coil volume		l	0,8	1,13	1,46
		Max Operating pressure		bar	10	
Water circuit	Piping connections diameter		inch	3/4" male		
	Piping material			EUROKONUS		
	Heating - Water pressure drop at 35/30 °C	Min.	kPa	0,3	2,0	1,2
		Med.	kPa	1,3	7,5	4,0
		Max.	kPa	2,4	12,3	8,0
	Heating - Water pressure drop at 45/40 °C	Min.	kPa	1,3	8,6	3,8
		Med.	kPa	4,2	3,3	11,2
		Max.	kPa	7,2	11,5	21,3
	Cooling - Water pressure drop at 7/12 °C	Min.	kPa	1,2	4,3	2,1
		Med.	kPa	2,8	19,3	13,1
		Max.	kPa	2,9	27,0	24,0
	Heating - Water flow rate at 35/30 °C	Min.	kg/h	69,9	73,6	160,2
		Med.	kg/h	141,4	221,1	285,3
		Max.	kg/h	195,2	297,2	369,9
	Heating - Water flow rate at 45/40 °C	Min.	kg/h	163,5	212,5	327,0
Med.		kg/h	280,3	401,1	524,6	
Max.		kg/h	374,1	534,5	667,5	
Cooling - Water flow rate at 7/12 °C	Min.	kg/h	113,5	223,7	313,0	
	Med.	kg/h	234,1	371,7	433,6	
	Max.	kg/h	303,6	496,6	550,6	
Pressure		Heating/Max.	bar	10	10	10
Sound power level	Super silent		dBA	29	31	32
	Min.		dBA	35	35	36
	Max.		dBA	53	54	55
Sound pressure level	Super silent		dBA	20	22	23
	Min.		dBA	25	26	26
	Max.		dBA	42	44	46
Operation range	Heating	Water side	Min.	°C	30	
			Max.	°C.	85	
	Cooling	Water side	Min.	°C.	5	
			Max.	°C	18	
	Indoor installation	Ambient	Min.	°CDB	0	
			Max.	°CDB	45	
Control systems	Infrared remote control			no		
	On board control			no		
Electrical specifications				FWXM10ATV3(R)	FWXM15ATV3(R)	FWXM20ATV3(R)
Power supply	Phase			1		
	Frequency		Hz	50		
	Voltage		V	230		
Electrical power consumption	Max.		W	19	20	29
	Standby		W	3	4	5
Current	Maximum running current		A	0,16	0,16	0,26

