



Danfoss Heat Pump DHP-L

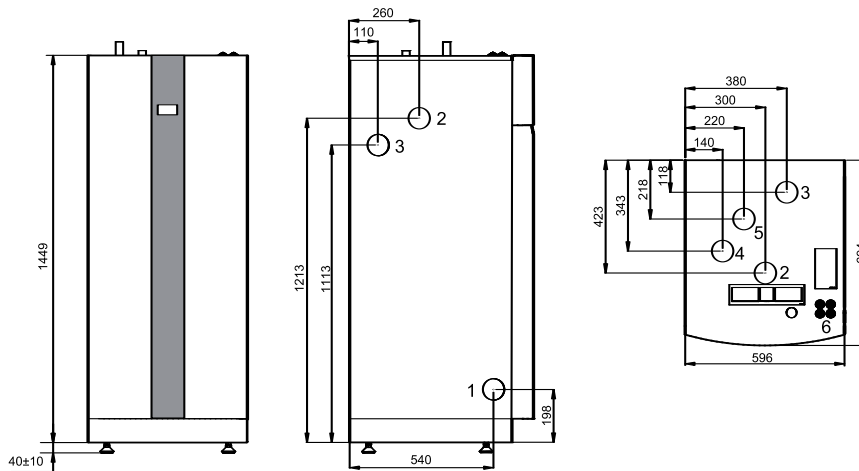
Danfoss DHP-L - the advanced heat pump solution provides flexibility and quality

If you have a large hot water demand, Danfoss DHP-L is the perfect choice, as it is designed to be combined with a separate hot water tank. Separate tanks are available in the range of 200, 300, 500 or 1000 litres.

Danfoss DHP-L is available with outputs from 6 to 16 kW (up to 25 kW incl. electric element).

Thanks to the use of latest technologies, Danfoss DHP-L has many convenient features. The advanced scroll compressor, specially developed for heat pumps, is one of them. The effective heat exchanger and sub-cooler that help to extract additional heat are two other examples.

DANFOSS HEAT PUMP DHP-L



Heat pump DHP-L, size			6	8	10	12	16
Refrigerant:							
	- Type		R407C	R407C	R407C	R407C	R407C
	- Amount	kg	1.1	1.3	1.4	1.6	1.7
	- Test pressure	MPa	3.2	3.2	3.2	3.2	3.2
	- Safety switch	MPa	3.1	3.1	3.1	3.1	3.1
Compressor, Scroll							
	- Type		Scroll	Scroll	Scroll	Scroll	Scroll
El.data 3-N							
	Rated power comp.	kW	2.0	2.3	3.6	4.4	5.6
	Rated power + Aux.	kW	5.0 ² /8.0 ³ /11.0 ⁴	5.3 ² /8.3 ³ /11.3 ⁴	6.6 ² /9.6 ³ /12.6 ⁴	7.4 ² /10.4 ³ /13.4 ⁴	8.6 ² /11.6 ³ /14.6 ⁴
	Mains supply	Volt	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
	Startcurrent	A	14	29	29	32	45
	Circuit breaker	A	10 ² /16 ³ /20 ⁴	10 ² /16 ³ /20 ⁴	16 ² /16 ³ /20 ⁴	16 ² /20 ³ /25 ⁴	20 ² /20 ³ /25 ⁴
El.data 1-N							
	Rated power comp.	kW	3.3	4.2	5.4	5.7	*
	Rated power + Aux.	kW	4.8 ² /6.3 ³ /7.8 ⁴	5.7 ² /7.2 ³ /8.7 ⁴	6.9 ² /8.4 ³ /9.9 ⁴	7.2 ² /8.7 ³ /10.2 ⁴	*
	Mains supply	Volt	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	*
	Startcurrent	A	58	76	97	108	*
	Circuit breaker	A	20 ² /25 ³ /32 ⁴	25 ² /32 ³ /40 ⁴	32 ² /40 ³ /50 ⁴	32 ² /40 ³ /50 ⁴	*
Performance							
	- Output capacity ¹⁾	kW	4.9	7.2	8.9	10.7	15.2
	- Heat factor ¹⁾	COP	3.0	3.2	3.3	3.2	3.2
Nominal flow: ⁶⁾							
	- Cooling medium	l/s	0.3	0.5	0.6	0.6	0.9
	- Heat medium	l/s	0.1	0.2	0.2	0.3	0.4
External available pressure ⁵⁾							
	- Cooling medium ⁵⁾	kPa	31	33	67	64	56
	- Heat medium ⁵⁾	kPa	43	39	34	48	40
Min/max temperature							
	- Cooling medium	°C	20/-10	20/-10	20/-10	20/-10	20/-10
	- Heat medium	°C	55/20	55/20	55/20	55/20	55/20
Pressure switches							
	Low pressure	MPa	0.08	0.08	0.08	0.08	0.08
	High pressure	MPa	2.65/2.85	2.65/2.85	2.65/2.85	2.65/2.85	2.65/2.85
Footnotes							
¹⁾ At B0W45 according to EN14511 (including circulation pumps).			⁵⁾ Pressure drop that must not be exceeded outside the heat pump -without the nominal flow being reduced.				
²⁾ Heat pump with 3 kW auxiliary heater. (1-N 1,5 kW)			For the brine water circuit these values require a water hose of Ø 40 x 2.4.				
³⁾ Heat pump with 6 kW auxiliary heater. (1-N 3 kW)			⁶⁾ Nominal flow: Warm side Δ10K Cold side Δ3K				
⁴⁾ Heat pump with 9 kW auxiliary heater. (1-N 4,5 kW)			⁷⁾ Not available in 1-N model				

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