



# Daikin Altherma 4 H



Daikin heat pump technology for the future - definitely the right choice

# Daikin Altherma 4 H

R-290 rethought: definitely the right choice



**R-290**

**70°C**  
6 kW  
power rating

**75°C**  
8 – 14 kW  
power ratings

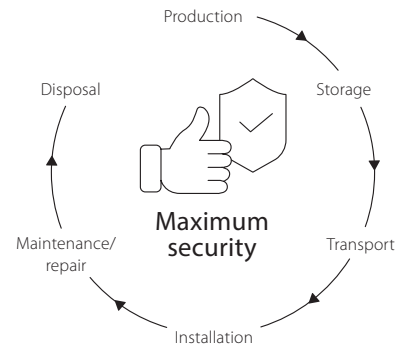


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## R-290 rethought

Daikin technology to guarantee your safety



Numerous features have been developed to maximise safety and sustainability over the entire product life cycle:

### Outdoor unit

- Integrated refrigerant container for safe system transport and installation - the refrigerant is only added to the refrigerant circuit during commissioning
- Sealed circuit board box for optimal separation of electricity and refrigerant - R-290 ingress impossible
- Plug-in electronic components facilitate repairs and prevent propane from coming into contact with potential electrical ignition sources as a result of being sealed
- Newly developed, high-efficiency R-290 gas separator prevents gas transfer to the water side of the heating system
- Gas leakage detection with combined mechanical ventilation offers protection not only when working on the outdoor unit, but also in every phase of operation
- Factory-installed frost protection valves prevent frost damage to the water heat exchanger (to ensure proper functioning, operation with glycol is not permitted)

### Indoor unit

- Back-up heater



## Environmentally aware

Outstanding efficiency

- Seasonal efficiency at VLT 35°C:
- Seasonal efficiency at VLT 55°C:
- Hot water heating: up to
- Natural refrigerant R-290 with low global warming potential (GWP = 0.02 according to IPCC6)
- Significant reduction in the amount of refrigerant required thanks to the micro-channel aluminium heat exchanger
- Increased efficiency through micro-channel technology
- Greater grill stability for permanent maximum air flow



# Daikin Altherma 4 H

## The outstanding heat pump solution



### Modern design

The newly designed housing (1,123 x 1,330 x 604 mm) in silver and the matt black front grille with curved louvres look particularly elegant. A **Micro-channel aluminium heat exchanger** for even greater efficiency rounds off the overall picture.

### Daikin compressors perfected for R-290

The compressor is able to deliver a high leaving water temperature (up to 75°C) even at low outdoor temperatures.

Over 100 years of Daikin technology: Thanks to many years of experience, the R-290 compressor developed by Daikin achieves the perfect interaction between refrigerant and mechanical components in one optimised component. This results in the highest leaving water temperatures and outstanding heat pump reliability.



Aerodynamically curved front louvres for reduced noise build-up

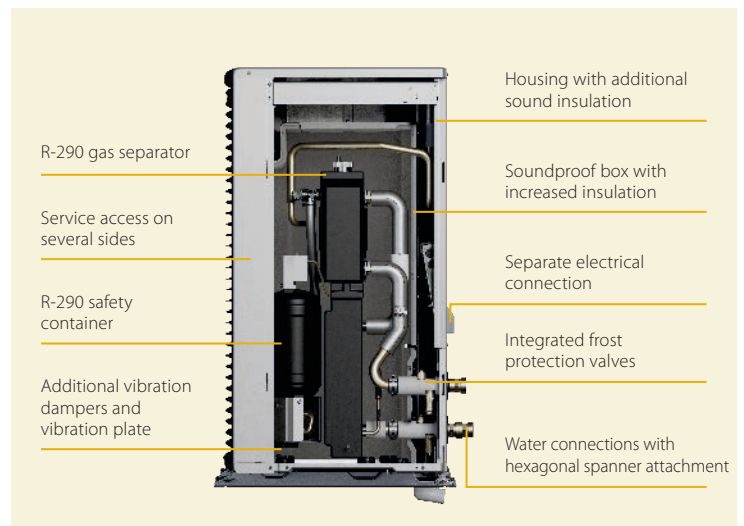


### Whisper quiet operation

- <47 dB(A) sound pressure at a distance of 3 metres during the day
- <34 dB(A) sound pressure at a distance of 2 metres at night

### Smart design

Maximum noise reduction thanks to specially developed, innovative curved front louvres and high-efficiency sound insulation box with optimised insulation.



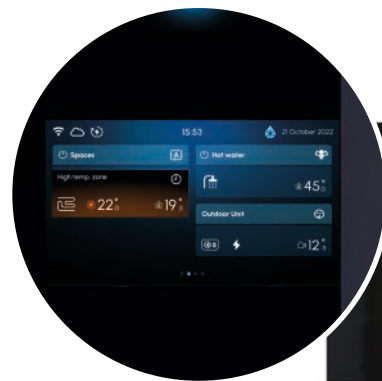


## Simply intuitive

Smart operation - during use and installation

The new MMI 4 controller with 5-inch touch display guarantees an optimised user experience.

- Easy-to-use user-level interface with all the most important information at a glance
- Installer-level interface with extensive settings options incl. commissioning wizard
- Time manager for the heating and cooling function with hot water heating according to individual user behaviour
- Intuitive parameter display and straightforward set-up of the weather-compensated heating curve



## LEVEL UP!

Become a heat pump expert with the LEVEL UP training programmes by Daikin



- The professional approach to dealing with R-290
- The new standard - qualification for innovations from the world market leader
- Training is required for the Daikin Altherma 4 commissioning certification!

Information and registration at:  
[www.sbm-cp.daikin.eu](http://www.sbm-cp.daikin.eu)



# Flexible for every application

Daikin Altherma 4 H is a high-temperature heat pump that can even achieve **leaving water temperatures of up to 75°C**. It is therefore the perfect replacement for old oil or gas heating systems and offers a high degree of flexibility when it comes to selecting heat exchangers.

## The choice for existing buildings or larger new builds

- Available in 6, 8, 10, 12 and 14 kW capacities
- The 6 kW capacity rating of the Daikin Altherma 4 H achieves system temperatures of up to 70°C at an outdoor temperature of -21°C. The units in the 8 – 14 kW capacities are even suitable for operating conditions up to 75°C
- Energy efficiency\* up to A+++ for space heating and up to A+ for hot water heating
- Hot water heating only by the heat pump with an outdoor temperature of up to 40°C
- Suitable for the tightest of spaces thanks to ultra-quiet operation in whisper night mode. The sound pressure level can drop below 34 dB(A) at a distance of 2 metres
- Use of R-290 in a new system concept
- Hydrosplit principle: Refrigerant only in the outdoor unit. No refrigeration certificate required – only water-side connections
- All year-round comfort, providing heating and cooling
- Smart Grid-ready





## User-friendly operation

- New MMI-4 heat pump control
- New, integrated 5-inch touch colour display
- Quick wizard for commissioning