Indoor unit				FWXT10ATV3(C)	FWXT15ATV3(C)	FWXT20ATV3(C)
Cooling capacity at 7/12 °C	Min.		kW	0,53	0,65	0,74
	Med.		kW	0,98	1,20	1,35
	Max.		kW	1,21	1,62	2,12
Sensible cooling capacity at 7/12 °C	Min.		kW	0,13	0,15	0,36
	Med.		kW	0,40	0,56	0,70
	Max.		kW	1,01	1,44	1,99
Heating capacity at 35/30 °C	Min.		kW	0,29	0,23	0,47
	Med.		kW	0,48	0,69	1,08
	Max.		kW	0,66	1,00	1,44
Heating capacity at 45/40 °C	Min.		kW	0,61	0,85	1,08
	Med.		kW	1,12	1,51	1,95
	Max.		kW	1,51	2,03	2,62
Power input	Min.		kW	0,004	0,005	0,006
	Max.		kW	0,019	0,020	0,029
Fan speed	Min.		m³/h	84	124	138
	Med.		m³/h	155	229	283
	Max.		m³/h	228	331	440
Casing	Colour			RAL 9003		
	Material			Metal sheet		
Dimensions	Unit	Height	mm	335		
		Width	mm	902	1100	1300
		Depth	mm	128		
	Packed unit	Height	mm	490		
Width		mm	1030	1230	1430	
Depth		mm	210			
Weight	Unit		kg	14	16	19
	Packed unit		kg	15	17	20
Packing	Material			Carton		
	Weight		kg	1		
Heat exchanger	Quantity			1		
	Internal coil volume		l	0,54	0,74	0,93
		Max Operating pressure		bar	10	
Water circuit	Piping connections diameter		inch	3/4" male		
	Piping material			EUROKONUS		
	Heating - Water pressure drop at 35/30 °C	Min.	kPa	0,2	1,9	0,3
		Med.	kPa	0,9	2,9	1,4
		Max.	kPa	1,6	3,3	2,3
	Heating - Water pressure drop at 45/40 °C	Min.	kPa	1,1	2,8	1,1
		Med.	kPa	3,1	3,5	4,1
		Max.	kPa	5,4	4,0	6,6
	Cooling - Water pressure drop at 7/12 °C	Min.	kPa	1,1	3,9	1,3
		Med.	kPa	3,0	4,8	4,2
		Max.	kPa	5,2	5,7	6,9
	Heating - Water flow rate at 35/30 °C	Min.	kg/h	39,3	39,0	80,8
		Med.	kg/h	81,8	119,4	185,4
		Max.	kg/h	114,0	172,4	247,8
	Heating - Water flow rate at 45/40 °C	Min.	kg/h	91,9	112,6	164,8
Med.		kg/h	162,0	216,6	341,0	
Max.		kg/h	218,4	310,0	447,2	
Cooling - Water flow rate at 7/12 °C	Min.	kg/h	82,1	98,9	156,5	
	Med.	kg/h	138,1	177,4	300,6	
	Max.	kg/h	184,4	283,0	396,8	
Pressure	Heating/Max.		bar	10	10	
Sound power level	Min.		dBA	35	36	36
	Max.		dBA	53	54	55
Sound pressure level	Min.		dBA	25	25	26
	Max.		dBA	40	42	43
Operation range	Heating	Water side	Min.	°C	30	
			Max.	°C	85	
	Cooling	Water side	Min.	°C	5	
			Max.	°C	18	
	Indoor installation	Ambient	Min.	°CDB	0	
			Max.	°CDB	45	
Electrical specifications				FWXT10ATV3(C)	FWXT15ATV3(C)	FWXT20ATV3(C)
Power supply	Phase			1		
	Frequency		Hz	50		
	Voltage		V	230		
Electrical power consumption	Max.		W	17,6	19,8	26,5
	Standby		W	5	5	5,8
Current	Maximum running current		A	0,16		

FWXV10ATV3(R)	FWXM10ATV3(R)	FWXM15ATV3(R)	FWXM20ATV3(R)	FWXT10ATV3(C)
FWXV15ATV3(R)				FWXT15ATV3(C)
FWXV20ATV3(R)				FWXT20ATV3(C)
DC Inverter fan coil unit with sheet metal cabinet (white colour)	Built in DC Inverter fancoil for horizontal and vertical			High Wall fancoil

Material name	Description	Picture					
EKRCTRL1	On board electronic control SMART TOUCH with PID full modulating fan and thermostat		Opt				
EKRCTRL2	On board electronic control SMART TOUCH 4 speeds with thermostat		Opt				
EKPCBO	On board 4 speeds control switch to be combine with Daikin combinable thermostats		Opt				
EKWHCTRL0	On board controller for EKWHCTRL1		Opt	Opt	Opt	Opt	
EKWHCTRL1	SMART LCD wall controller with temperature probe, white casing		Opt	Opt	Opt	Opt	Opt
EKFA	Aestetical feet		Opt				
EK2VK0	Motorized 2-way valve (FWXV/M)		Opt	Opt	Opt	Opt	
EKT2VK0	Motorized 2-way valve (FWXT)						Opt
EK3VK1	Motorized 3-way valve (FWXV/M)		Opt	Opt	Opt	Opt	
EKT3VK1	Motorized 3-way valve (FWXT)						Opt
EKEUR90	L-bow 90 °C		Opt	Opt	Opt	Opt	
EKDIST	Extension piece		Opt	Opt	Opt	Opt	
EKM10COH	Condensate collector tray for horizontal installation		FWXV10ATV3(R)				
EKM15COH			FWXV15ATV3(R)				
EKM20COH			FWXV20ATV3(R)				
EKM10CS	Metal casing			Opt			
EKM15CS					Opt		
EKM20CS						Opt	
EKM10CH	Front cover for ceiling installation			Opt			
EKM15CH					Opt		
EKM20CH						Opt	
EKM10CV	Front cover for wall installation			Opt			
EKM15CV					Opt		
EKM20CV						Opt	
EKM10DH	Air intake fitting			Opt			
EKM15DH					Opt		
EKM20DH						Opt	
EKM10D90	90 °C exhaust bend (Horizontal)			Opt			
EKM15D90					Opt		
EKM20D90						Opt	
EKM10DT	Telescopic air flow duct					Opt	
EKM15DT						Opt	
EKM20DT							Opt
EKM10IS	Aluminum air intake grill with straight airflow			Opt			
EKM15IS					Opt		
EKM20IS						Opt	
EKM10SV	Straight airflow vent			Opt			
EKM15SV					Opt		
EKM20SV						Opt	
EKM10IC	Aluminum air intake grill with curved airflow			Opt			
EKM15IC					Opt		
EKM20IC						Opt	
EKM10CA	Aluminum air outlet grill with curved airflow					Opt	
EKM15CA						Opt	
EKM20CA							Opt



