DAIKIN

altherma

Daikin Altherma 3 H HT Heat Pump

E-Series



High temperature air-to-water heat pump

Heating, cooling and domestic hot water

DESIGN AWARD 2019

reddot design award winner 2019

QUIET MARK





Table of contents

Daikin Altherma 3 H HT **8**

Daikin Altherma 3 H HT wall mounted indoor unit **8**

Daikin Altherma 3 H HT floor standing indoor unit **10**

Domestic hot water **13**

Controls **14**

- Madoka for heating 14
- Daikin online controller 15

Heat pump convectors **16**

- Floor standing model 16
- Wall mounted model 18
- Concealed model 19

Stand By Me **20**



Designed to withstand the coldest climate conditions

Made in Europe, for Europe

The new Daikin Altherma 3 H HT E-Series is designed to perform reliably, whatever the weather. This single fan outdoor unit achieves some of the highest efficiencies and lowest sound levels in the market. The sleek design makes it an aesthetically pleasing solution for all settings.

The Altherma H HT E-Series is a heat pump system designed for the renovation market. Available with both an integrated water tank and wall mounted indoor options, it delivers excellent performance and provides leaving water temperatures of up to 70°C. Environmentally friendly, the system uses R32 refrigerant, with GWP (Global Warming Potential) of just 675.

With the upgraded E-Series, we have introduced some new advanced features, including cloud connectivity and a Wireless LAN adaptor for the residential App control, Smart Grid compatibility and upgraded software for improved performance.

Features and benefits

› Ideal for boiler replacement, due to its high leaving water temperature (LWT)
› LWT of 70°C down to -15°C with heat pump operation only
› Operation range down to -28°C
› Updated software for better performance

Easy and quick installation:
› No F-gas licence needed - only water connection between indoor and outdoor unit
› Sealed refrigerant circuit in outdoor unit - no risk of refrigerant leakage
› All hydraulic components accessible from the top
› Wall mounted and integrated water tank variants

Easy configuration and commissioning:
› Configuration in 9 easy steps via the MMI controller (User Interface)
› Selection and configuration via HSN

Cloud-ready:
› Comes pre-fitted with the cloud and app control functionality. Simply insert the included SD card into the indoor unit to initiate
› Comes with the in-built smart grid connections

BLUEVOLUTION

Bluevolution technology combines a specially developed compressor and R32 refrigerant. Daikin is a global pioneer: the first to have launched heat pumps using R32. With a lower Global Warming Potential (GWP), R32 is equivalent in power to standard refrigerants, but achieves higher energy efficiency and lower CO_2 emissions.

Easy to recover and reuse, R32 is the perfect solution for attaining the new CO_2 emission targets.

R-32

Main features

1. WLAN/SD card included with the indoor unit.
2. Compatible with both integrated and wall mounted indoor variants.
3. In-Built Smart Grid connections for the solar PV connectivity.
4. Upgraded software for better performance.

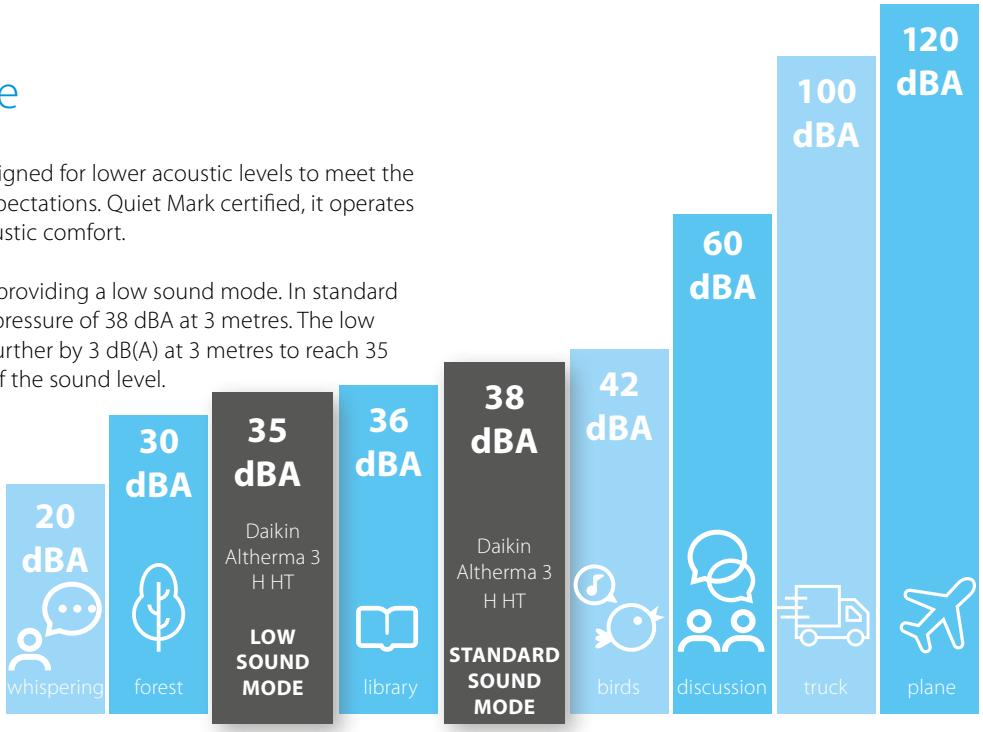


Meeting modern society's expectations

The comfort of silence

The Daikin Altherma 3 H HT has been designed for lower acoustic levels to meet the needs of urban areas and homeowner expectations. Quiet Mark certified, it operates at whisper-quiet levels for maximum acoustic comfort.

The system offers enhanced flexibility by providing a low sound mode. In standard sound mode, the unit produces a sound pressure of 38 dBA at 3 metres. The low sound mode reduces the pressure even further by 3 dB(A) at 3 metres to reach 35 dB(A), representing a real reduction of half the sound level.



