

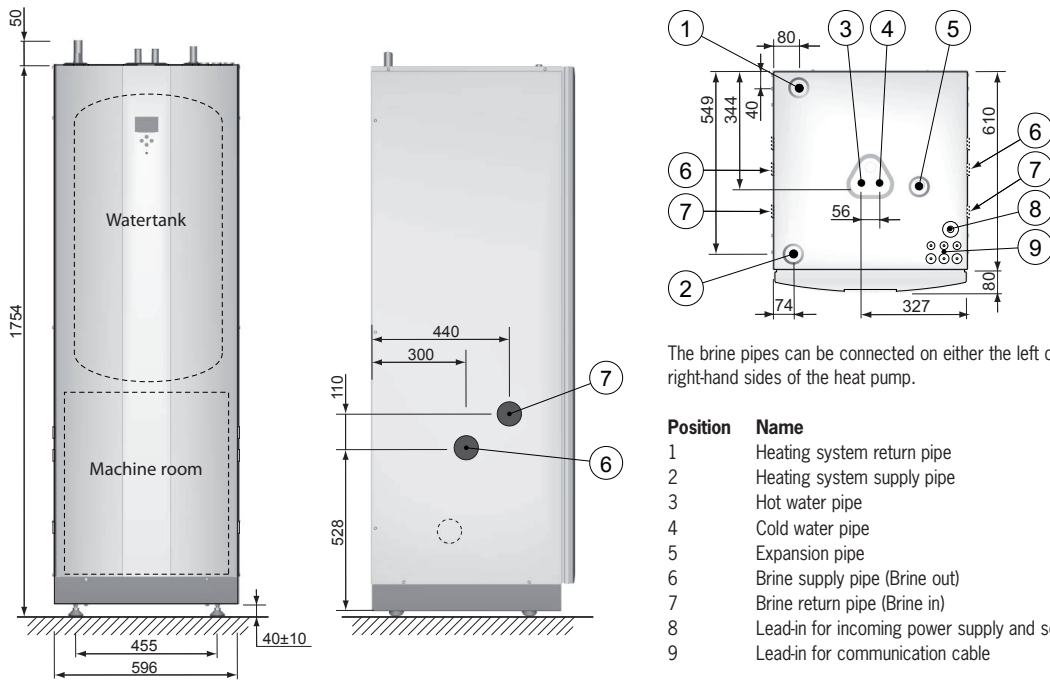
## Danfoss-Heat Pump DHP-C

Danfoss DHP-C –  
Perfect climate throughout the  
year

DHP-C is an economical and reliable heat pump for the optimal climate in your home. It generates heat in the winter, cools pleasantly in the summer and produces hot water throughout the year. Cooling is efficiently performed using an additional heat exchanger, without activating the heat pump.

DHP-C is available with ratings of 4 to 10 kW. Among other things a 180 l stainless steel hot-water tank, electronic additional heating and a passive cooling function are built into the unit: If the outdoor or indoor temperatures exceed a set value, then the heat pump automatically switches from heating to cooling operation.

# DANFOSS HEAT PUMP DHP-C



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

Position	Name
1	Heating system return pipe
2	Heating system supply pipe
3	Hot water pipe
4	Cold water pipe
5	Expansion pipe
6	Brine supply pipe (Brine out)
7	Brine return pipe (Brine in)
8	Lead-in for incoming power supply and sensors
9	Lead-in for communication cable

