

# 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



Indoor Units (Floor Standing)			Single Phase	
			ETVH16SU18E6V EPRA14/16/18DV3/W1	ETVH16SU23E6V EPRA14/16/18DV3/W1
<b>Compatible outdoor unit</b>			BRC1HDD(W/S/K)	BRC1HDD(W/S/K)
<b>User interface (must be ordered separately)</b>			EKUHWG3D	EKUHWG3D
<b>G3 Kit (must be ordered separately)</b>				
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 <sup>[1]</sup>	63°C <sup>[1]</sup>
Sound power level	Nom.	dBA	44	44
	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 <sup>[2]</sup>	Phase		1~ / 3~	1~ / 3~
	Frequency	Hz	50	50
	Voltage	V	230	230
	Maximum capacity	kW	6 (2 step) <sup>[3]</sup>	6 (2 step) <sup>[3]</sup>
	Maximum running current	A	26	26
	Recommended fuse rating	A	20 <sup>[4]</sup>	20 <sup>[4]</sup>

## Notes - Indoor unit

- <sup>[1]</sup> Tank temperature up to 75°C possible with booster heater only operation (if available in the system).
- <sup>[2]</sup> Power supply is for backup heater only. Indoor unit switch box and circulation pump are supplied via the outdoor unit
- <sup>[3]</sup> Backup heater steps electronically setup on the indoor unit interface.
- <sup>[4]</sup> 4 pole 20A curve 400V tripping class C (refer to wiring diagram)

## Notes - Outdoor unit

- <sup>[1]</sup> Excludes aesthetic grill
- <sup>[2]</sup> 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 Class 14	EPRA16DV3 Class 16	EPRA18DV3 Class 18	EPRA14DW1 Class 14	EPRA16DW1 Class 16	EPRA18DW1 Class 18
<b>Description</b>								
Dimensions <sup>[1]</sup>	Height x Width x	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	
Weight		kg	146	146	146	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	
	Cooling (c/d)	kW	10.55 / 6.90	11.51 / 7.88	12.46 / 8.86	10.55 / 6.90	11.51 / 7.88	
Seasonal space heating efficiency (Heating Only Indoor Unit)	Space heating (Average climate) 35°C	Class	A+++	A+++	A+++	A+++	A+++	
		Efficiency	177	177	177	186	186	
	SCOP	4.51	4.51	4.51	4.71	4.71		
		4.71	4.71	4.71	4.71	4.71		
	Space heating (Average climate) 55°C	Class	A++	A++	A++	A++	A++	
		Efficiency	140	140	140	140	140	
SCOP	3.58	3.58	3.58	3.57	3.57			
	3.57	3.57	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+++	
		Efficiency	180	180	180	180	180	
	SCOP	4.57	4.57	4.57	4.57	4.57		
		4.57	4.57	4.57	4.57	4.57		
	Space heating (Average climate) 55°C	Class	A++	A++	A++	A++	A++	
		Efficiency	142	142	142	142	142	
SCOP	3.62	3.62	3.62	3.63	3.63			
	3.63	3.63	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	
EER	Cooling (c/d)		4.13 / 2.70	4.11 / 2.69	4.09 / 2.68	4.13 / 2.70	4.11 / 2.69	
Operation range	Heating	°C	-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	
	Domestic Hot water	°C	-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	
	Cooling	dBA	43 / 54	44 / 54	48 / 54	43 / 54	43 / 54	
Refrigerant charge	R-32	kg	4.2	4.2	4.2	4.2	4.2	
Water Connections (Diameter)		inch	1" (Male)	1" (Male)	1" (Male)	1" (Male)	1" (Male)	
Piping length OU to IU <sup>[2]</sup>		m	10 <sup>[2]</sup>	10 <sup>[2]</sup>	10 <sup>[2]</sup>	10 <sup>[2]</sup>	10 <sup>[2]</sup>	
Power supply			1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	3-phase / 400V / 50Hz	3-phase / 400V / 50Hz	
Recommended fuses		A	32	32	32	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