QUIET MARK

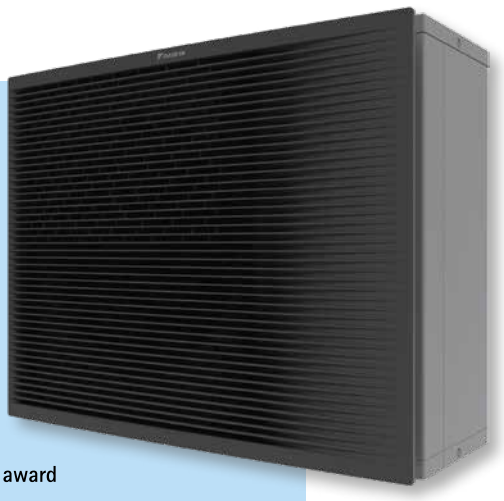
Award-winning design

Along with acoustic comfort, specific attention has been given to the design of the outdoor unit. It has been designed to blend seamlessly into the home environment.

The black front horizontal grill conceals the fan inside, while the matt grey casing blends discreetly with the surrounding architecture. Winner of IF and reddot design awards 2019.

DESIGN AWARD 2019

reddot design award
winner 2019





Innovation
At the heart of our concerns

Thanks to the latest design developments, the Daikin Altherma 3 H HT is the pinnacle of acoustic comfort and heating performance. Several major components have been enhanced to achieve this excellence - such as a double injection compressor and a single fan even on large capacity units - all wrapped up in a brand-new casing.

A redesigned casing

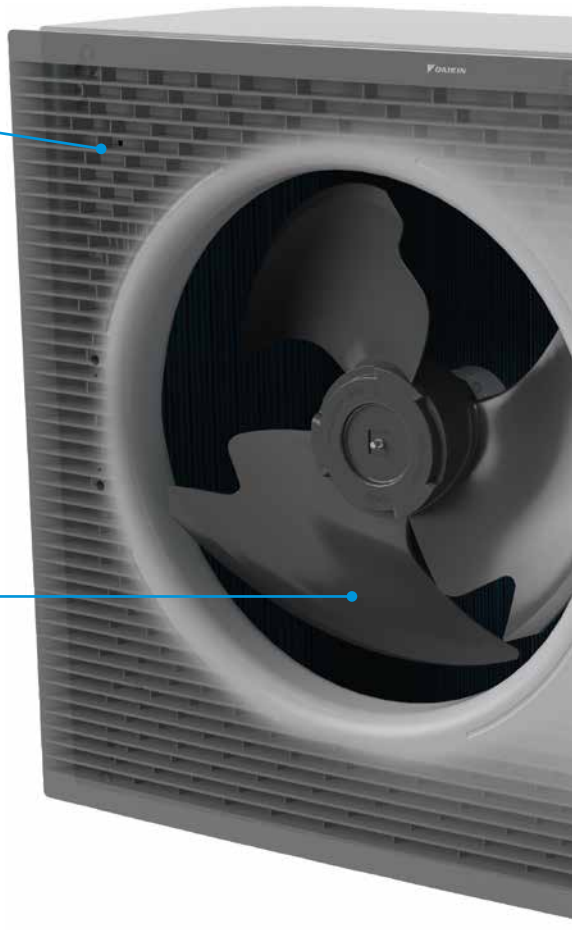
The black front grill of horizontal lines hides the fan from view, reducing the perception of the sound produced by the unit.

The light grey casing better reflects the environment in which the unit is installed, helping it to blend in with any decor.

This unique design has already received multiple design awards.

DESIGN AWARD 2019

reddot design award
winner 2019



A single fan for high capacities

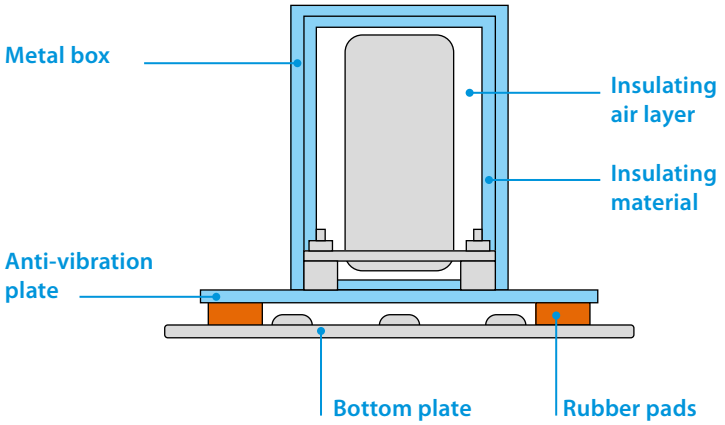
The single fan is slightly larger, replacing the usual double fan for high-capacity units.

The shape of the fan has also been reviewed to reduce the contact surface with the air, therefore reducing the sound level by improving the air circulation.

Compressor insulation and anti-vibration

Compressor sound power has been reduced by improving absorption and insulation.

The compressor has been designed with three-layer insulation of air, insulation material and a metal box. The unit also benefits from double sound reduction by using rubber pads between the bottom plate and the vibration plate under the compressor, thereby maximising absorption.





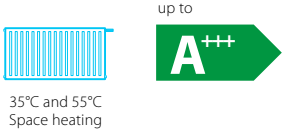
New double injection compressor

Daikin Europe joined forced with Daikin Japan to develop world class components for this unique system. The Daikin Altherma 3 H HT compressor is able to deliver a high leaving water temperature of 70°C on its own.

Moreover, Daikin is a pioneer in launching heat pumps using R-32. With a lower Global Warming Potential (GWP), the R-32 is equivalent in power to standard refrigerants, but achieves higher energy efficiency and lower CO_2 emissions. Easy to recover and reuse, R-32 is the perfect solution for attaining the new European CO_2 emission targets.

Unrivalled capacities

With these new developments, the Daikin Altherma 3 H HT achieves the best performances illustrated in the energy labels:



35°C and 55°C
Space heating



Daikin Altherma 3 H HT Wall mounted unit

Daikin wall mounted unit

The Daikin Altherma 3 H HT split wall mounted unit offers heating and cooling with optimum flexibility for a quick and easy installation.