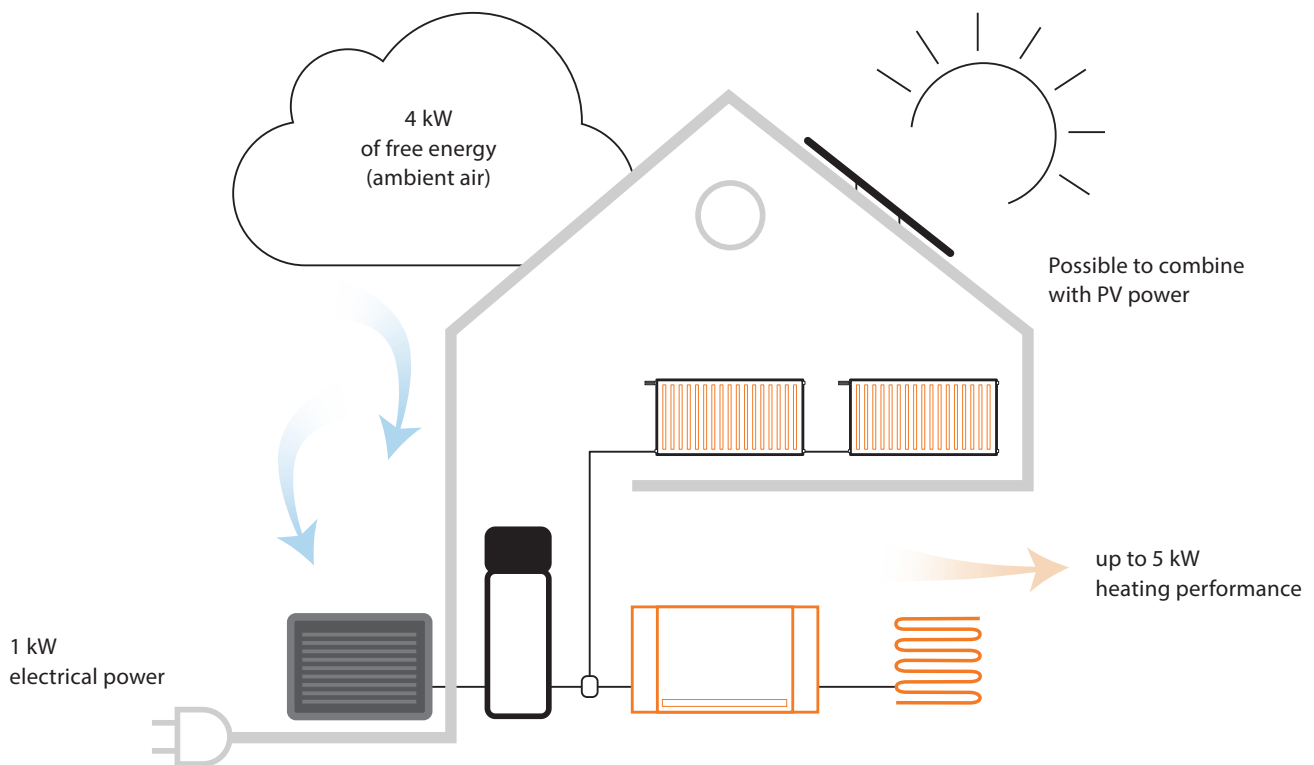


## Perfectly customised to your customers' preferences

- With integrated WLAN module
- Operable via Daikin Onecta app

Application	Building type	Top benefits for the user
 <b>Refurbishment</b>	<b>Detached and semi-detached houses.</b> <ul style="list-style-type: none"> <li>▪ Unrenovated old building (100 W/m<sup>2</sup>) up to approx. 178 m<sup>2</sup></li> <li>▪ Refurbished old building (60 W/m<sup>2</sup>) up to approx. 296 m<sup>2</sup></li> </ul>	<ul style="list-style-type: none"> <li>▪ Up to 75°C system temperature</li> <li>▪ The optimised solution for replacing gas and oil heating appliances</li> <li>▪ Simple installation - no refrigeration licence required</li> <li>▪ Year-round comfort through heating and cooling</li> </ul>
 <b>New build</b>	<b>Detached and semi-detached houses.</b> <ul style="list-style-type: none"> <li>▪ High standard (30 W/m<sup>2</sup>) up to approx. 590 m<sup>2</sup></li> </ul>	<ul style="list-style-type: none"> <li>▪ Maximum comfort: integrated cooling, high hot water convenience and drinking water hygiene</li> <li>▪ The renewable share is fully covered (GEG) - no further measures are necessary</li> <li>▪ Particularly stylish and quiet outdoor unit</li> </ul>
	<b>Apartment buildings (30 W/m<sup>2</sup>)</b> <ul style="list-style-type: none"> <li>▪ Up to approx. 410 m<sup>2</sup> (5 – 10 residential units), 5 – 30 persons</li> <li>▪ In cascades (e.g. 2 x Daikin Altherma 4 H 12 kW) approx. 870 m<sup>2</sup> (10 – 20 residential units), 30 - 60 persons</li> </ul>	<ul style="list-style-type: none"> <li>▪ Thermal disinfection of drinking water by heat pump possible</li> <li>▪ Low operating costs and easy installation</li> </ul>

\*in accordance with Regulation (EU) 811/2013 - energy labelling 2019, on a scale from D to A+++ (space heating) or F to A+ (hot water heating)



## Maximum comfort with the best functions

Select the function that best suits your requirements. The indoor units are available in **two versions**: **Heating / cooling** or with **bivalent function**.

### + Heating / cooling

All three indoor units are available with a cooling function as standard. It reverses the way the heat pump works. The cooling function requires underfloor heating or fan coil units.

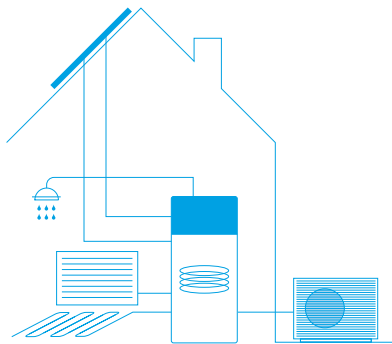
### + Bivalent function

The bivalent function is available for the ECH<sub>2</sub>O indoor unit. An additionally installed heat exchanger allows the simple integration of an external heat generator.

# Three indoor units available

The Daikin Altherma 4 H is available in different versions to cover all areas of application.

Daikin Altherma 4 H  
ECH<sub>2</sub>O indoor unit

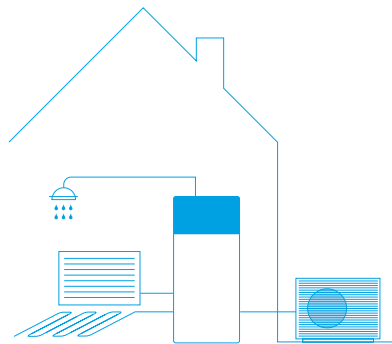


Floor standing unit with ECH<sub>2</sub>O tank and option to connect to thermal solar panels

**The complete solution:**  
State-of-the-art heat pump technology with integrated heat accumulator.  
Hygienic and open for additional heat sources.

- Maximum utilisation of renewable energy with a high level of comfort for hot water heating
- Integrated heat accumulator and solar storage tank
- Heating, cooling and hot water
- Intelligent Storage Management (ISM) for maximum energy efficiency and maximum heating and hot water convenience
- Maximum hygiene by separating storage and domestic hot water
- Flexible application, can be combined directly with solar panels or existing heating systems possible (bivalent option)
- Pre-installed electric back-up heater (power adjustable in stages)
- Innovative heat pump control (MMI-4 with 5-inch touch display)
- Control via app is integrated as standard

Daikin Altherma 4 H  
F indoor unit

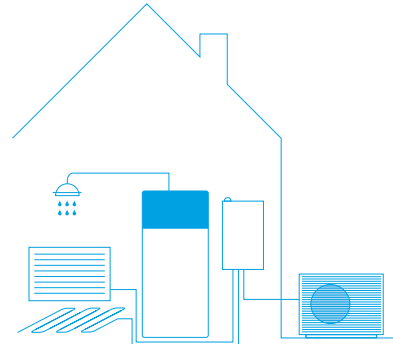


Floor standing unit with integrated domestic hot water tank

**All-in-one concept:**  
Small footprint and low overall height.

- All components and connections factory-fitted
- Heating, cooling and hot water
- Extremely small footprint at 595 x 634 mm
- Very low electrical power consumption and hot water always available
- Elegant, modern design in white
- Pre-installed electric back-up heater (power adjustable in stages)
- Innovative heat pump control (MMI-4 with 5-inch touch display)
- Control via app is integrated as standard

Daikin Altherma 4 H  
W indoor unit



Wall mounted unit

**Multi-purpose:**  
Flexible application for cascades or as a hybrid solution for existing heating systems.

- Compact unit with a low footprint (hardly any side clearance required)
- Can be combined with a separate domestic hot water tank
- Elegant, modern design
- Also suitable for apartment buildings in cascades
- Pre-installed electric back-up heater (power adjustable in stages)
- Innovative heat pump control (MMI-4 with 5-inch touch display)
- Control via app is integrated as standard

# The complete solution: ECH<sub>2</sub>O indoor unit

## Intelligent heat storage management

- Smart Grid-ready: efficiently stores thermal energy for space heating and domestic hot water at a favourable night-time electricity tariff
- Continuous heating during defrost mode and use of stored heat for space heating (500 l storage tank only)
- Electronic management of heat pump and heat accumulator for maximum energy efficiency, convenient heating and cooling as well as hot water heating
- Factory-installed 9 kW back-up heater
- Maximum water hygiene
- Solar connection to utilise more renewable energy
- The unit enables temperature monitoring for two zones so that underfloor heating and radiators can be combined

## Innovative, high-quality domestic hot water tank

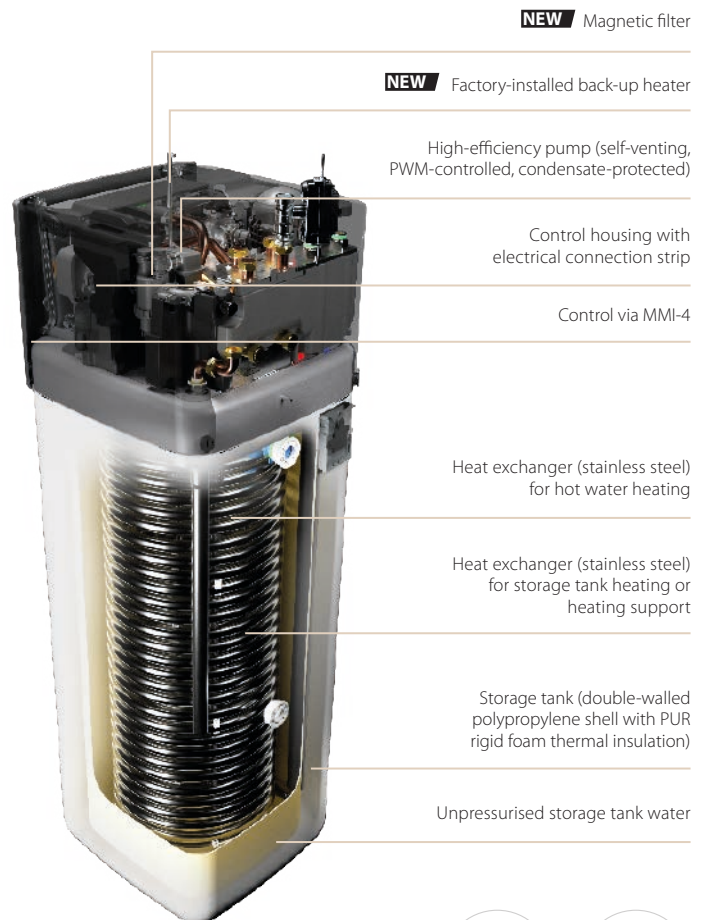
- Integrated 300- or 500-litre heat accumulator
- Lightweight plastic storage unit
- No corrosion, anode, scale or lime deposits
- Contains impact resistant polypropylene inner and outer walls filled with high-grade insulation foam to reduce heat losses to a minimum
- Integrated overflow

## Can be combined with other heat sources

- Integrated thermal solar option (drain-back)
- Bivalent option for storing heat from other sources, such as oil, gas or pellet boilers or wood-burning stoves with back boiler. Prepared for direct integration of a pressurised solar thermal system for even lower energy consumption

