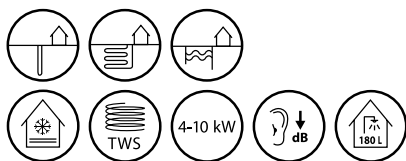


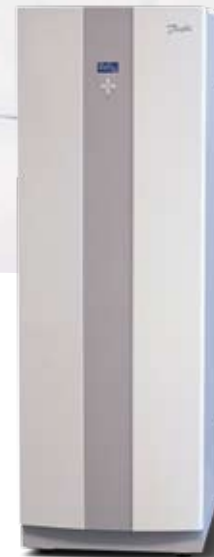


## Danfoss Heat Pump DHP-C

Perfect climate  
throughout the year.



DANFOSS HEAT PUMPS



Danfoss DHP-C 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.

DHP-C provides heating in the winter, cooling in the summer and hot water throughout the year. If the outdoor or indoor temperatures exceed a set value, the heat pump automatically switches from heating to cooling operation.

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-C operates at a low sound level and it can be controlled and monitored via the Internet. The controller is advanced but very user friendly.

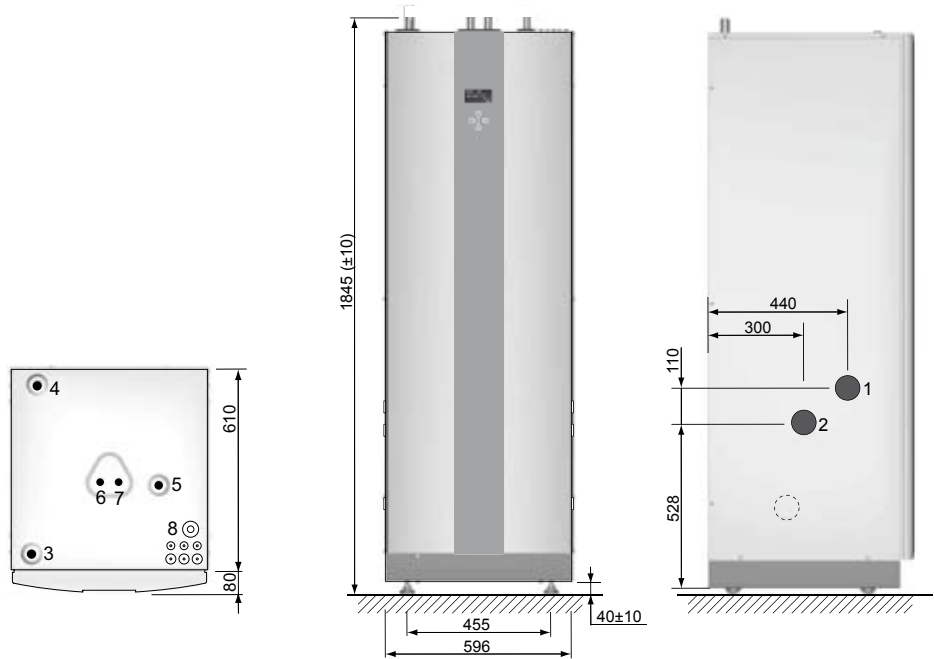
\* Tap Water Stratificator, our patented technology developed to stratify hot water in a tank to ensure that heat is used optimally.

# DANFOSS DHP-C

## Connection

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

- 1 Brine in, 28 Cu
- 2 Brine out, 28 Cu
- 3 Supply line heating system, 22 Cu
- 4 Return line heating system, 22 Cu
- 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



DHP-C			6	8	10	4H	5H	7H
<b>Refrigerant</b>	Type		R407C	R407C	R407C	R134a	R134a	R134a
	Amount	kg	1.20	1.30	1.45	0.90	1.00	1.10
<b>Compressor</b>	Type		Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
<b>Electrical data 3-N~50Hz</b>	Main supply	Volt	400	400	400	400	400	400
	Rated power, compressor	kW	2.0	2.3	3.6	2.0	2.3	3.6
	Rated power, circulation pumps	kW	0.2	0.2	0.4	0.2	0.2	0.3
	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 <sup>1</sup>	A	12	10	18	12	10	18
	Circuit breaker	A	10 <sup>4</sup> /16 <sup>5</sup> /20 <sup>6</sup>	16 <sup>4</sup> /16 <sup>5</sup> /20 <sup>6</sup>	16 <sup>4</sup> /16 <sup>5</sup> /20 <sup>6</sup>	10 <sup>4</sup> /16 <sup>5</sup> /20 <sup>6</sup>	16 <sup>4</sup> /16 <sup>5</sup> /20 <sup>6</sup>	16 <sup>4</sup> /16 <sup>5</sup> /20 <sup>6</sup>
<b>Electrical data 1-N~50Hz</b>	Main supply	Volt	*	*	*	*	*	*
	Rated power, compressor	kW	*	*	*	*	*	*
	Rated power, circulation pumps	kW	*	*	*	*	*	*
	Auxillary heater, 3 steps	kW	*	*	*	*	*	*
	Start current	A	*	*	*	*	*	*
	Circuit breaker	A	*	*	*	*	*	*
<b>Performance</b>	COP <sup>2</sup>		4.74	4.88	4.84	-	-	-
	COP <sup>3</sup>		4.04	4.34	4.24	2.70 <sup>9</sup>	2.90 <sup>9</sup>	2.90 <sup>9</sup>
	Heating capacity <sup>3</sup>	kW	5.33	7.51	9.40	3.20 <sup>9</sup>	4.50 <sup>9</sup>	5.50 <sup>9</sup>
	Power input <sup>2</sup>	kW	1.3	1.7	2.2	-	-	-
<b>Max/min temperature</b>	Cooling circuit	°C	20/-10	20/-10	20/-10	20/-10	20/-10	20/-10
	Heating circuit	°C	55/20	55/20	55/20	65/20	65/20	65/20
<b>Water volume</b>	Water heater	l	180	180	180	180	180	180
	Condensor	l	1.6	1.9	2.1	1.6	1.9	2.1
	Evaporator	l	0.7	1.2	1.6	0.7	1.2	1.6
	De-superheater	l	*	*	*	*	*	*
<b>Anti freeze media</b>			Ethylene glycol/ Ethanol	Ethylene glycol/ Ethanol	Ethylene glycol/ Ethanol	Ethylene glycol/ Ethanol	Ethylene glycol/ Ethanol	Ethylene glycol/ Ethanol
<b>Dimensions LxWxH</b>	mm		690x596x1845	690x596x1845	690x596x1845	690x596x1845	690x596x1845	690x596x1845
<b>Weight empty</b>	kg		210	215	225	210	215	225
<b>Weight filled</b>	kg		390	395	405	390	395	405
<b>Sound power level<sup>8</sup></b>	dB(A)		47.3	43.7	45.6	47.3	43.7	45.6

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).

9) At B0W45 according to EN 14511 (including circulation pumps).

\*) Not available in this version.