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 allow 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 domestic hot water tank



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

Daikin Altherma 3 H HT

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

- 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 domestic hot water tank
- Heat pump operation down to -28°C



up to A+++ 70°C R-32

Indoor Unit (wall hung)			Heating Only		Heating and Cooling	
			ETBH16E6V	ETBH16E9W	ETBX16E6V	ETBX16E9W
Compatible outdoor unit			EPRA14-18DV/DW1	EPRA14-18DV/DW1	EPRA14-18DV/DW1	EPRA14-18DV/DW1
Compatible DHW Cylinders			EKHWSU-D	EKHWSU-D	EKHWSU-D	EKHWSU-D
User interface (Must be ordered separately)			BRC1HHD(W/S/K)	BRC1HHD(W/S/K)	BRC1HHD(W/S/K)	BRC1HHD(W/S/K)
Function			Heating Only	Heating Only	Reversible	Reversible
Dimensions	Height x Width x Depth	mm	840 x 440 x 390	840 x 440 x 390	840 x 440 x 390	840 x 440 x 390
Operating range	Heating	°C	+18 to +70	+18 to +70	+18 to +70	+18 to +70
	Cooling	°C	-	-	+5 to +25	+5 to +25
	Domestic hot water [1]	°C	+10 to 75	+10 to 75	+10 to 75	+10 to 75
Pump	No. of speeds		Inverter controlled	Inverter controlled	Inverter controlled	Inverter controlled
Expansion vessel volume		litres	10	10	10	10
Minimum water volume		litres	20	20	20	20
Minimum flow rate		l/min	25	25	25	25
Water connections		inch	1" (female)	1" (female)	1" (female)	1" (female)
Backup heater power supply [2]	Phase		1~ / 3~	3~	1~ / 3~	3~
	Frequency	Hz	50	50	50	50
	Voltage	V	230	400	230	400
	Maximum capacity [3]	kW	6 (2 step)	9 (2 step)	6 (2 step)	9 (2 step)
	Maximum running current	A	26	13	26	13
	Recommended fuse rating [4]	A	20	20	20	20

Notes

[1] Tank temperature up to 75°C possible with booster heater only operation (if available in the system).

[2] Power supply is for backup heater only. Indoor unit switch box and circulation pump are supplied via the outdoor unit

[3] Backup heater steps electronically setup on the indoor unit interface.

[4] 4 pole 20A curve 400V tripping class C (refer to wiring diagram)

Outdoor Units			Single Phase			Three Phase		
			EPRA14DV3	EPRA16DV3	EPRA18DV3	EPRA14DW1	EPRA16DW1	EPRA18DW1
Description			Class 14	Class 16	Class 18	Class 14	Class 16	Class 18
Dimensions [1]	Height x Width x Depth	mm	990 x 1270 x 460	990 x 1270 x 460	990 x 1270 x 460	990 x 1270 x 460	990 x 1270 x 460	990 x 1270 x 460
Weight		kg	146	146	146	151	151	151
Nominal capacity	Heating (a/b)	kW	10.17 / 10.12	11.57 / 11.51	12.11 / 12.04	10.39 / 10.26	11.82 / 11.67	12.37 / 12.21
	Cooling (c/d)	kW	10.55 / 6.90	11.51 / 7.88	12.46 / 8.86	10.55 / 6.90	11.51 / 7.88	12.46 / 8.86
Seasonal space heating efficiency (Heating Only Indoor Unit)	Space heating (Average climate) 35°C	Class	A+++	A+++	A+++	A+++	A+++	A+++
		Efficiency	177	177	177	186	186	186
		SCOP	4.51	4.51	4.51	4.71	4.71	4.71
	Space heating (Average climate) 55°C	Class	A++	A++	A++	A++	A++	A++
		Efficiency	140	140	140	140	140	140
		SCOP	3.58	3.58	3.58	3.57	3.57	3.57
Seasonal space heating efficiency (Reversible Indoor Unit)	Space heating (Average climate) 35°C	Class	A+++	A+++	A+++	A+++	A+++	A+++
		Efficiency	180	180	180	180	180	180
		SCOP	4.57	4.57	4.57	4.57	4.57	4.57
	Space heating (Average climate) 55°C	Class	A++	A++	A++	A++	A++	A++
		Efficiency	142	142	142	142	142	142
		SCOP	3.62	3.62	3.62	3.63	3.63	3.63
COP	Heating (e/f)		4.86 / 3.70	4.86 / 3.70	4.86 / 3.70	4.50 / 3.56	4.50 / 3.56	4.50 / 3.56
EER	Cooling (c/d)		4.13 / 2.70	4.11 / 2.69	4.09 / 2.68	4.13 / 2.70	4.11 / 2.69	4.09 / 2.68
Operation range	Heating	°C	-28 to +35	-28 to +35	-28 to +35	-28 to +35	-28 to +35	-28 to +35
	Cooling	°C	+10 to +43	+10 to +43	+10 to +43	+10 to +43	+10 to +43	+10 to +43
	Domestic Hot water	°C	-28 to +35	-28 to +35	-28 to +35	-28 to +35	-28 to +35	-28 to +35
Sound pressure / power level	Heating	dBA	43 / 54	44 / 54	48 / 54	43 / 54	43 / 54	48 / 54
	Cooling	dBA	43 / 54	44 / 54	48 / 54	43 / 54	43 / 54	48 / 54
Refrigerant charge	R-32	kg	4.2	4.2	4.2	4.2	4.2	4.2
Water Connections (Diameter)		inch	1" (Male)	1" (Male)	1" (Male)	1" (Male)	1" (Male)	1" (Male)
Piping length OU to IU [2]		m	10 [2]	10 [2]	10 [2]	10 [2]	10 [2]	10 [2]
Power supply			1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	3-phase / 400V / 50Hz	3-phase / 400V / 50Hz	3-phase / 400V / 50Hz
Recommended fuses		A	32	32	32	16	16	16

Nominal capacity and nominal input tested according to EN 14511
Heating (a): Ambient air temperature -2°CDB and leaving water temperature 55°C (A-2/W55). Heating (b): Ambient air temperature -2°CDB and leaving water temperature 65°C (A-2/W65)
Cooling (c): Ambient air temperature 35°C and leaving water temperature 18°C (A35/W18). Cooling (d): Ambient air temperature 35°C and leaving water temperature 7°C (A35/W7)
Heating (e): Ambient air temperature 7°CDB and leaving water temperature 35°C (A7/W35). Heating (f): Ambient air temperature 7°CDB and leaving water temperature 45°C (A7/W45)
Sound pressure / power measured according to EN 12102 under conditions of EN 14825
[1] Excludes aesthetic grill
[2] Spare pump capacity can be utilised to extend the interconnecting pipe length using the Daikin HSN pipe sizing tool.