# Discover

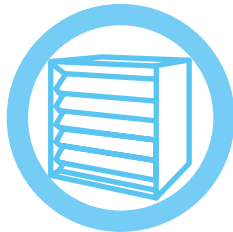
a world of silence

The low sound cover is the ideal and practical way to lower the sound of the Daikin Altherma outdoor unit. It allows for the unit to be in line with local regulations on sound emission or in the case of limited space, when the unit is installed close to a neighbouring property. With the use of this new Low Sound Cover, the sound performances of the Daikin Altherma outdoor units can be reduced with an additional -3 dB(A).



## Sound reduction

- › Reducing the emitted sound with -3 dB(A) which corresponds to more than 50% reduction of the sound level
- › To use with Daikin Altherma ERGA-D or ERLQ-C outdoor units
- › In night mode, the sound is reduced to less than 35 dB(A) at 3 metres



## Functional and modern outlook

- › The smooth and discrete design blends in with today's house architecture



## Safeguarded performance & warranty

- › The installation of the low sound cover has no impact on the heating performances of your outdoor unit, only the noise is reduced
- › Your warranty remains unchanged



## Quick installation

- › The low sound cover is delivered in a flat pack
- › It can be installed over a floor or a wall mounted outdoor unit
- › The cover can easily be assembled, based on a set of simple and straightforward instructions, delivered with the pack
- › The installation of the low sound cover takes less than 20 minutes