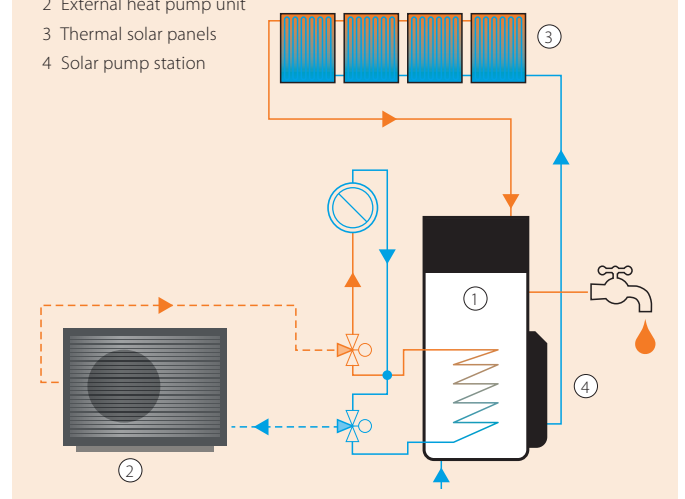
## Intuitive control with MMI-4

- Coloured plain text display - with multi-coloured backlighting to display status and error messages
- Improved intuitive menu navigation
- No additional accessories are required to control the unit using the app
- Integrated outdoor temperature sensor (in the outdoor unit)
- Integrated volumetric flow sensor
- The intuitive **Daikin Eye** displays the current status of the system. Blue is perfect! In the event of a fault, the display changes to red



## Integration of a thermal solar panel system

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



# All-in-one: F indoor unit

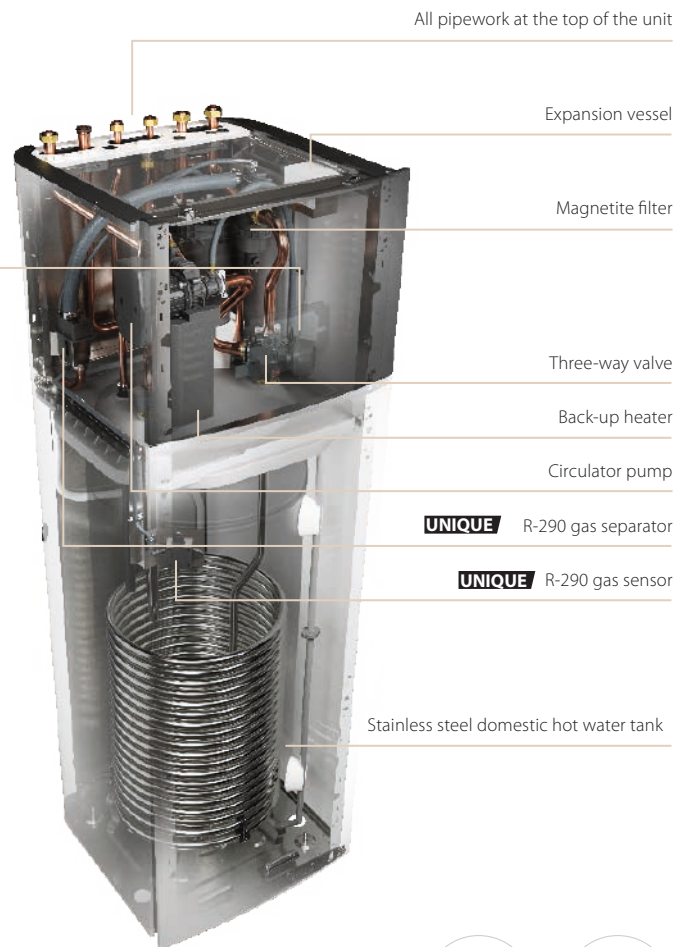
## Saves space and assembly time

- Compact freestanding unit with integrated stainless steel domestic hot water tank (available in two sizes: 180 or 230 litres)
- Small footprint of only 595 x 634 mm
- Compact overall height: 1.65 m for the version with a 180-litre storage tank and 1.85 m for the version with a 230-litre storage tank
- Heating, cooling and hot water heating
- Integrated 4.5 or 9 kW back-up heater
- Inclusion of all hydraulic components means no third party components are required.
- PCB board and hydraulic components housed at the front of the unit for easy access



## Modern MMI-4 user interface

- The intuitive **Daikin Eye** displays the current status of the system. Blue is perfect! In the event of a fault, the display changes to red
- Can also be operated using the Onecta app
- With integrated PV / SG-Ready option
- Innovative heat pump control via MMI-4 with 5-inch touch display



## We've thought of everything!

The Daikin Altherma 4 H F floor standing unit not only looks good, it has also been cleverly designed: As all pipework is connected to the top of the unit, hardly any side clearance is required for installation.

In addition, all important unit components are installed in such a way that they are easily accessible from the front - this **saves time and money** in terms of commissioning and maintenance.



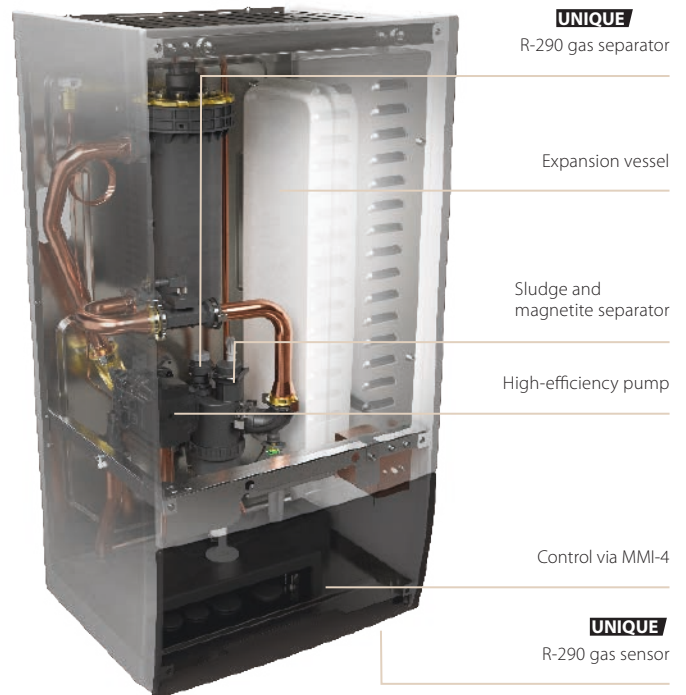
# The wall mounted unit has it all: W indoor unit

## Highly flexible for installation and hot water connection

- Small footprint: compact dimensions, hardly any side clearance required
- Can be combined with a separate domestic hot water tank
- Hot water and solar option combined with a Daikin Altherma ST heat accumulator
- Unobtrusive, modern design with intuitive user interface
- All important hydraulic and control components are housed in the front of the unit and are therefore easily accessible: saves time and costs during commissioning and maintenance
- Integrated back-up heater
- Integrated sludge and magnetite separator
- Inclusion of all hydraulic components means no third party components are required.
- Heating / cooling
- Modular design supports a wide range of applications. The compact indoor units can be combined to form cascades for apartment buildings

## Advanced MMI

- The intuitive **Daikin Eye** displays the current status of the system. Blue is perfect! In the event of a fault, the display changes to red
- Can also be operated using the Onecta app
- With integrated PV / SG-Ready option
- Innovative heat pump control via MMI-4 with 5-inch touch display



# Daikin Altherma 4 H ECH<sub>2</sub>O

Air-to-water heat pump with integrated water storage tank for hot water, heating and cooling

- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free storage tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Support for hot water heating through pressureless drain-back system
- Heat loss is reduced to a minimum thanks to the high-quality insulation
- Heat pump operation for an outdoor temperature of up to -28°C
- Factory-installed 9 kW back-up heater
- New heat pump controller: MMI-4 with 5-inch touch display
- Reliable hot water heating with an outdoor temperature of up to 40°C
- R-290 rethought: perfect safety in every situation
- Ultra-quiet in night whisper mode
- Suitable for heating low and high temperature systems



For further accessories, see from page 21

Efficiency data			EPSX + EPSK		10P30A+ 06AV3	10P50A+ 06AV3	10P30A+ 08AW1	10P50A+ 08AW1	10P30A+ 10AW1	10P50A+ 10AW1	14P50A+ 12AW1	14P50A+ 14AW1		
Heating performance	A-7 / W35	Max.	kW		6.2		7.8		9.1		10.4	13.7		
	A-7 / W55	Max.	kW		6.6		7.9		9.5		12.1	13.3		
COP (according to EN14511)	A7 / W35				5.19		5.01		4.94		5.50			
	A-7 / W35				3.38		3.32		2.85		3.49			
Cooling capacity	A35 / W7	Nom.	kW/-		6.00 / 3.87		6.89 / 3.73		7.84 / 3.62		9.37 / 3.55		11.3 / 3.28	
	A35 / W18	Nom.	kW/-				6.37 / 5.63				6.74 / 6.02			
Space heating	Leaving water temperature 55°C	SCOP / η <sub>s</sub>	%		3.91 / 153		3.94 / 155		3.99 / 157		4.04 / 159		3.84 / 150	
	Leaving water temperature 35°C	SCOP / η <sub>s</sub>	%		5.12 / 202		5.14 / 202		5.14 / 203		5.14 / 203		4.96 / 195	
Hot water	η <sub>dhw</sub>		%		101	124	101	124	101	124	128			
	Efficiency class* / tap profile				A / L	A+ / XL	A / L	A+ / XL	A / L	A+ / XL	A+ / XL	A+ / XL		
<b>Indoor unit</b>			<b>EPSX</b>		<b>10P30A</b>	<b>10P50A</b>	<b>10P30A</b>	<b>10P50A</b>	<b>10P30A</b>	<b>10P50A</b>	<b>14P50A</b>			
Unit	Dimensions	H x W x D	mm		1,914 x 590 x 671		1,906 x 785 x 837		1,914 x 590 x 671		1,906 x 785 x 837			
	Tipping dimension	Height	mm		2,005		2,065		2,005		2,065			
	Recommended room height		mm		2,394		2,386		2,394		2,386			
	Weight		kg		84		105		84		105			
Energy storage	Water volume		l		294		477		294		477			
	Water temperature	Max.	°C				85							
Heat exchanger	Insulation	Material									HFC-free polyurethane foam			
		Heat loss	kWh/24h		1.5 <sup>(1)</sup>	1.7 <sup>(1)</sup>	1.5 <sup>(1)</sup>	1.7 <sup>(1)</sup>	1.5 <sup>(1)</sup>		1.7 <sup>(1)</sup>			
		Surface area	m <sup>2</sup>		5.47	7.37	5.47	7.37	5.47		7.37			
Pump	Type											Grundfos UPM 4 XL LIN		
		Operating range	Heating	Water side	Min. ~ Max.	°C		15 ~ 70				15 ~ 75		
Pipe connections	Heating-side	Cold water and hot water	Inch										1 1/4" female thread	
		Flow / return	Inch										1" male thread	
		Phase / voltage / frequency	Inch										1 1/4" female thread	
Power supply	Recommended fuse											3~50 Hz/400 V		
												B 16		
Protection class	IP class											IP X0		
<b>Outdoor unit</b>			<b>EPSK</b>		<b>06AV3</b>	<b>08AW1</b>	<b>10AW1</b>	<b>12AW1</b>	<b>14AW1</b>					
Unit	Dimensions	H x W x D	mm				1,123 x 1,330 x 604							
	Weight		kg		174		178				191			
Compressor	Type											Hermetically sealed scroll compressor		
		Operating range	Heating	Ambient	Min. ~ Max.	°C		-28 ~ 25						
		Operating range	Cooling	Ambient	Min. ~ Max.	°C		10 ~ 43						
		Operating range	Hot water	Ambient	Min. ~ Max.	°C		-28 ~ 40						
Refrigerant	Type / GWP											R-290 / 0.02 (IPCC6)		
		Filling quantity / CO <sub>2</sub> -equivalent	kg / tCO <sub>2</sub> -eq.				1.0 / 0.00002				1.25 / 0.000025			
		Piping length	male thread - female thread	Max.		m		20 (for 1 1/4"), 30 (for 1 1/2")		20 (for 1 1/4"), 50 (for 1 1/2")				
Sound power level	Heating	day	Max.		dB(A)		56		57		59		60	
		night	Max.		dB(A)		47		48		50		51	
Pipe connections	Flow / return											1 1/4" male thread		
		Phase / voltage / frequency											3~50 Hz/400 V	
Power supply	Recommended fuse											1~/50 Hz/230 V		
												C 25		
												C 16		