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R-32

BLUEVOLUTION



Daikin Altherma 3 H HT

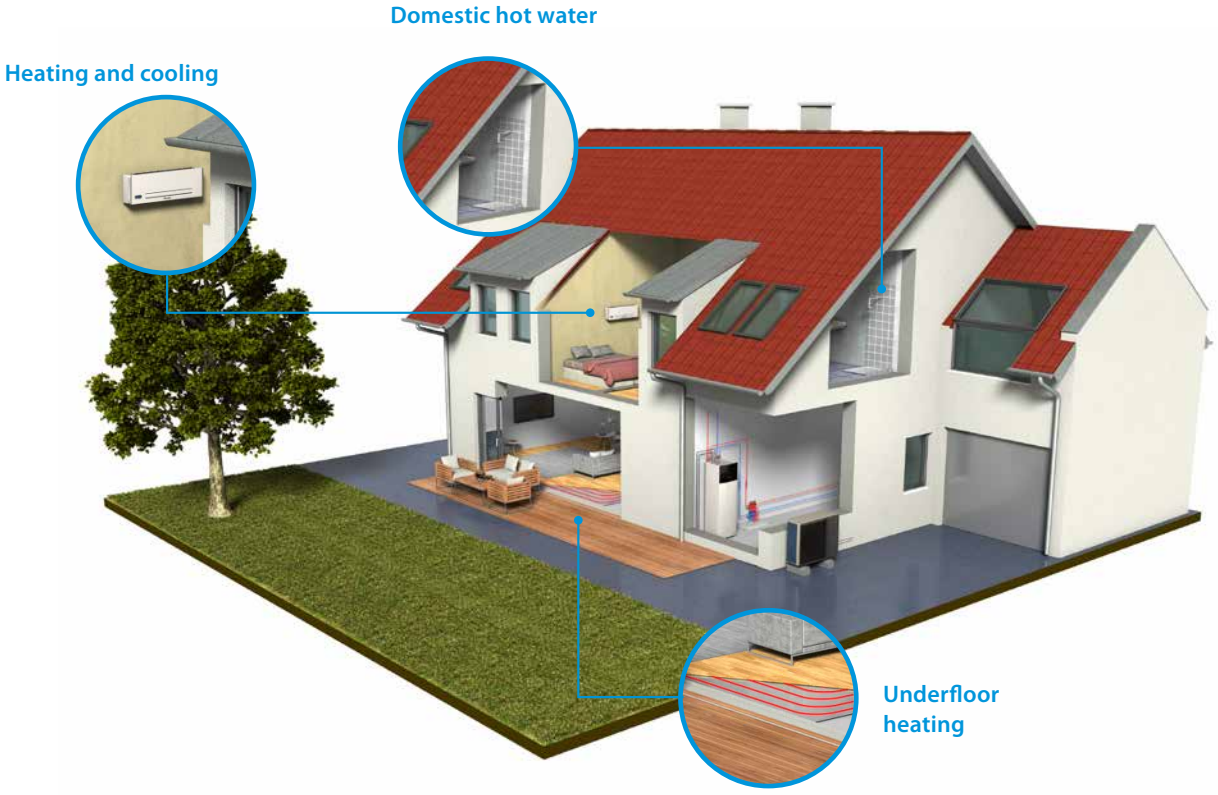
Floor standing unit with integrated tank

Daikin floor standing unit

The Daikin Altherma floor standing unit delivers heating and domestic hot water in one fully-integrated system.

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

- Reduced footprint 595 x 600 mm
- 180 or 230 litre tank options
- All hydraulic components on top for easy installation and maintenance
- Black top high-resolution MMI controller [User Interface] and Daikin Eye to show status
- WLAN SD card supplied as standard for the Residential Control App as well as Cloud Interface
- Smart Grid Ready



Daikin Altherma 3 H HT

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

- A combined stainless steel domestic hot water tank of 180 or 230L 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 of 6kW
- Heat pump operation down to -28°C



up to A+++ | 70°C | R-32

Indoor Units (Floor Standing)			Single Phase	
			ETVH16SU18E6V	ETVH16SU23E6V
Compatible outdoor unit			EPRA14/16/18DV3/W1	EPRA14/16/18DV3/W1
User interface (must be ordered separately)			BRC1HDD(W/S/K)	BRC1HDD(W/S/K)
G3 Kit (must be ordered separately)			EKUHWG3D	EKUHWG3D
Function			Heating only	Heating only
Casing	Colour		White	White
	Material		Resin + Sheet Metal	Resin + Sheet Metal
Dimensions	Height x Width x Depth	mm	1,650 x 595 x 625	1,850 x 595 x 625
Weight	Unit / Packed Unit	kg	109 / 126	118 / 135
Operating range	Heating	Min-Max.	10°C - 63°C	10°C - 63°C
	DHW	Max.	63°C [1]	63°C [1]
Sound power level	Nom.	dBA	44	44
Sound pressure level	Nom.	dBA	30	30
Tank	Water Volume	Litres	180	230
	Maximum water pressure	bar	10	10
	Material		Stainless steel (EN 1.4521)	Stainless steel (EN 1.4521)
	Load profile EN16147		L	XL
	Standing heat loss	W	56	73
	Energy efficiency rating		C	B
	Standing heat loss @ 45K dT	kWh/24h	1.8	1.4
Hydraulic characteristics	Water connections Indoor / outdoor	inch	G 1" (female)	G 1" (female)
	Water connections DHW / Recirc	inch	G 3/4" (female)	G 3/4" (female)
	Water connections Space heating	inch	G 1" (female)	G 1" (female)
Minimum water volume		litres	20	20
Minimum flow rate		l/min	20	20
Backup heater power supply [2]	Phase		1~ / 3~	1~ / 3~
	Frequency	Hz	50	50
	Voltage	V	230	230
	Maximum capacity	kW	6 (2 step) [3]	6 (2 step) [3]
	Maximum running current	A	26	26
	Recommended fuse rating	A	20 [4]	20 [4]

Notes - Indoor unit

[1] Tank temperature up to 75°C possible with booster heater only operation (if available in the system).