Heat pump, DHP-C, size			-4H	-5H	-6	-7H	-8	-10
Refrigerant:	- Type		R134a	R134a	R407C	R134a	R407C	R407C
	- Amount	kg	0.9	1.0	1.1	1.1	1.3	1.4
	- Test pressure	MPa	3.2	3.2	3.2	3.2	3.2	3.2
	- Safety switch	MPa	2.45	2.45	3.1	2.45	3.1	3.1
Compressor, Scroll	- Type		Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
El.data 3-N	Rated power comp.	kW	2,7	2,0	2,0	2,3	2,3	3,6
	Rated power + Aux.	kW	5.7 <sup>2</sup> /8.7 <sup>3</sup> /11.0 <sup>4</sup>	5.0 <sup>2</sup> /8.0 <sup>3</sup> /11.0 <sup>4</sup>	5.0 <sup>2</sup> /8.0 <sup>3</sup> /11.0 <sup>4</sup>	5.3 <sup>2</sup> /8.3 <sup>3</sup> /11.3 <sup>4</sup>	5.3 <sup>2</sup> /8.3 <sup>3</sup> /11.3 <sup>4</sup>	6.6 <sup>2</sup> /9.6 <sup>3</sup> /12.6 <sup>4</sup>
	Mains supply	Volt	400V 3-N	400V 3-N	400V 3-N	400V 3-N	400V 3-N	400V 3-N
	Auxiliary heater	kW	3/6/9	3/6/9	3/6/9	3/6/9	3/6/9	3/6/9
	Startcurrent	A	36	14	14	29	29	29
	Circuit breaker	A	1x16A 10 <sup>2</sup> /10 <sup>3</sup> /16 <sup>4</sup>	10 <sup>2</sup> /16 <sup>3</sup> /20 <sup>4</sup>	10 <sup>2</sup> /16 <sup>3</sup> /20 <sup>4</sup>	10/16 <sup>3</sup> /20 <sup>4</sup>	10 <sup>2</sup> /16 <sup>3</sup> /20 <sup>4</sup>	16 <sup>2</sup> /16 <sup>3</sup> /20 <sup>4</sup>
El.data 1-N	Rated power comp.	kW	2,7	3,3	3,3	4,2	4,2	5,4
	Rated power + Aux.	kW	4.2 <sup>2</sup> /5.7 <sup>3</sup> /7.2 <sup>4</sup>	4.8 <sup>2</sup> /6.3 <sup>3</sup> /7.8 <sup>4</sup>	4.8 <sup>2</sup> /6.3 <sup>3</sup> /7.8 <sup>4</sup>	5.7 <sup>2</sup> /7.2 <sup>3</sup> /8.7 <sup>4</sup>	5.7 <sup>2</sup> /7.2 <sup>3</sup> /8.7 <sup>4</sup>	6.9 <sup>2</sup> /8.4 <sup>3</sup> /9.9 <sup>4</sup>
	Mains supply	Volt	230V 1-N	230V 1-N	230V 1-N	230V 1-N	230V 1-N	230V 1-N
	Auxiliary heater	kW	1.5/3/4.5	1.5/3/4.5	1.5/3/4.5	1.5/3/4.5	1.5/3/4.5	1.5/3/4.5
	Startcurrent	A	36	58	58	76	76	97
	Circuit breaker	A	1x16A 10 <sup>2</sup> /10 <sup>3</sup> /16 <sup>4</sup>	20 <sup>2</sup> /25 <sup>3</sup> /32 <sup>4</sup>	20 <sup>2</sup> /25 <sup>3</sup> /32 <sup>4</sup>	25 <sup>2</sup> /32 <sup>3</sup> /40 <sup>4</sup>	25 <sup>2</sup> /32 <sup>3</sup> /40 <sup>4</sup>	32 <sup>2</sup> /40 <sup>3</sup> /50 <sup>4</sup>
Performance	- Output capacity <sup>1)</sup>	kW	3.2	4.5	4.9	5.5	7.2	8.9
	- Heat factor <sup>1)</sup>	COP	2.7	2.9	3.0	2.9	3.2	3.3
Nominal flow: <sup>6)</sup>	- Cooling medium	l/s	0.2	0.3	0.3	0.5	0.5	0.6
	- Heat medium	l/s	0.1	0.1	0.1	0.2	0.2	0.2
External available pressure <sup>5)</sup>	- Cooling medium <sup>5)</sup>	kPa	49	45	31	54	33	67
	- Heat medium <sup>5)</sup>	kPa	61	60	43	58	39	34
Min/max temperature	- Cooling medium	°C	20/-10	20/-10	20/-10	20/-10	20/-10	20/-10
	- Heat medium	°C	55/20	55/20	55/20	55/20	55/20	55/20
Pressure switches	Low pressure	MPa	0.03	0.03	0.08	0.03	0.08	0.08
	High pressure	MPa	1.8	1.8	2.65/2.85	1.8	2.65/2.85	2.65/2.85
Water Heater Volume		l	180	180	180	180	180	180

<sup>1)</sup> At BOW45 according to EN14511 (including circulation pumps).

<sup>2)</sup> Heat pump with 3 kW auxiliary heater. (1-N 1.5 kW)

<sup>3)</sup> Heat pump with 6 kW auxiliary heater. (1-N 3 kW)

<sup>4)</sup> Heat pump with 9 kW auxiliary heater. (1-N 4.5 kW)

<sup>5)</sup> Pressure drop that must not be exceeded outside the heat pump without the nominal flow being reduced. For the brine water circuit these values require a water hose of Ø 40 x 2.4.

<sup>6)</sup> Nominal flow: Warm side Δ10K Cold side Δ3K.