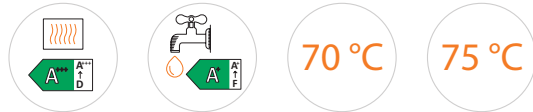
(1) Based on ΔT = 45 K. In accordance with Regulation (EU) 811/2013 – energy labelling 2019, on a scale from D to A+++ (space heating) or F to A+ (hot water heating)  
 Note: This is preliminary product data - subject to change.

Necessary accessories		Order No.
	<b>Circulation brake SKB</b> To prevent gravity circulation in heating and DHW circuits connected to the storage tank, suitable up to 95°C, for installation in all tank-side heat exchanger connections, except pressurised solar heat exchangers. PU: 2 No.	165070
	<b>Overflow valve</b> Overflow valve with corner fitting. Necessary component for models with cooling function to ensure the minimum flow rate at the indoor unit. UESV 25 with DN 25	140116

# Daikin Altherma 4 H ECH<sub>2</sub>O with bivalent function

Air-to-water heat pump with integrated water storage tank for hot water, heating and cooling

- **Bivalent function:** additional heat exchanger for simple system integration of an external heat generator
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free storage tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Support for hot water heating through pressureless drain-back system
- Heat loss is reduced to a minimum thanks to the high-quality insulation
- Heat pump operation for an outdoor temperature of up to -28°C
- Factory-installed 9 kW back-up heater
- New heat pump controller: MMI-4 with 5-inch touch display
- Reliable hot water heating with an outdoor temperature of up to 40°C
- R-290 rethought: perfect safety in every situation
- Ultra-quiet in night whisper mode
- Suitable for heating low and high temperature systems



For further accessories, see from page 21

Efficiency data		EPSXB + EPSK	10P50A+ 06AV3	10P50A + 08AW1	10P50A+ 10AW1	14P50A+ 12AW1	14P50A+ 14AW1
Heating performance	A-7 / W35	Max. kW	6.2	7.8	9.1	10.4	13.7
	A-7 / W55	Max. kW	6.6	7.9	9.5	12.1	13.3
COP (according to EN14511)	A7 / W35		5.19	5.01	4.94	5.50	
	A-7 / W35		3.38	3.32	2.85	3.49	
Cooling capacity	A35 / W7	Nom. kW/-	6.00 / 3.87	6.89 / 3.73	7.84 / 3.62	9.37 / 3.55	11.3 / 3.28
	A35 / W18	Nom. kW/-		6.37 / 5.63		6.74 / 6.02	
Space heating	Leaving water temperature 55°C	SCOP / η <sub>s</sub> Efficiency class*	3.91 / 153	3.94 / 155	3.99 / 157	4.04 / 159	3.84 / 150
	Leaving water temperature 35°C	SCOP / η <sub>s</sub> Efficiency class*	5.12 / 202	5.14 / 202	5.14 / 203	5.14 / 203	4.96 / 195
Hot water	η <sub>dhw</sub>	%		124			128
	Efficiency class* / tap profile				A+ / XL		

Indoor unit		EPSXB	10P50A	14P50A
Unit	Dimensions H x W x D	mm	1,906 x 785 x 837	
	Tipping dimension	mm	2,062	
	Recommended room height	mm	2,386	
	Weight	kg	109	
Energy storage	Water volume	l	477	
	Water temperature	Max. °C	85	
	Insulation	Material	HFC-free polyurethane foam	
Heat exchanger	Hot water	Heat loss kWh/24h	1.7 <sup>1)</sup>	
		Surface area m <sup>2</sup>	7.37	
		Water content l	36.4	
Pump	Type		Grundfos UPM 4 XL LIN	
Operating range	Heating	Water side	Min. ~ Max. °C	15 ~ 70
	Cooling	Water side	Min. ~ Max. °C	7 ~ 22
	Hot water	Water side	Max. °C	65
Pipe connections	Heating-side	Inch	1 1/4" female thread	
	Cold water and hot water	Inch	1" male thread	
	Pressurised solar heat exchanger		1" female thread	
	Flow / return	Inch	1 1/4" female thread	
Power supply	Phase / voltage / frequency		3~50 Hz/400 V	
	Recommended fuse	A	B 16	
Protection class	IP class		IP X0	

Outdoor unit		EPSK	06AV3	08AW1	10AW1	12AW1	14AW1
Unit	Dimensions H x W x D	mm		1,122 x 1,330 x 600		1,123 x 1,330 x 604	
	Weight	kg	174	178		191	
Compressor	Type		Hermetically sealed scroll compressor				
Operating range	Heating	Ambient	Min. ~ Max. °C	-28 ~ 25			
	Cooling	Ambient	Min. ~ Max. °C	10 ~ 43			
	Hot water	Ambient	Min. ~ Max. °C	-28 ~ 40			
Refrigerant	Type / GWP		R-290 / 0.02 (IPCC6)				
	Filling quantity / CO <sub>2</sub> -equivalent	kg / tCO <sub>2</sub> -eq.	1.0 / 0.00002		1.25 / 0.000025		
	Piping length	male thread - female thread	20 (for 1 1/4"), 30 (for 1 1/2")				
Sound power level	Heating	day	Max. dB(A)	56	57	59	60
		night	Max. dB(A)	47	48	50	51
Pipe connections	Flow / return	Inch	1 1/4" male thread				
Power supply	Phase / voltage / frequency		1~/50 Hz/230 V		3~/50 Hz/400 V		
	Recommended fuse	A	C 25		C 16		

(1) Based on ΔT = 45 K. In accordance with Regulation (EU) 811/2013 - energy labelling 2019, on a scale from D to A+++ (space heating) or F to A+ (hot water heating)  
 Note: This is preliminary product data - subject to change.

Necessary accessories	Order No.
<p><b>Circulation brake SKB</b>                      To prevent gravity circulation in heating and DHW circuits connected to the storage tank, suitable up to 95°C, for installation in all tank-side heat exchanger connections, except pressurised solar heat exchangers. PU: 2 No.</p>	165070
<p><b>Overflow valve</b>                      Overflow valve with corner fitting. Necessary component for models with cooling function to ensure the minimum flow rate at the indoor unit.                      UESV 25 with DN 25</p>	140116

# Daikin Altherma 4 H F (6 - 10 kW power rating)

Floor standing air-to-water heat pump for hot water, heating and cooling

- Easy-to-install combination of 180- or 230-litre stainless steel hot water storage tank and heat pump
- Easily accessible: PCB board and hydraulic components installed at the front
- Small footprint: only 595 x 634 mm
- Integrated 4.5 kW (designation 4V) or 9 kW (designation 9W) back-up heater
- Heat pump operation for an outdoor temperature of up to -28°C
- Optimised water flow
- New heat pump controller: MMI-4 with 5-inch touch display
- Reliable hot water heating with an outdoor temperature of up to 40°C
- R-290 rethought: perfect safety in every situation
- Ultra-quiet in night whisper mode
- Suitable for heating low and high temperature systems