[2] Power supply is for backup heater only. Indoor unit switch box and circulation pump are supplied via the outdoor unit

[3] Backup heater steps electronically setup on the indoor unit interface.

[4] 4 pole 20A curve 400V tripping class C (refer to wiring diagram)

Notes - Outdoor unit

[1] Excludes aesthetic grill

[2] Spare pump capacity can be utilised to extend the interconnecting pipe length using the Daikin HSN pipe sizing tool.

Outdoor Units			Single Phase			Three Phase		
			EPRA14DV3	EPRA16DV3	EPRA18DV3	EPRA14DW1	EPRA16DW1	EPRA18DW1
Description			Class 14	Class 16	Class 18	Class 14	Class 16	Class 18
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Nominal capacity	Heating (a/b)	kW	10.17 / 10.12	11.57 / 11.51	12.11 / 12.04	10.39 / 10.26	11.82 / 11.67	12.37 / 12.21
	Cooling (c/d)	kW	10.55 / 6.90	11.51 / 7.88	12.46 / 8.86	10.55 / 6.90	11.51 / 7.88	12.46 / 8.86
Seasonal space heating efficiency (Heating Only Indoor Unit)	Space heating (Average climate) 35°C	Class	A+++	A+++	A+++	A+++	A+++	A+++
		Efficiency	177	177	177	186	186	186
		SCOP	4.51	4.51	4.51	4.71	4.71	4.71
	Space heating (Average climate) 55°C	Class	A++	A++	A++	A++	A++	A++
		Efficiency	140	140	140	140	140	140
		SCOP	3.58	3.58	3.58	3.57	3.57	3.57
Seasonal space heating efficiency (Reversible Indoor Unit)	Space heating (Average climate) 35°C	Class	A+++	A+++	A+++	A+++	A+++	A+++
		Efficiency	180	180	180	180	180	180
		SCOP	4.57	4.57	4.57	4.57	4.57	4.57
	Space heating (Average climate) 55°C	Class	A++	A++	A++	A++	A++	A++
		Efficiency	142	142	142	142	142	142
		SCOP	3.62	3.62	3.62	3.63	3.63	3.63
COP	Heating (e/f)		4.86 / 3.70	4.86 / 3.70	4.86 / 3.70	4.50 / 3.56	4.50 / 3.56	4.50 / 3.56
EER	Cooling (c/d)		4.13 / 2.70	4.11 / 2.69	4.09 / 2.68	4.13 / 2.70	4.11 / 2.69	4.09 / 2.68
Operation range	Heating	°C	-28 to +35	-28 to +35	-28 to +35	-28 to +35	-28 to +35	-28 to +35
	Cooling	°C	+10 to +43	+10 to +43	+10 to +43	+10 to +43	+10 to +43	+10 to +43
	Domestic Hot water	°C	-28 to +35	-28 to +35	-28 to +35	-28 to +35	-28 to +35	-28 to +35
Sound pressure / power level	Heating	dBA	43 / 54	44 / 54	48 / 54	43 / 54	43 / 54	48 / 54
	Cooling	dBA	43 / 54	44 / 54	48 / 54	43 / 54	43 / 54	48 / 54
Refrigerant charge	R-32	kg	4.2	4.2	4.2	4.2	4.2	4.2
Water Connections (Diameter)		inch	1" (Male)	1" (Male)	1" (Male)	1" (Male)	1" (Male)	1" (Male)
Piping length OU to IU [2]		m	10 [2]	10 [2]	10 [2]	10 [2]	10 [2]	10 [2]
Power supply			1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	3-phase / 400V / 50Hz	3-phase / 400V / 50Hz	3-phase / 400V / 50Hz
Recommended fuses		A	32	32	32	16	16	16

Nominal capacity and nominal input tested according to EN 14511
Heating (a): Ambient air temperature -2°CDB and leaving water temperature 55°C (A-2/W55). Heating (b): Ambient air temperature -2°CDB and leaving water temperature 65°C (A-2/W65)
Cooling (c): Ambient air temperature 35°C and leaving water temperature 18°C (A35/W18). Cooling (d): Ambient air temperature 35°C and leaving water temperature 7°C (A35/W7)
Heating (e): Ambient air temperature 7°CDB and leaving water temperature 35°C (A7/W35). Heating (f): Ambient air temperature 7°CDB and leaving water temperature 45°C (A7/W45)
Sound pressure / power measured according to EN 12102 under conditions of EN 14825



Accessories

Accessory Ref	Description
BRC1HHDW	Madoka Heating - White
BRC1HHDS	Madoka Heating - Silver
BRC1HHDK	Madoka Heating - Black
EKRELSG	Smart grid relay kit (high voltage)
AFVALVE1	Anti-freeze valve for glycol free systems (two required per heat pump)
EKPCCAB4	PC cable – to upload field settings from PC to unit
EKRSC1	Optional remote temperature sensor for outdoor unit*
KRCS01-1	Optional remote temperature sensor for indoor unit*
EKRP1HBA	Optional PCB kit for remote alarm monitoring, run and fault indication and bivalent operation
EKRP1AHT	Optional PCB for upto 4 digital inputs for power limitation
UK.FF600H150	Pair of flexi-feet for mounting outdoor unit, 150mm tall**
UK.CBR2XXL-B	Wall bracket for outdoor unit (250 Kg, 780mm long arm, 2 arms, black)
UK.DT4	Condensate drip tray (1420 x 550 x 50mm)
K.DTFB	Floor bracket kit to mount drip tray to pair flexi-feet or wall bracket
K.HOSE750	Pair of flexible hoses (Length 750mm, 19mm tough PVC coated insulation, 1" FBSP x 28mm compression)
K.HOSE750EL	Pair of flexible hoses with elbow (Length 750mm, 19mm tough PVC coated insulation, 1" FBSP x 28mm compression)
EKUMBPART	Third party tank connection kit for dry pocket (contains 3 way valve, tank sensor and contactor)
BRP069A71	Residential Controller App (See note)
K.ELECMETV	**Electric meter for domestic RHI - Single-phase (Metering for performance compliant)** MID Class A electric meter to measure the electricity consumption of the Daikin Altherma heat pump
K.ELECMETW	**Electric meter for domestic RHI - Three-phase (Metering for performance compliant)** MID Class A electric meter to measure the electricity consumption of the Daikin Altherma heat pump
EKCC8-W	Sequence Controller
DCOM-LT/IO	Daikin Altherma I/O (Sequence Controller/Voltage/Resistance/Smart Grid) Gateway
DCOM-LT/MB	Daikin Altherma Modbus Gateway

