

DHP-L ground source heat pump with DWH water heater

Reliable and efficient heat source and advanced domestic hot water storage

The DHP-L uses innovative technology that allows it to operate at a high annual efficiency. Extracting energy from the ground, bedrock or water, the DHP-L heats your home whilst producing domestic hot water. The operational efficiency means you can cut your carbon emissions significantly.

The DHP-L is the same as the DHP-H, though does not have an integrated hot water tank which reduces its height, thus ideal for properties with low ceilings or wanting a heating only system. When connected to the

DWH integrated hot water tank, the incorporated TWS* technology produces hot water faster than traditional alternatives can allow.

The DHP-L operates at a very low sound level and it can be easily adapted to produce cost effective cooling. There is an option to control and monitor the DHP-L via the internet.

The control system, although highly advanced, is both intuitive and user friendly.

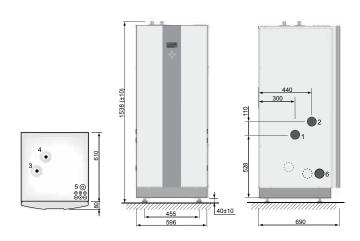




Connection heat pump

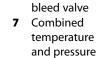
The brine lines can be connected on either the left or right-hand sides of the heat pump.

- Brine in, 28 Cu
- 2 Brine out, 28 Cu
- Heating system supply line, 22 Cu: 6-10 kW, 28 Cu: 12-16 kW
- Heating system return line, 22 Cu: 6-10 kW, 28 Cu: 12-16 kW
- Lead-in for supply, sensor and communication cables
- Return line from water heater

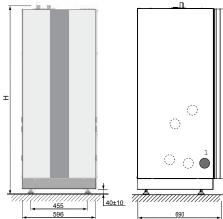


Connection water heater

- Return line to heat pump 1
- 2 Hot water
- 3 Cold water
- 4 Supply line from heat pump
- 5 Electric lead-in 6 Connection for







DWH			200	300
Volume	Sec/Prim	I	180/7.5	286/10
Design pressure	Sec/Prim	MPa	1.0/0.3	1.0/0.3
Test pressure	Sec/Prim	MPa	1.43/0.43	1.43/0.43
Weight empty		kg	141	147
Weight filled		kg	321	433
Height	Н	mm	1538	1835

DHP-L			6	8	10	12	16	
Refrigerant	Туре		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	Α	9	10	12	14	20	
	Fuse	Α	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	Α	22	24	26	28	**	
	Fuse	Α	25 ⁴ /32 ⁵ /40 ⁶	25 ⁴ /32 ⁵ /40 ⁶	324/405/506	324/405/506	**	
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	
Anti freeze media ⁷			glycol + water solution with freezing point -17 ±2 °C					
Dimensions LxWxH		mm	690x596x1538	690x596x1538	690x596x1538	690x596x1538	690x596x1538	
Weight empty	<u> </u>	kg	145	150	155	165	175	
Sound power level ⁸		dB(A)	45	44	47	48	50	

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.

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^{*)} 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).

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).

Always check local rules and regulations before using antifreeze.
Sound power level measured according to EN ISO 3741 at BOW45 (EN 12102).

^{**)} Not available in this version.