For further accessories, see from page 21



Efficiency data				EPVX + EPSK	10S18A4V + 06AV3	10S18A9W + 06AV3	10S23A9W + 06AV3	10S18A4V + 08AW1	10S18A9W + 08AW1	10S23A9W + 08AW1	10S18A4V + 10AW1	10S18A9W + 10AW1	10S23A9W + 10AW1
Heating performance	A-7 / W35	Max.	kW		6.2				7.8			9.1	
COP (according to EN14511)	A7 / W35	Max.	kW		6.6				7.9			9.5	
Cooling capacity	A7 / W35				5.19				5.01			4.94	
EER	A35 / W7	Nom.	kW/-		3.38				3.32			2.85	
Space heating	A35 / W18	Nom.	kW/-		6 / 3.87				6.89 / 3.73			7.84 / 3.62	
Leaving water temperature 55°C	SCOP / ηs		%		3.91 / 153				3.94 / 155			3.99 / 157	
Leaving water temperature 35°C	Efficiency class*								A+++				
Hot water	η <sub>dhw</sub>		%		5.12 / 202				5.14 / 202			5.14 / 203	
Efficiency class* / tap profile									A+++				
					117					116			
									A+ / L				
Indoor unit				EPVX	10S18A4V	10S18A9W	10S23A9W	10S18A4V	10S18A9W	10S23A9W	10S18A4V	10S18A9W	10S23A9W
Unit	Dimensions	H x W x D	mm		1,655 x 595 x 634	1,855 x 595 x 634	1,655 x 595 x 634	1,855 x 595 x 634	1,655 x 595 x 634	1,855 x 595 x 634	1,655 x 595 x 634	1,855 x 595 x 634	1,855 x 595 x 634
	Tipping dimension	Height	mm		1,760	1,950	1,760	1,950	1,760	1,950	1,760	1,950	1,950
	Recommended room height		mm		1,955	2,155	1,955	2,155	1,955	2,155	1,955	2,155	2,155
	Weight		kg		94	111	94	111	94	111	94	111	111
Hot water storage tank	Water volume		l		180	230	180	230	180	230	180	230	230
	Water temperature	Max.	°C						70				
	Corrosion protection								Pickled				
	Insulation	Material							Polyurethane foam				
	Heat loss		kWh/24h		1.2 <sup>(1)</sup>	1.4 <sup>(1)</sup>	1.2 <sup>(1)</sup>	1.4 <sup>(1)</sup>	1.2 <sup>(1)</sup>	1.4 <sup>(1)</sup>	1.2 <sup>(1)</sup>	1.4 <sup>(1)</sup>	
Pump	Type								Grundfos				
Operating range	Heating	Water side	Min. ~ Max.	°C		15 ~ 70				15 ~ 75			
	Cooling	Water side	Min. ~ Max.	°C					7 ~ 22				
	Hot water	Water side	Max.	°C					65				
Pipe connections	Heating-side			Inch					1 1/4" female thread				
	Cold water and hot water			Inch					3/4" female thread				
Power supply	Phase / voltage / frequency								3~50 Hz/400 V				
	Recommended fuse			A	B 10	B 16	B 16	B 10	B 16	B 16	B 10	B 16	
Protection class	IP class								IP X0				
Outdoor unit				EPSK	06AV3	08AW1	10AW1						
Unit	Dimensions	H x W x D	mm			1,123 x 1,330 x 604							
	Weight		kg		174		178						
Compressor	Type								Hermetically sealed scroll compressor				
Operating range	Heating	Ambient	Min. ~ Max.	°C					-28 ~ 25				
	Cooling	Ambient	Min. ~ Max.	°C					10 ~ 43				
	Hot water	Ambient	Min. ~ Max.	°C					-28 ~ 40				
Refrigerant	Type / GWP								R-290 / 0.02 (IPCC6)				
	Filling quantity / CO <sub>2</sub> -equivalent		kg / tCO <sub>2</sub> -eq.						1.0 / 0.00002				
	Piping length	male thread - female thread	Max.	m	20 (for 1 1/4"), 30 (for 1 1/2")				20 (for 1 1/4"), 50 (for 1 1/2")				
Sound power level	Heating	day	Max.	dB(A)	56				57			59	
		night	Max.	dB(A)	47				48			50	
Pipe connections	Flow / return			Inch					1 1/4" (male thread)				
Power supply	Phase / voltage / frequency				1~50 Hz/230 V				3~50 Hz/400 V				
	Recommended fuse			A	C 25				C 16				

(1) Based on ΔT= 45 K \* In accordance with Regulation (EU) 811/2013 - energy labelling 2019, on a scale from D to A+++ (space heating) or F to A+ (hot water heating)  
Note: This is preliminary product data - subject to change.

# Daikin Altherma 4 H F (12 - 14 kW power rating)

Floor standing air-to-water heat pump for hot water, heating and cooling

- Easy-to-install combination of 180- or 230-litre stainless steel hot water storage tank and heat pump
- Easily accessible: PCB board and hydraulic components installed at the front
- Small footprint: only 595 x 634 mm
- Integrated 9 kW back-up heater
- Heat pump operation for an outdoor temperature of up to -28°C
- Optimised water flow
- New heat pump controller: MMI-4 with 5-inch touch display
- Reliable hot water heating with an outdoor temperature of up to 40°C
- R-290 rethought: perfect safety in every situation
- Ultra-quiet in night whisper mode
- Suitable for heating low and high temperature systems



For further accessories, see from page 21

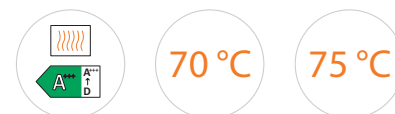
Efficiency data				EPVX + EPSK	14S18A9W + 12AW1	14S23A9W + 12AW1	14S18A9W + 14AW1	14S23A9W + 14AW1
Heating performance	A-7 / W35	Max.	kW		10.4			13.7
	A-7 / W55	Max.	kW		12.1			13.3
COP (according to EN14511)	A7 / W35						5.50	
	A-7 / W35						3.49	
Cooling capacity	A35 / W7	Nom.	kW / -		9.37 / 3.55			11.3 / 3.28
	A35 / W18	Nom.	kW / -			6.74 / 6.02		
Space heating	Leaving water temperature 55°C	SCOP / η <sub>s</sub>	%		4.04 / 159			3.84 / 150
	Leaving water temperature 35°C	SCOP / η <sub>s</sub>	%		5.14 / 203		A+++	4.96 / 195
Hot water	η <sub>dhw</sub>		%				121	
	Efficiency class* / tap profile						A+ / L	
Indoor unit				EPVX	14S18A9W	14S23A9W	14S18A9W	14S23A9W
Unit	Dimensions	H x W x D	mm		1,655 x 595 x 634	1,855 x 595 x 634	1,655 x 595 x 634	1,855 x 595 x 634
	Tipping dimension	Height	mm		1,760	1,950	1,760	1,950
	Recommended room height		mm		1,955	2,155	1,955	2,155
	Weight		kg		94	111	94	111
Hot water storage tank	Water volume		l		180	230	180	230
	Water temperature	Max.	°C				70	
	Corrosion protection						Pickled	
	Insulation	Material					Polyurethane foam	
	Heat loss		kWh/24h		1.2 <sup>(1)</sup>	1.4 <sup>(1)</sup>	1.2 <sup>(1)</sup>	1.4 <sup>(1)</sup>
Pump	Type				Grundfos			
Operating range	Heating	Water side	Min. ~ Max.	°C	15 ~ 75			
	Cooling	Water side	Min. ~ Max.	°C	7 ~ 22			
	Hot water	Water side	Max.	°C	65			
Pipe connections	Heating-side			Inch	1 1/4" female thread			
	Cold water and hot water			Inch	3/4" female thread			
Power supply	Phase / voltage / frequency				3~/50 Hz/400 V			
	Recommended fuse			A	B 16			
Protection class	IP class				IP X0			
Outdoor unit				EPSK	12AW1	14AW1		
Unit	Dimensions	H x W x D	mm		1,123 x 1,330 x 604			
	Weight		kg		191			
Compressor	Type				Hermetically sealed scroll compressor			
Operating range	Heating	Ambient	Min. ~ Max.	°C	-28 ~ 25			
	Cooling	Ambient	Min. ~ Max.	°C	10 ~ 43			
	Hot water	Ambient	Min. ~ Max.	°C	-28 ~ 40			
Refrigerant	Type / GWP				R-290 / 0.02 (IPCC6)			
	Filling quantity / CO <sub>2</sub> -equivalent		kg / tCO <sub>2</sub> -eq.		1.25 / 0.000025			
	Piping length	male thread - female thread	Max.	m	20 (for 1 1/4"), 50 (for 1 1/2")			
Sound power level	Heating	day	Max.	dB(A)	60			61
		night	Max.	dB(A)	51			51
Pipe connections	Flow / return			Inch	1 1/4" male thread			
Power supply	Phase / voltage / frequency				3~/50 Hz/400 V			
	Recommended fuse			A	C 16			

(1) Based on ΔT= 45 K \* In accordance with Regulation (EU) 811/2013 - energy labelling 2019, on a scale from D to A+++ (space heating) or F to A+ (hot water heating)  
Note: This is preliminary product data - subject to change.