Notes:

i) * Only one optional remote sensor can be installed. Sensor connects to indoor unit.

ii ** Recommended to achieve minimum outdoor unit ground clearance of 150mm.

iii) SD Card BRP069A78 is supplied as standard. This option will only be required in case of bad connectivity in location of the indoor unit

i



Domestic hot water tank

Hot water heating installation options

Stainless steel domestic hot water tank



EKHWSU-D

Comfort

› Available in 150, 180, 200, 250 and 300 litres in stainless steel EKHWSU-D

Efficiency

› High-quality insulation keeps heat loss to a minimum
› Efficient temperature heating: from 10°C to 50°C in only 60 minutes

Reliability

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

EKHWSU-D

Hot Water Cylinder

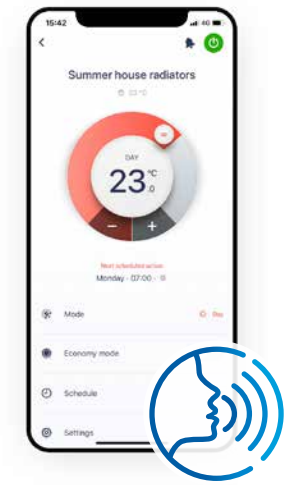
Domestic hot water cylinder			SB.EKHWSU150/EKEXP	SB.EKHWSU180/EKEXP	SB.EKHWSU200/EKEXP	SB.EKHWSU250/EKEXP	SB.EKHWSU300/EKEXP
Description			**150L unvented cylinder (Including EKEXPVES)**	**180L unvented cylinder (Including EKEXPVES)**	**200L unvented cylinder (Including EKEXPVES)**	**250L unvented cylinder (Including EKEXPVES)**	**300L unvented cylinder (Including EKEXPVES)**
Suitable for			R32 Split and Monobloc systems				
Energy efficiency class			B	B	B	B	B
Standing heat loss (ErP)		W	45	50	55	60	68
Storage volume		litres	145	174	192	242	292
Standing heat loss		kWh/24h	1.1	1.2	1.3	1.4	1.6
Max water temperature		°C	75	75	75	75	75
Booster heater capacity		kW	3	3	3	3	3
Power supply			1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	1-phase / 230V / 50Hz
Recommended fuses		A	20	20	20	20	20
Height		mm	1015	1175	1283	1553	1763
Diameter		mm	595	595	595	595	595
Empty weight		kg	45	50	53	58	63
Material inside cylinder			Stainless steel (EN 1.4521)	Stainless steel (EN 1.4521)	Stainless steel (EN 1.4521)	Stainless steel (EN 1.4521)	Stainless steel (EN 1.4521)
Piping connections (diameter)	Water inlet H/E	inch	3/4 " (female)	3/4 " (female)	3/4 " (female)	3/4 " (female)	3/4 " (female)
	Water outlet H/E	inch	3/4 " (female)	3/4 " (female)	3/4 " (female)	3/4 " (female)	3/4 " (female)
	Cold water in	inch	3/4 " (female)	3/4 " (female)	3/4 " (female)	3/4 " (female)	3/4 " (female)
	Hot water out	inch	3/4 " (female)	3/4 " (female)	3/4 " (female)	3/4 " (female)	3/4 " (female)

Features:

> This stainless steel unvented cylinder is the ideal partner for Daikin Altherma R32 Split and Low temperature monobloc systems
> Fitted with a 3kW immersion heater as standard
> Quick and easy installation with semi pre-plumbed G3 safety kit included
> Supplied with 3-way valve



Always in control



NEW

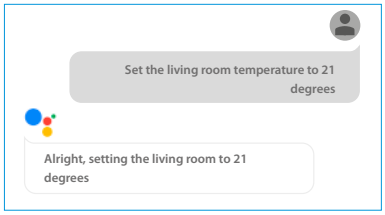
Voice control

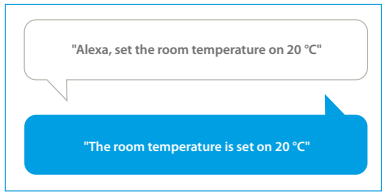
To provide even more comfort and ease, the Daikin Residential Controller App now offers voice control. This hands-free feature cuts down on clicks to manage units faster than ever before.

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

works with the Google Assistant

amazon alexa





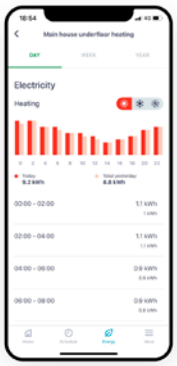
Example of using the voice control via Amazon Alexa



Schedule

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

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



Monitor

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

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



Control

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

- ☑ Change room and domestic hot water temperature
- ☑ Turn on powerful mode to boost hot water production

Scan the QR code to download the app now

DAIKIN

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.

Available on the App Store

GET IT ON Google Play

Madoka for Heating

reddot award 2018
winner

DESIGN AWARD 2018

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

Intuitive control with a premium design:

The smooth curves of the Madoka for Heating 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:

Madoka for Heating will perfectly complement any interior design scheme. Silver has a sophisticated finish to suit any interior or application, while Black is an ideal match for darker, stylish interiors and White offers a sleek, modern look.

