

Danfoss Heat Pumps UK



Danfoss Heat Pump DHP-H

Efficient and sustainable.



Danfoss DHP-H uses new innovative technology to operate at the highest possible annual efficiency. It takes energy from the ground, bedrock or water and converts it to temperatures perfect for heating and hot water for your home. It operates so efficiently that you can cut your heating costs and carbon emissions significantly.



The integrated hot water tank (180 l) incorporates our patented TWS* technology, producing hot water faster and at higher temperatures than with traditional technology.



The DHP-H operates at a low sound level and it can easily be adapted to produce cost effective cooling. You can control and monitor DHP-H via the Internet and the controller is advanced but very user friendly.



* Tap Water Stratificator, our patented technology developed to stratify hot water in a tank to ensure that heat is used optimally.



Kiwa applies to single phase models only

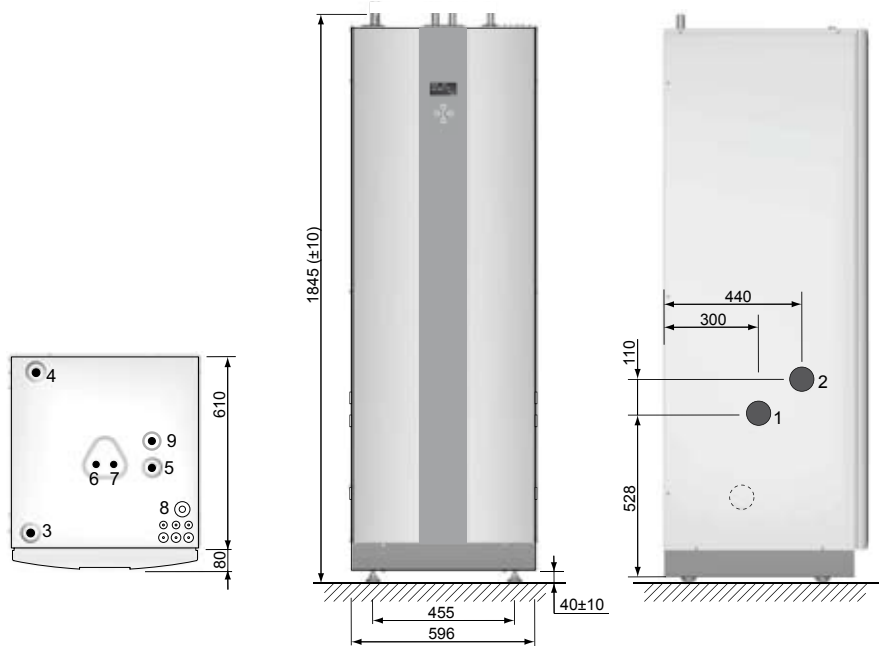
DANFOSS HEAT PUMPS

VDBMB402

DANFOSS DHP-H

Connection

- 1 Brine in, 28 Cu
- 2 Brine out, 28 Cu
- 3 Heating system supply line, 22 Cu: 4-10 kW, 28 Cu: 12-16 kW
- 4 Heating system return line, 22 Cu: 4-10 kW, 28 Cu: 12-16 kW
- 5 Expansion line, 22 Cu
- 6 Hot water line, 22 Brass
- 7 Cold water line, 22 Brass
- 8 Lead-in for supply, sensor and communication cables
- 9 Temperature and pressure valve (single phase models only)



DHP-H			6	8	10	12	16
Refrigerant	Type		R407C	R407C	R407C	R407C	R407C
	Amount	kg	1.20	1.30	1.45	1.55	2.00
Compressor	Type		Scroll	Scroll	Scroll	Scroll	Scroll
Electrical data 3-N~50Hz	Main supply	Volt	400	400	400	400	400
	Rated power, compressor	kW	2.0	2.3	3.6	4.4	5.6
	Rated power, circulation pumps	kW	0.2	0.2	0.4	0.5	0.5
	Auxiliary heater, 3 steps	kW	3/6/9	3/6/9	3/6/9	3/6/9	3/6/9
	Start current per phase ¹	A	12	10	18	18	18
	Circuit breaker	A	10 ⁴ /16 ⁵ /20 ⁶	16 ⁴ /16 ⁵ /20 ⁶	16 ⁴ /16 ⁵ /20 ⁶	16 ⁴ /20 ⁵ /25 ⁶	20 ⁴ /20 ⁵ /25 ⁶
Electrical data 1-N~50Hz	Main supply	Volt	230	230	230	230	*
	Rated power, compressor	kW	3.3	4.2	5.4	5.7	*
	Rated power, circulation pumps	kW	0.2	0.2	0.4	0.5	*
	Auxiliary heater, 3 steps	kW	1.5/3.0/4.5	1.5/3.0/4.5	1.5/3.0/4.5	1.5/3.0/4.5	*
	Start current - soft start	A	11	21	26	28	*
	Circuit breaker	A	25 ⁴ /32 ⁵ /40 ⁶	25 ⁴ /32 ⁵ /40 ⁶	32 ⁴ /40 ⁵ /50 ⁶	32 ⁴ /40 ⁵ /50 ⁶	*
Performance	COP ²		4.74	4.88	4.84	4.75	4.80
	COP ³		4.04	4.34	4.24	4.20	3.99
	Heating capacity ³	kW	5.33	7.51	9.40	11.0	16.4
	Power input ³	kW	1.3	1.7	2.2	2.6	4.1
Max/min temperature	Cooling circuit	°C	20/-10	20/-10	20/-10	20/-10	20/-10
	Heating circuit	°C	55/20	55/20	55/20	55/20	55/20
Water volume	Water heater	l	180	180	180	180	180
	Condensor	l	1.6	1.9	2.1	2.1	2.9
	Evaporator	l	0.7	1.2	1.6	1.6	2.2
	De-superheater	l	*	*	*	*	*
Anti freeze media Ethylene glycol water solution to -15°C							
Dimensions LxWxH	mm		690x596x1845	690x596x1845	690x596x1845	690x596x1845	690x596x1845
Weight empty	kg		229	229	229	238	242
Weight filled	kg		409	409	409	418	422
Sound power level⁸	dB(A)		47.3	43.7	45.6	48.5	56.8

The measurements are performed on a limited number of heat pumps which can cause variations in the results. Tolerances in the measuring methods can also cause variations.

- 1) According to IEC61000.
- 2) At B0W35 Δ10K warm side (excluding circulation pumps).
- 3) At B0W35 according to EN 14511 (including circulation pumps).
- 4) Heat pump with 3 kW auxiliary heater (1-N 1.5 kW).
- 5) Heat pump with 6 kW auxiliary heater (1-N 3 kW).

- 6) Heat pump with 9 kW auxiliary heater (1-N 4.5 kW).
- 7) Fuse protection phase L1 (size 4 is equipped with an 1-phase compressor).
- 8) Sound power level measured according to EN ISO 3741 at B0W45 (EN 12102).
- *) Not available in this version.

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