# Daikin Altherma 4 H W

Wall mounted air-to-water heat pump for hot water heating, heating and cooling

- Inclusion of all hydraulic components means no third party components are required.
- Easily accessible: PCB board and hydraulic components installed at the front
- Compact dimensions, small footprint; hardly any side clearance required
- Slim, modern design so that the wall mounted unit also fits in well next to household appliances
- Can be combined with stainless steel domestic hot water tank or Daikin Altherma ST heat accumulator
- Heat pump operation at up to -28°C outdoor temperature
- Integrated 4.5 kW (designation 4V) or 9 kW (designation 9W) back-up heater
- Back-up heater adjustable in 500 watt increments
- New heat pump controller: MMI-4 with 5-inch touch display
- Reliable hot water heating with an outdoor temperature of up to 40°C
- R-290 rethought: perfect safety in every situation
- Ultra-quiet in night whisper mode
- Suitable for heating low and high temperature systems



For further accessories, see from page 21

Efficiency data				EPBX + EPSK	10A4V + 06AV3	10A9W + 06AV3	10A4V + 08AW1	10A9W + 08AW1	10A4V + 10AW1	10A9W + 10AW1	14A9W + 12AW1	14A9W + 14AW1
Heating performance	A-7 / W35	Max.	kW		6.2		7.8		9.1		10.4	13.7
	A-7 / W55	Max.	kW		6.6		7.9		9.5		12.1	13.3
COP (according to EN14511)	A7 / W35				5.19		5.01		4.94		5.50	
	A-7 / W35				3.38		3.32		2.85		3.49	
Cooling capacity	A35 / W7	Nom.	kW/-		6.00 / 3.87		6.89 / 3.73		7.84 / 3.62		9.37 / 3.55	11.3 / 3.28
EER	A35 / W18	Nom.	kW/-				6.37 / 5.63				6.74 / 6.02	
Space heating	Leaving water temperature 55°C	SCOP / η <sub>s</sub>	%		3.91 / 153		3.94 / 155		3.99 / 157		4.04 / 159	3.84 / 150
		Efficiency class*							A+++			
	Leaving water temperature 35°C	SCOP / η <sub>s</sub>	%		5.12 / 202		5.14 / 202		5.14 / 203		5.14 / 203	4.96 / 195
		Efficiency class*							A+++			
Indoor unit				EPBX	10A4V	10A9W	10A4V	10A9W	10A4V	10A9W	14A9W	14A9W
Unit	Dimensions	H x W x D	mm		840 x 440 x 390							
	Weight		kg		36.5							
Pump	Type				Grundfos							
Operating range	Heating	Water side	Min. ~ Max.	°C	15 ~ 70		15 ~ 75					
	Cooling	Water side	Min. ~ Max.	°C	7 ~ 22							
	Hot water	Water side	Max.	°C	65							
Pipe connections	Heating-side			Inch	1 1/4" female thread							
Power supply	Phase / voltage / frequency				3~/50 Hz/400 V							
	Recommended fuse			A	B 10	B 16	B 10	B 16	B 10	B 16		
Protection class	IP class				IP X0							
Outdoor unit				EPSK	06AV3	08AW1	10AW1	12AW1	14AW1			
Unit	Dimensions	H x W x D	mm		1,123 x 1,330 x 604							
	Weight		kg		174	178			191			
Compressor	Type				Hermetically sealed scroll compressor							
Operating range	Heating	Ambient	Min. ~ Max.	°C	-28 ~ 25							
	Cooling	Ambient	Min. ~ Max.	°C	10 ~ 43							
	Hot water	Ambient	Min. ~ Max.	°C	-28 ~ 40							
Refrigerant	Type / GWP				R-290 / 0.02 (IPCC6)							
	Filling quantity / CO <sub>2</sub> -equivalent			kg / tCO <sub>2</sub> -eq.	1.0 / 0.00002					1.25 / 0.000025		
	Piping length			male thread - female thread/Max.	m	20 (for 1 1/4"), 30 (for 1 1/2")		20 (for 1 1/4"), 50 (for 1 1/2")				
Sound power level	Heating	day	Max.	dB(A)	56	57	59	60	61			
		night	Max.	dB(A)	47	48	50	51	51			
Pipe connections	Flow / return			Inch	1 1/4" (male thread)							
Power supply	Phase / voltage / frequency				1~/50 Hz/230 V			3~/50 Hz/400 V				
	Recommended fuse			A	C 25			C 16				

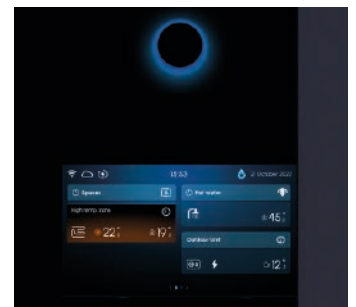
\*In accordance with Regulation (EU) 811/2013 - energy labelling 2019, on a scale from D to A+++ (space heating)  
 Note: This is preliminary product data - subject to change.



# Everything's sorted!

## Simple and intuitive: MMI-4 smart operation during use and installation

With the new MMI-4 control and the 5-inch touch display on the Daikin Altherma 4 H, you can offer your customers a first-class user experience at the same time as making your work easier! The intuitive user level provides all the important information at a glance, while the installer level contains extensive settings options and a practical commissioning wizard. And the integrated time manager ensures efficient control of heating and cooling functions.



## Madoka - the user-friendly wired remote control in a premium design

Designed for maximum user-friendliness

The Daikin Madoka is available for Daikin Altherma 3 and 4 floor standing and wall mounted units.



Black - BRC1HHDK



Silver - BRC1HHDS



White - BRC1HHDW



reddot award 2018 winner



## Easy access to advanced settings via your smartphone

### Individually selectable energy-saving functions

- Temperature setpoint limitation
- Setpoint temperature auto reset
- Off timer

### Other functions

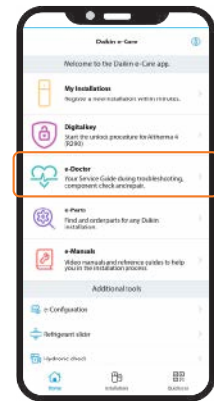
- Programming of up to three independent schedules, which the user can activate independently depending on the season (e.g. summer, winter, mid-season)
- Option to individually restrict menu functions
- Operating mode
- Desired room or domestic hot water temperature can be set



# MMI 4 unlock procedure

## 1. How do you need to generate the digital key for a R-290 unit?

- a smartphone (iOs/Android supported)
- **Daikin e-Care app** installed on your smartphone (version 8.1 or higher)
- Stand By Me professional account, with the required level of training to handle R-290 (country specific)



## 2. How does the digital key generation work?

Unit MMI

To clear this error, is required to enter the Digital Key generated via e-Care app.

e-Care app

If already registered (if not, need to register first)

First step: check if unit belongs to SBM database of registered installations - to have full traceability of installed units (HHA)

Unit MMI

To clear this error, is required to enter the Digital Key generated via e-Care app.

Press «next» after entering the 8 digits code. Installer code tells the unit if the procedure is being done ONLINE (time dependent) or OFFLINE (counter dependent)

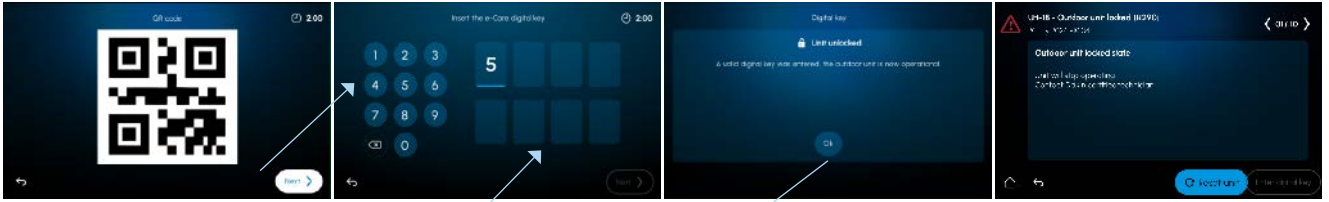
e-Care app

If all questions are correctly replied

Third step: generation of the Digital key

Second step: reply to the safety questions (8 questions) – to ensure minimum safety check before compressor activation (HHA)

Unit MMI

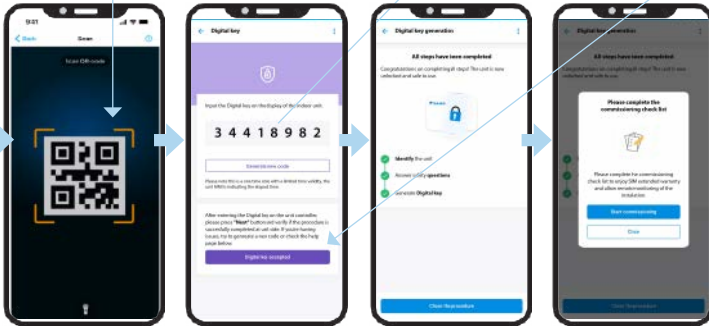


Press «next» after scanning the QR code

This code has limited time validity in ONLINE flow!

Reset the error code!

e-Care app



The Digital key is a ONE TIME CODE that can NEVER be used twice!

Procedure completed!

If this is the first activation of the compressor (commissioning), as following action the user will be asked to **complete the commissioning tool check list**, in order to allow the end user to register in SBM and access after sales offer





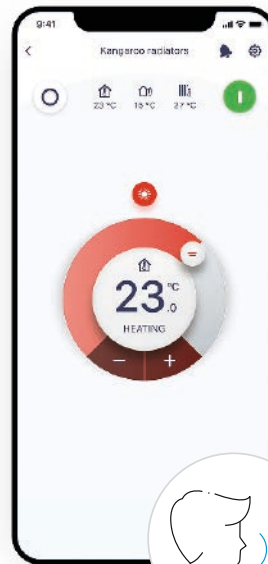
# Full control with Onecta - any time and anywhere

The Daikin Residential Controller app has been renamed Onecta. It allows you to control your Daikin Altherma heating system at any time and from anywhere.

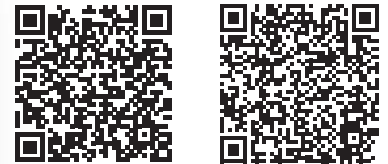
## Tried and tested features

The Onecta app features voice control, making it even easier to use. Using this function, units can be operated faster than ever before.

The voice control, which can be used for many functions and in several languages, is fully compatible with smart home devices such as Google Assistant and Amazon Alexa.

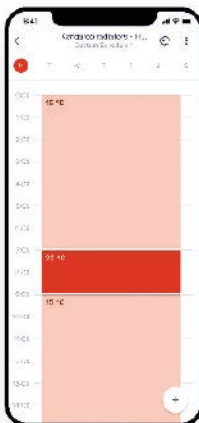


Available from the App Store or Google Play:



amazon alexa

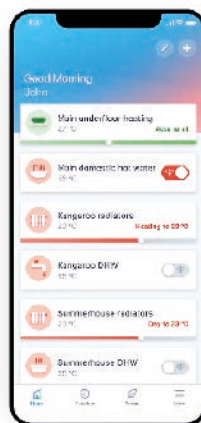
works with the Google Assistant



### Schedule

Schedule the system's operating times and define up to six actions per day.