Easily-set operation parameters:

Setting and fine-tuning your controller is simple and helps 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

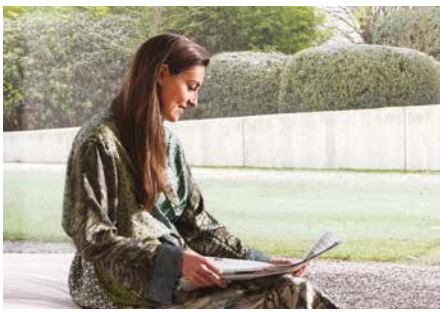
GET IT ON Google Play

Available on the App Store

www.daikin.co.uk/madoka

Daikin Altherma HPC

Floor standing model

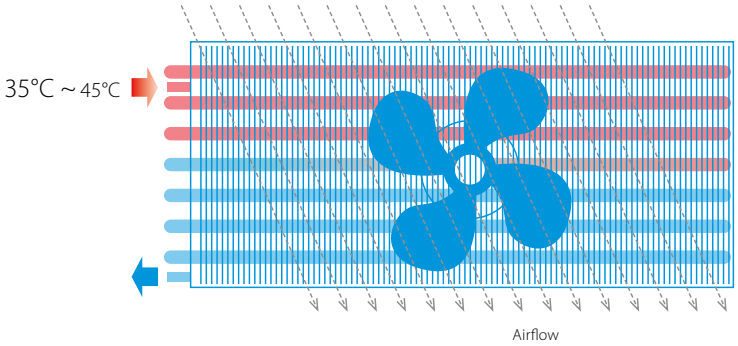


By providing cooling and heating, Daikin Altherma HPC is compatible with underfloor piping and can replace outdated radiators. Available in three models (floor standing, wall mounted and concealed), its silent operation makes it an ideal choice for living rooms and bedrooms.

What is a heat pump convector?

A heat pump convector operates in a similar manner to a radiator; both use convection to heat a room. A radiator creates convection by running water through its pipes. However, 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.

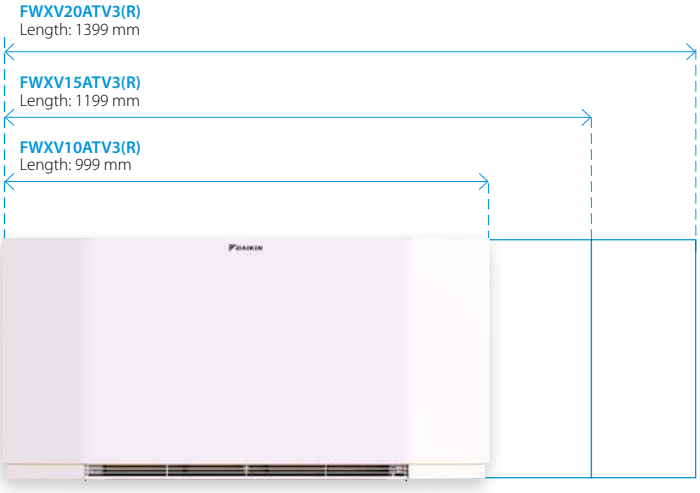
A heat pump convector creates the same room temperature as a traditional radiator, but with lower water temperatures in the radiator. This contributes to direct energy savings for users.



› Optimised for new build houses
› Can be selected at low water temperature (35°C) making it ideal for heat pump applications.

Slim design

Measuring just 135mm in depth, the slim design of the floor standing Daikin Altherma HPC makes it the perfect fit for any house or apartment.



Fast and high capacity

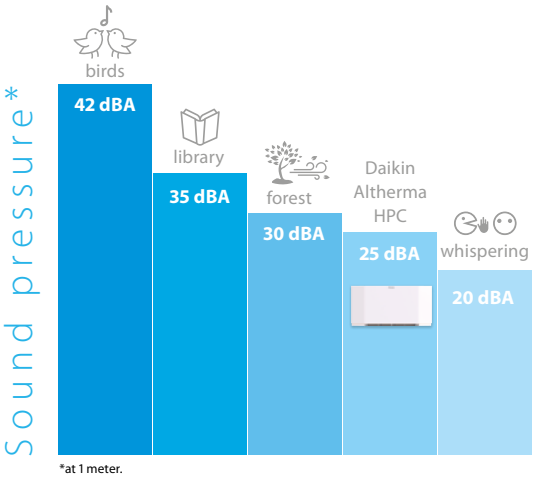
The Daikin Altherma HPC combines the advantages of residential underfloor heating and radiators. It delivers high-capacity heating or cooling at speed, and can be selected at ultra-low temperatures (35/30°C regime).





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 1m when the fan is on a low-speed setting.



*at 1 meter.

DC inverter

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

Controls

Choose from a wide range of controllers to find the design and functionality you require.

EKRTCTRL1



- Built-in controller
- Fully modulating
- Multi colour display

EKRTCTRL2



- Built-in controller
- 4 speed selection

EKWHCTRL1



- Wall controller
- Fully modulating
- In combination with EKWHCTRL0

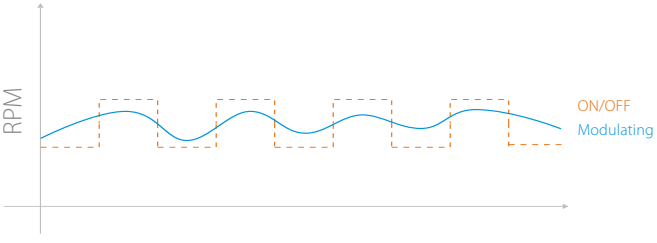
EKPCBO



- 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.