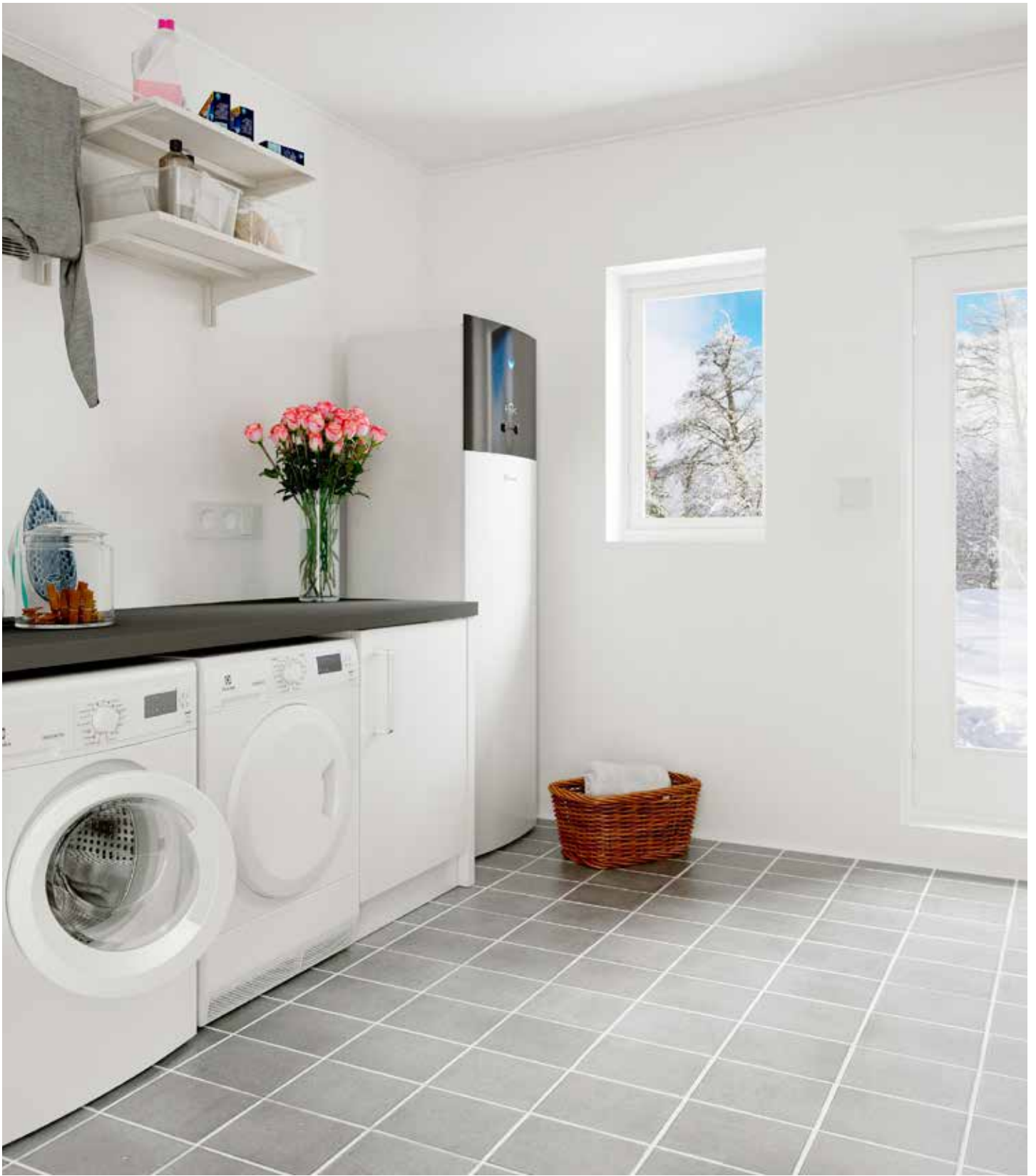
			Wall mounted		Floor standing	integrated tank
						EHVH08S18DA6V(G) EHVH08S23DA6V(G) EHVH04S18DA6V(G) EHVH04S23DA6V(G) EHBH08DA6V EHBH08DA9W EHBH04DA6V EHBX08DA6V EHBX08DA9W EHVX04S18DA3V(G) EHVX04S18DA6V(G) EHVX04S23DA3V(G) EHVX04S23DA6V(G)
Type	Description	Material name	EHBX04DA6V	EHBX08DA9W	EHVX04S23DA6V(G)	EHVX08S23DA9W(G)
Outdoor unit		ERGA04DAV3	●		●	
		ERGA06DAV3		●		●
		ERGA08DAV3		●		●
Options	Digital PCB	EKRP1HBAA	●	●	●	●
	Demand PCB	EKRP1AHTA	●	●	●	●
	User interface	BRC1HHDK/S/W	●	●	●	●
	LAN Adapter	BRP069A61	●	●	●	●
		BRP069A62	●	●	●	●
	Remote indoor sensor	KRCS01-1	●	●	●	●
	Remote outdoor sensor	EKRSCA1	●	●	●	●
	PC USB Cable	EKPCCAB4	●	●	●	●
Back-up heater kit	EKLBUHCB6W1			● only for EHVH-DV(G)	● only for EHVH-DV(G)	
Heat pump convector		FWXV15AVEB	●	●	●	●
		FWXV20AVEB	●	●	●	●
Thermal stores	Polypropylene (with drainback solar)	EKHWP300B	●	●		
		EKHWP500B	●	●		
	Polypropylene (with pressurised solar)	EKHWP300PB	●	●		
		EKHWP500PB	●	●		
Bi-zone kit	Watts kit	BZKA7V3	●	●	●	●
Room thermostat	Wired	EKRTWA	●	●	●	●
	Wireless	EKRTR1	●	●	●	●
	External sensor	EKRTETS	●	●	●	●
Stainless steel tank		EKHWS(U)-D	●	●		
		EKSRRPS4A				
Options	Room thermostat					
	Mixer module					
	Outdoor sensor for RoCon controller					
	Gateway for apps					
	Back-up heater 1 kW / 3kW / 9kW					
	Hydraulic separator					
	Heat insulation for HWC					
	Mixing group with integrated high efficiency pump					
	Mixing group with integrated high efficiency pump (PWM)					
	Pump group with mixer module					
	Pump group without mixer module					
	Connection kit for MK1					
	Dirt separator SAS1					
	Dirt separator SAS2					
	Biv connector kit					
	DB connector kit					
Terminal connection kit						
Connector external heater						











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