- Schedule room temperature and operation mode
- Cost savings by activating absence mode



### Control

Customise the system to suit your lifestyle and preferred level of comfort.

- Change room and domestic hot water temperature
- Activate Powerful mode for rapid hot water heating
- Activating the streamer function


















### Monitor

Get a comprehensive overview of the system's operating behaviour and energy consumption.





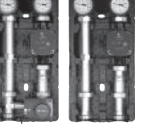





- Check the status of the heating system
- Energy consumption graphs (day, week, month)

Function availability depends on the system type, configuration and operation mode. The app functionality is only available if both the Daikin system and the app have a reliable internet connection.

# Control accessories







		4 HECH <sub>2</sub> O	4 HF	4 HW
Product	Order No.			
 <p><b>Madoka wired room thermostat (bus communication)</b> Remote control for Daikin Altherma heat pumps, incl. room thermostat function. Is required for PV optimisation (setpoint boost for space heating) in order to use the time programmes in the Onecta app or for a bivalent-alternative operating mode.</p> <p>White Silver Black</p>	<p>BRC1HHDW BRC1HHDS BRC1HHDK</p>	<p>● ● ● ● ● ● ● ● ●</p>		
 <p><b>Heating circuit controller Ceta 107</b> For systems with mixed and unmixed heating circuits, main controller for controlling a mixer circuit. <b>Attention:</b> Cannot be combined with Theta RSC OT Room Station. Please use the AF 200 outdoor temperature sensor (no. 5004679) for Ceta 107.</p>	150084	●	●	●
 <p><b>AF 200 outdoor temperature sensor</b> In combination with heating circuit controller Ceta 107 (order No. 150084).</p>	5004679	●	●	●
 <p><b>Ceta RC Room Station for connecting to Ceta-series heating circuit controllers</b> Convenient operation of all heating circuit parameters, room sensor for recording the room temperature, connection via 2-wire data bus.</p>	150083	●	●	●
 <p><b>Ceta 106 Mixer Circuit Extension module and differential temperature control</b> For systems with a mixed heating circuit, room control possible via optional Ceta RC Room Station, optionally also possible as a supplementary controller for Ceta 107 from the second mixer circuit. Outdoor sensor included.</p>	150082	●	●	●
 <p><b>Relay kit Smart Grid-ready</b> Adapter for PV or SG-Ready via contact voltage. Required for 230 V signal (high voltage).</p>	EKRELSG	●	●	●
 <p><b>Decentralised outdoor temperature sensor</b> Optional outdoor sensor; required if the temperature is not being measured with the factory-fitted sensor in the outdoor unit.</p>	EKRSC1	●	●	●
 <p><b>Relay box with 3 relays (changeover contacts)</b> Conversion from potential-loaded signal (input, 12 - 240 V) to potential-free signal (output). Application example: EVU contact.</p>	DE.CGSR-BONOMR	●	●	●
 <p><b>Connection cable for burner blocking contact BSKK</b> For ECH<sub>2</sub>O and Daikin Altherma ST heat accumulators with control and pump unit RPS2, RPS3, RPS3 M, RPS3 25 M or RPS4. Only required for drain-back systems.</p>	164110-RTX	●		●
 <p><b>Storage tank sensor SF</b> To be used if no E-Pac is being used, but the heat pump is connected directly (by the customer) to the storage tank.</p>	141067			●
 <p><b>Cascade controller for controlling up to 3 heat generators</b> Pre-wired cascade controller with touch control unit. For controlling up to 3 heat generator stages. Weather-compensated control of one mixed and one unmixed pump group (alternatively: of two mixed pump groups) possible. Fault switching via digital I/O board and reversible mixing in cooling mode possible. Requesting heat pumps via their thermostat contacts.</p>	DE.DETAUVR16X2K	●	●	●
 <p><b>Daikin HomeHub communication interface</b> Interface and function extension for Daikin heat pumps.</p>	EKRHH	●	●	●
 <p><b>Current sensor for Daikin HomeHub with PV application (required accessories)</b> Connection via enclosed connection cable (cable length: 2 m)</p>				
 <p>for 1-phase mains connections</p>	EKCSS1P	●	●	●
 <p>for 3-phase mains connections</p>	EKCSS3P	●	●	●

# Hydraulic accessories




		4 HECH <sub>2</sub> O	4 HF	4 HW	
Product	Order No.				
 <p><b>Return flow booster / limiting set with insulating shell</b> Return flow booster for Daikin Altherma units, can also be used as a return flow temperature limiter. Setting range 5 – 95°C, central inflow, incl. temperature sensor and connection cable (1.5 m, 230 V). The valve has a high Kvs value, making it ideal for heat pump applications.</p>					
	<p>DN 25 DE.RLAVENT25 ● ● ●</p> <p>DN 40 DE.RLAVENT40 ● ● ●</p>				
 <p><b>Circulation brake SKB</b> To prevent gravity circulation in heating and DHW circuits connected to the storage tank, suitable up to 95°C, for installation in all heat exchanger connections on the tank side. Not applicable for solar thermal energy. PU 2 pieces.</p>	165070	●			
 <p><b>KFE filling connection</b> For easy filling and emptying via the KFE connection tap.</p>	165215	●			
 <p><b>Mixer module (controller unit without pumps)</b> For controlling one mixed and one unmixed heating circuit, can only be controlled via one indoor unit.</p> <p><b>Note:</b> The controller unit is not compatible with bi-zone units.</p>	EKMIKPOA	●	●	●	
 <p><b>Pump group</b> For one mixed and one unmixed heating circuit. Pre-assembled, leak-tested and thermally insulated assembly. Incl. temperature indicators and adjustable gravity brake. With Grundfos pump UPM 3 hybrid 25-70/180. Connection G1, <b>without PWM cable (for pump control via PWM, please order PWM cable 5017145 separately).</b></p>	with mixer	156075	●	●	●
	without mixer	156077	●	●	●
	PWM cable	5017145	●	●	●
 <p><b>Screw fitting set for pump group</b> 1" female thread x 1 1/2", flat sealing</p>	156053	●	●	●	
 <p><b>2-way heating circuit manifold with integrated hydraulic separator</b> A distributor that combines the function of a hydraulic separator and that of a distributor. Used in heating and air conditioning systems, it supports control of different lines. Individual side connections, incl. wall bracket and pre-moulded insulation shell insulation. Can be combined with pump group 156075 or 156077.</p> <p><b>Attention:</b> Please note the installation of the heating circuit manifold with the side connection pieces orientated to the right.</p>	156078	●	●	●	
 <p><b>Hydraulic multifunction separator HW2500</b> With preformed thermal insulation and drain tap, for vertical installation, inlet / outlet 1" female thread (DN 25), with union nut, up to 2,500 litres flow rate.</p> <p>Function: - Hydraulic separation - Venting - Sludge separation - Removal of magnetic particles</p>	156025	●	●	●	
 <p><b>Hydraulic separator HWC with suitable DN 125 thermal insulation for up to 3 heat generators</b> Consisting of DN 125 round pipe divided into four zones (overall length approx. 1,550 mm), fitted with 6 x 1" male thread heating circuit connections, 2 x 1 1/2" male thread heat distribution connections and 1 x 1/2" male threads for venting, with stand, 40 kW max. output, 6 bar max. permissible operating pressure, 110°C max. permissible temperature, volume: 25 litres.</p> <p>Set includes thermal insulation in accordance with GEG, consisting of 60 mm PUR foam in a galvanised sheet steel casing.</p>	DE.HWC125SET	●	●	●	
 <p><b>25 litre upstream vessel (flow-through)</b> Mini-buffer with 2 connections (G 1 1/2" female thread) for compliance with the prescribed minimum system volume, wall mounted. Also suitable for cooling function with a minimum leaving water temperature of 15°C and a maximum room humidity of 65 %.</p> <p>Material: unalloyed steel, 35 mm EPP insulation Energy efficiency class B** Max. permissible operating pressure: 3 bar, diameter: 360 mm, Height: 534 mm, unladen weight: 7.1 kg</p>	DE.PREVM2V25	●	●	●	

\* Note: Article is in discount group R6 (net price)\*\* In accordance with Regulation (EU) 811/2013 - energy labelling 2019, on a scale from F to A+

## Hydraulic accessories

Product	Order No.	4 HECH <sub>2</sub> O	4 HF	4 HW
 <p><b>Mini-buffer 100 litres (separator)</b> Mini-buffer with 6 connections (G 1 1/2" female thread) for hydraulic decoupling and/or integrating an additional heat generator and for compliance with the prescribed minimum system volume. 1/2" female thread for venting, on feet. Also suitable for cooling function with a minimum leaving water temperature of 15°C and a maximum room humidity of 65 %.</p> <p>Material: unalloyed steel, 35 mm EPP insulation Energy efficiency class B** Max. permissible operating pressure: 3 bar, diameter: 490 mm, Height: 547 mm, unladen weight: 13.2 kg</p>	DE.PREVM6H100	●	●	●
 <p><b>Circulation set with thermostatic mixer VTR300 as scalding protection</b> Thermal safety device for the domestic hot water pipe with thermal insulation and screw fitting set, setting range 35 - 60°C, for simple integration of a circulation system.</p>	156024	●	●	●
 <p><b>3-way changeover valve with insulation shell and storage tank sensor</b> Set for switching between domestic hot water and heating mode for Daikin Altherma heat pumps. The set includes a storage tank sensor SF (141067). Flow-optimised (higher Kvs value), ideal for heat pump applications, central inflow.</p>	DE.3UVENT25SET			●
 <p><b>Overflow valve</b> Overflow valve with corner fitting. Necessary component for models with cooling function to ensure the minimum flow rate at the indoor unit.</p> <p>UESV 25 with DN 25</p>	140116	●	○	○
 <p><b>Bambini water treatment system</b> With holder and backflow preventer. For the demineralisation of tap water. For use in heating water, cooling water, steam generation, battery water and flushing technology. Operating pressure 2 – 8.6 bar, temperature range 4 – 30°C. For approx. 350-litre system volume. Not suitable for drinking water treatment.</p>	153047	●	●	●
 <p><b>EK Bambini replacement cartridge</b> For Bambini water treatment system.</p>	153048	●	●	●

