



Danfoss Heat Pump DHP-H

Efficient and sustainable.

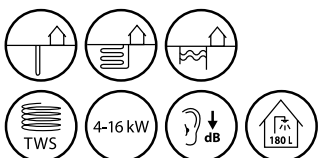


Danfoss DHP-H uses new innovative technology to operate at the highest possible annual efficiency. This means you can get 75% or more of your energy consumption for free – using renewable energy stored in the bedrock, the ground or the water. This provides a sustainable and environmentally friendly heating solution.

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.

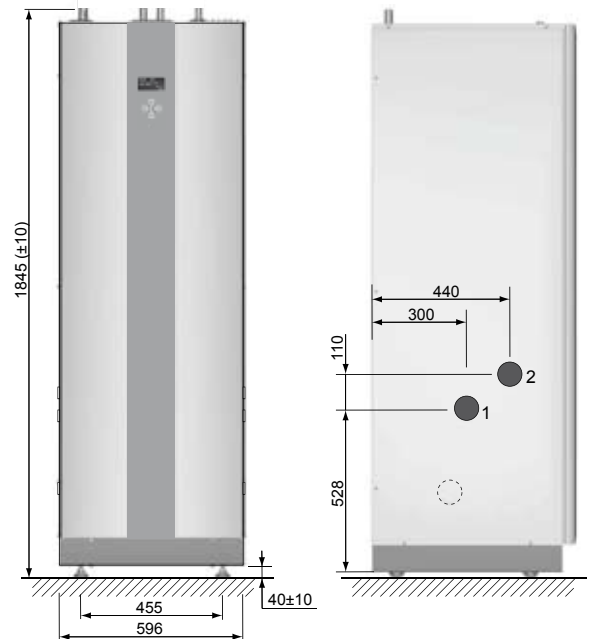
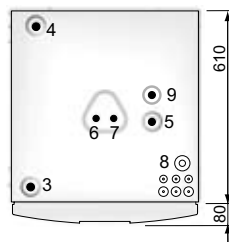
* Tap Water Stratificator, our patented technology developed to stratify hot water in a tank to ensure that heat is used optimally.



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 (valid only on certain models and markets)



DHP-H			4	6	8	10	12	16
Refrigerant	Type		R407C	R407C	R407C	R407C	R407C	R407C
	Amount	kg	0.75	1.20	1.30	1.45	1.55	2.00
Compressor	Type		Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Electrical data 3-N~50Hz	Main supply	Volt	400	400	400	400	400	400
	Rated power, compressor	kW	2.7	2.0	2.3	3.6	4.4	5.6
	Rated power, circulation pumps	kW	0.2	0.2	0.2	0.4	0.5	0.5
	Auxillary heater, 3 steps	kW	3/6/9	3/6/9	3/6/9	3/6/9	3/6/9	3/6/9
	Start current ¹	A	17	12	10	18	17	18
	Circuit breaker	A	16 ⁷ +10 ⁴ /10 ⁵ /16 ⁶	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	230	*
	Rated power, compressor	kW	2.7	3.3	4.2	5.4	5.7	*
	Rated power, circulation pumps	kW	0.2	0.2	0.2	0.4	0.5	*
	Auxillary 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	1.5/3.0/4.5	*
	Start current	A	17	11	21	26	28	*
	Circuit breaker	A	20 ⁴ /25 ⁵ /32 ⁶	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		4.37	4.74	4.88	4.84	4.75	4.80
	COP ³		3.90	4.04	4.34	4.24	4.20	3.99
	Heating capacity ³	kW	3.52	5.33	7.51	9.40	11.0	16.4
	Power input ³	kW	0.9	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	20/-10
	Heating circuit	°C	55/20	55/20	55/20	55/20	55/20	55/20
Water volume	Water heater	l	180	180	180	180	180	180
	Condensor	l	0.8	1.6	1.9	2.1	2.1	2.9
	Evaporator	l	0.7	0.7	1.2	1.6	1.6	2.2
	De-superheater	l	*	*	*	*	*	*
Anti freeze media			Ethylene glycol/ Ethanol	Ethylene glycol/ Ethanol	Ethylene glycol/ Ethanol	Ethylene glycol/ Ethanol	Ethylene glycol/ Ethanol	Ethylene glycol/ Ethanol
Dimensions LxWxH	mm	690x596x1845	690x596x1845	690x596x1845	690x596x1845	690x596x1845	690x596x1845	
Weight empty	kg	225	229	229	229	238	242	
Weight filled	kg	405	409	409	409	418	422	
Sound power level⁸	dB(A)	45.5	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 BOW35 Δ10K warm side (excluding circulation pumps).
- 3) At BOW35 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 BOW45 (EN 12102).
- *) Not available in this version.