DHP-H ground source heat pump

Efficient and reliable with large amounts of hot water

The DHP-H uses innovative technology that allows it to operate at a high annual efficiency. Converting energy from the ground, bedrock or water, the DHP-H heats your home and produces domestic hot water. The operational efficiency can cut both your heating costs and carbon emissions significantly.

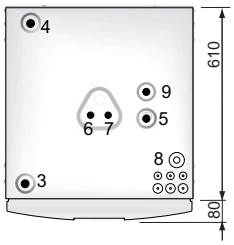
The integrated hot water tank incorporates our patented TWS* technology, producing hot water faster than traditional alternatives can allow. This means domestic hot water is never assisted by an immersion heater.

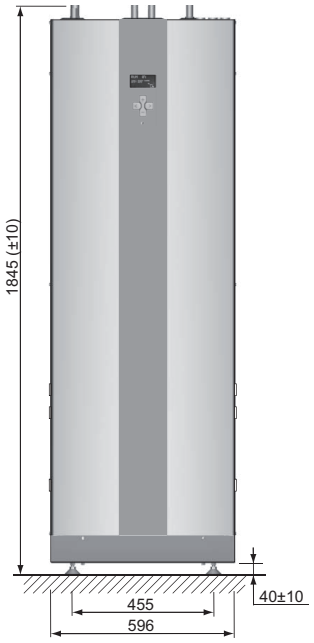
The DHP-H operates at a very low sound level and it can easily be adapted to produce cost effective cooling. There is an option to control and monitor DHP-H via the internet. The control system, although highly advanced, is both intuitive and user friendly.

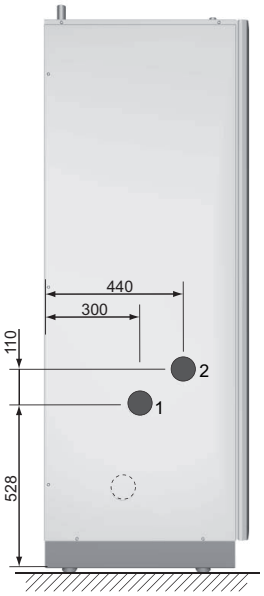
www.heatpumps.danfoss.co.uk

Connection heat pump

1. Brine in, 28 Cu
2. Brine out, 28 Cu
3. Heating system supply line, 22 Cu: 6-10 kW, 28 Cu: 12-16 kW
4. Heating system return line, 22 Cu: 6-10 kW, 28 Cu: 12-16 kW
5. Connection for bleed valve, 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			***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	3.0	3.2	4.2	5.0	7.2
	Rated power, circulation pumps	kW	0.2	0.2	0.5	0.5	0.6
	Auxiliary heater, 3 steps	kW	3/6/9	3/6/9	3/6/9	3/6/9	3/6/9
	Start current[1]	A	9	10	12	14	20
	Fuse	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	3.2	3.6	4.5	5.5	**
	Rated power, circulation pumps	kW	0.2	0.2	0.5	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[1]	A	22	24	26	28	**
	Fuse	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	60/20	60/20	60/20	60/20	60/20
Water volume	Water heater	l	180	180	180	180	180
Anti freeze media[7]			glycol + water solution with freezing point -17 ±2 °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 level[8]		dB(A)	47	44	46	49	57

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.

*) TWS - Tap Water Stratification, our patented technology developed to ensure that the stored heat is always used optimally.

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) Always check local rules and regulations before using antifreeze.
8) Sound power level measured according to EN ISO 3741 at BOW45 (EN 12102).
**) Not available in this version.

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