## Accessories for outdoor units

 <p><b>Antifreeze valve</b> Thermal drain valve for automatic draining at a medium temperature of less than 4°C (always required in flow and return).</p> <p><b>Note:</b> With Daikin Altherma 4, frost protection valves are already integrated in the outdoor unit. Depending on the pipework, additional frost protection valves should be installed.</p> <p>1 1/4" male thread</p>	AFVALVE125	278	○	○	○
 <p><b>Rubber feet set</b> Made of robust recycled rubber, with aluminium rail, for quick and easy installation on a flat and level surface, incl. 2 x rubber feet and 2 x screw set. For windy locations. Dimensions: 1,000 x 160 x 95 mm</p>	DE.STANDGU10HA	85	●	●	●
 <p><b>Floor stand for Daikin Altherma 4 H</b> Suitable for mounting the heat pump on a strip foundation or on rubber feet, made of stainless steel, incl. adjustable feet and rubber buffer for sound insulation, easy to install.</p>	EKMST4	On request	●	●	●

○ Included in the scope of delivery

\* Note: Article is in discount group R6 (net price)

\*\* In accordance with Regulation (EU) 811/2013 - energy labelling 2019, on a scale from F to A+

# Into a sustainable future with Daikin



In view of climate change and the urgent need to move away from fossil fuels such as oil and gas, Daikin is focussing on a sustainable future.




With innovative solutions and a clear focus on environmentally friendly growth, Daikin offers a comprehensive product portfolio that helps to reduce environmentally harmful emissions. Through its service portfolio, the company promotes the maximum service life of its products and thus supports the careful use of resources. Daikin is thus making a decisive contribution to an environmentally conscious and sustainable society.

## Daikin's strategy for sustainability and efficiency

Daikin relies on a flexible selection and development of refrigerants to ensure **environmental friendliness, safety, efficiency** and **cost-savings** are optimally harmonised. Our aim is to offer customised solutions for different applications and the greatest possible flexibility. The future focus will be on the refrigerants **R-32** (GWP 675), **R-290** (GWP 0.02\*), **R-454C** (GWP 145.5) and **R-744** / CO<sub>2</sub> (GWP 1).

### Its definite advantage is its flexibility of use

A comparison of R-32 with natural refrigerants such as propane (R-290), ammonia or CO<sub>2</sub> makes it clear that having a broad spectrum of refrigerants provides a definite advantage. With a value of 675, R-32 has a higher GWP, but as an A2L refrigerant it is only flame-retardant and non-toxic. These properties mean that R-32 systems can be installed without additional specifications for the installation site. In addition, R-32 is significantly more energy-efficient in use than CO<sub>2</sub>, for example.

Refrigerant	R-32	R-290 (propane)
 GWP	675	0.02*
 Safety class	A2L - flame-retardant; non-toxic	A3 - highly flammable; non-toxic
 Flexibility for the set-up	<b>No additional requirements</b> apply to heat pumps with R-32. They therefore allow <b>maximum flexibility</b> and can be installed in many <b>different types of building</b> .	<b>Stringent requirements</b> apply to heat pumps with R-290. Due to the <b>increased flammability</b> , the <b>prescribed distances</b> from windows and doors must be maintained. The unit must not be concealed or installed near an e-charging station.



\* according to IPCC6



## Service for maximum service life and conservation of resources

Our portfolio of services supports your customers in saving energy, reducing emissions and achieving their sustainability goals.

### 1. Maximum service life

- **Maintenance:** Regular maintenance extends the service life of the systems and minimises the use of resources due to early replacement.
- **Spare parts and repairs:** Fast repairs and original spare parts prevent major breakdowns and reduce waste by extending system uptime.
- **Overhaul:** Modernisation makes it possible to use existing systems sustainably instead of disposing of them. This reduces the consumption of materials and energy.

### 2. Energy saving

- **Remote monitoring and surveillance:** Through precise control, unnecessary energy consumption can be avoided and resources thus conserved.
- **Energy optimisation:** Optimising the energy requirements of the systems minimises CO<sub>2</sub> emissions in the long term.
- **Replacement:** Replacing outdated appliances with modern, more efficient systems helps to significantly optimise energy consumption and emissions.



### 3. Circular economy

**LOOP by Daikin - the unique programme for refrigerant recycling:** Recycling refrigerants minimises new production and reduces the environmental impact.

Find out more about this topic at [https://www.daikin.de/de\\_de/daikin-blog/building-a-circular-economy.html](https://www.daikin.de/de_de/daikin-blog/building-a-circular-economy.html)

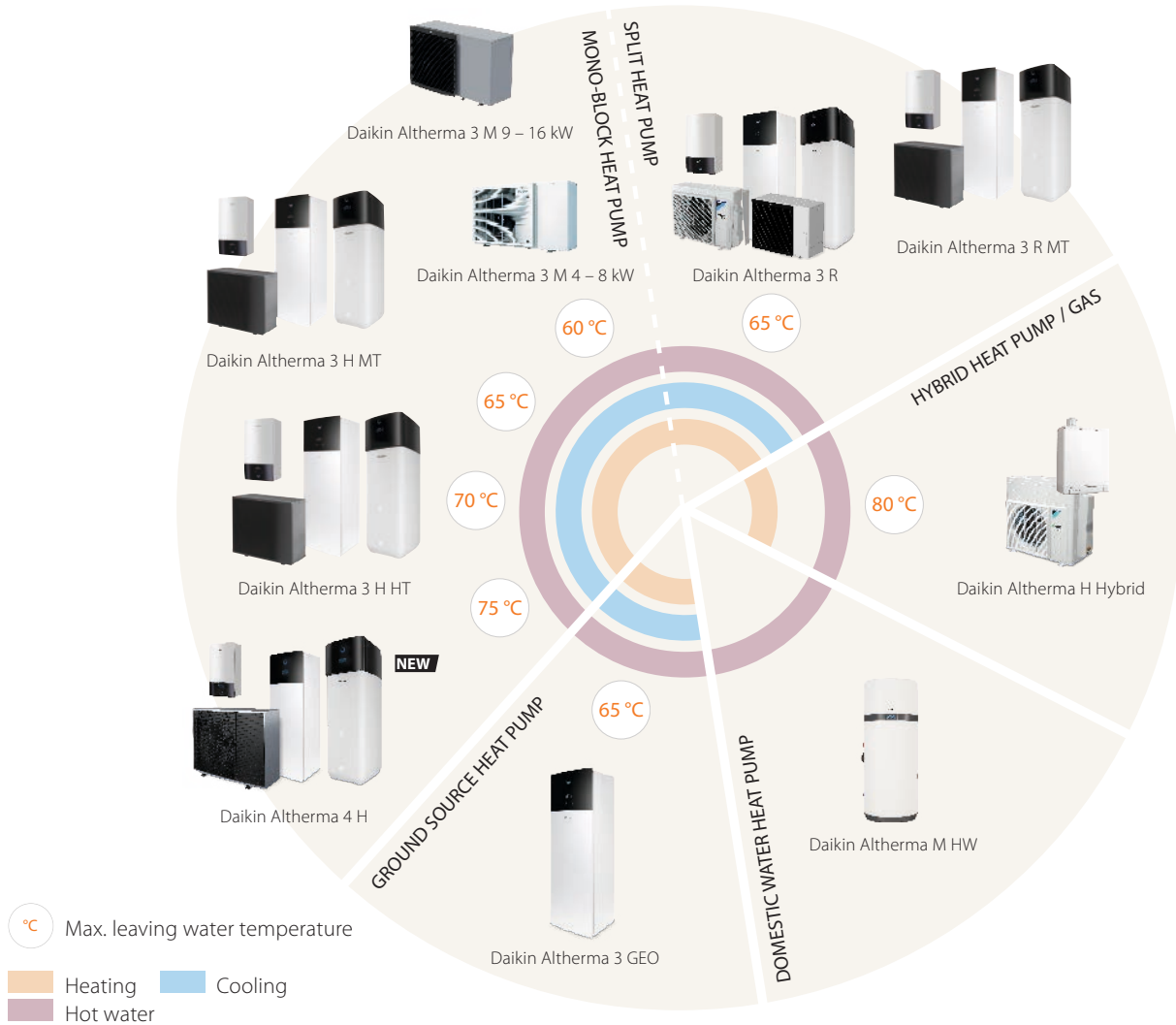


### 4. Reducing costs and emissions

- **Heat recovery:** By recovering excess heat, less energy is required, which significantly reduces both costs and CO<sub>2</sub> emissions.
- **Retrofitting EC and inverter:** More modern technologies increase efficiency and thus reduce energy consumption.

# A solution for every need

Whether modernising or building a new house or flat: A Daikin heat pump is the ideal choice. Our heat pumps can be combined with a wide range of additional components for heat transfer, control and renewable energy generation. This gives you a customised heating system for a comfortable climate at any time of the year, which is also characterised by optimum energy efficiency.

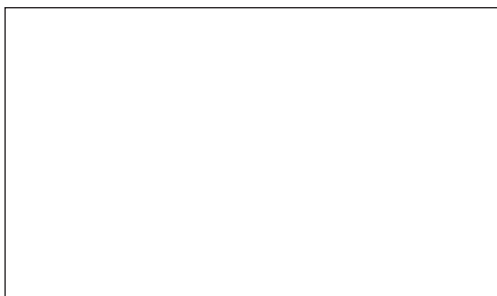


Daikin Europe N.V. Naamloze Vennootschap Zandvoordestraat 300 · 8400 Oostende · Belgium · www.daikin.eu · BE 0412 120 336 · RPR Oostende (Publisher)

05/25 ECPEN25-723



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 Check ongoing validity of certificate:  
[www.eurovent-certification.com](http://www.eurovent-certification.com)



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