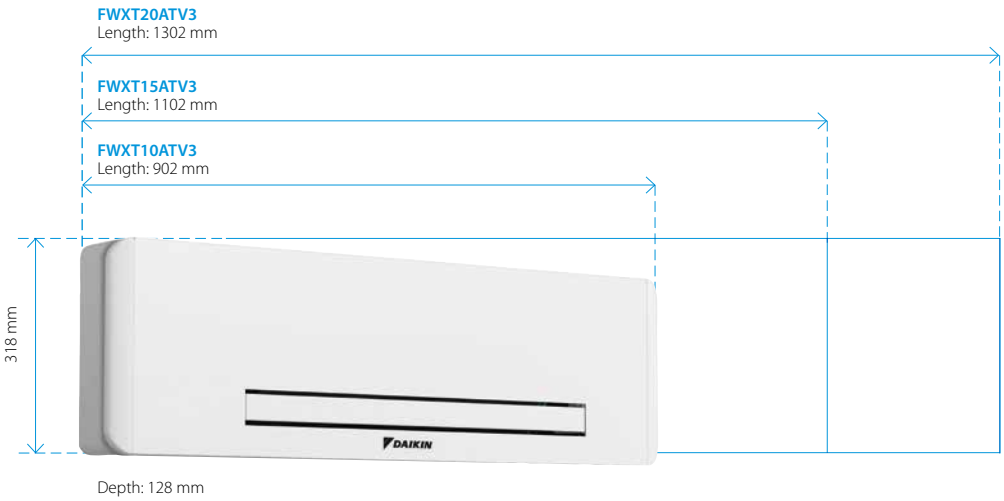




Wall mounted model

Slim design

Daikin Altherma HPC is a compact unit made of a design metal casing including all valves.



Controls

Fully modulating controller allowing remote control of the unit.

EKWHCTRL1



- Wall controller
- Fully modulating

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 wide and accessible space for hydraulic valves ensures easy, hassle-free installation.

3 MODULATED AIRFLOW

When heating demand is reduced, the unit modulates airflow to slow down the fan and minimise operational sound.



Concealed model

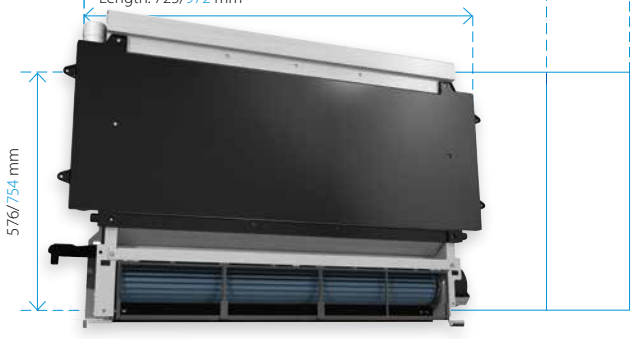
Slim design

Blue dimensions are for the front cover.

FWXM20ATV3(R)
Length: 1125/1372 mm

FWXM15ATV3(R)
Length: 925/1172 mm

FWXM10ATV3(R)
Length: 725/972 mm



Depth: 128 mm

Controls

EKWHCTRL1



› Wall controller
› Fully modulating
› In combination with EKWHCTRL0



Flexible installation

The Daikin Altherma HPC unit can be installed in four ways, making it suitable for installation in almost every setting. The unit can be positioned either horizontally or vertically as required. Three different possibilities are available for horizontal ceiling installation:

› 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



Stand By Me

A complete customer after-care solution

With your customer's new Daikin installation and Stand By Me warranty and maintenance options, you can rest assured they are benefiting from the best comfort, energy efficiency, usability and service available on the market. Stand By Me provides an easy way to hand over the system to your customer. Simply complete the commissioning details on standbyme.daikin.co.uk, add your customer's email address and they will receive a code so they can create an account on Stand By Me and select their warranty and maintenance options.

Installation database

Stand By Me provides a live dashboard of your project leads and, once the system is commissioned, your existing installations. So you can review and manage which products were installed, where and when.

Easy commissioning

Hand over couldn't be simpler either. Simply complete the commissioning details, add your customer's email address and they will receive a code so they can create an account on **Stand By Me** and select their warranty and maintenance options.

End user warranty registration

Warranty registration (previously on KEY) is now all done on **Stand By Me.** Once you've commissioned the system and emailed the code to your customer, your database will show you if the end-user has completed the warranty registration and the length of time remaining on their warranty*.

Installation database

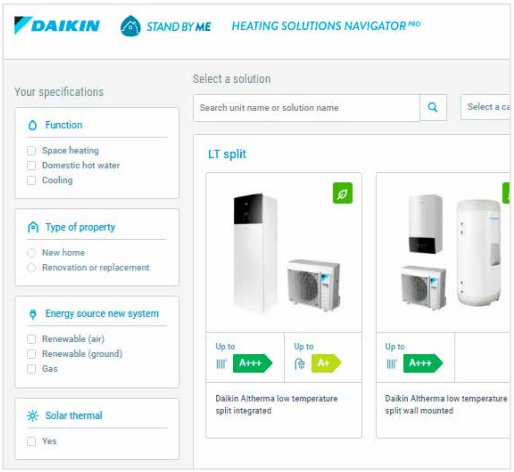
Stand By Me means that social housing providers no longer need physical access to properties in order to read meters for RHI reports. Remote monitoring of meters on **Stand By Me** provides a daily summary of the energy produced, consumed and the system efficiency, which can be submitted to Ofgem for RHI reporting. The Daikin remote metering cloud has been designed specifically for Daikin Altherma Hybrid systems and connects with your installed meters to provide all the information needed for quarterly RHI reporting.

Heating Solutions Navigator

The Heating Solutions Navigator is a versatile toolkit on Stand By Me, which brings together all the tools required to complete the design and selection of a system and allows you to showcase Daikin heating solutions to your customers.

The Heating Solutions Navigator helps you to:

- Quickly see the wide array of Daikin Heating Solutions available
- Check all the options specifically for your installation
- Link easily to the installation specific literature
- Estimate the required heat load – from a simple snapshot to a detailed room-by-room calculation
- Use the embedded Pipe Sizing tool to calculate the maximum hydronic piping length from the indoor unit to the outdoor unit
- Create custom made piping and wiring diagrams
- Use the flue gas selection tool for gas based solutions
- Set the configuration of your installation
- Compare economic and environmental benefits of the Daikin system versus a conventional heating installation
- Store all your leads on your Stand By Me account
- Track projects from lead, installation and commissioning to inviting your customers to select after-sales services



daikin.co.uk

National Heating Installer Hub: 01932 879070

Heating Services Contact Centre: 01932 879271

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