



DHP-AT air source heat pump

A flexible and compact heat pump that is simple to install

The DHP-AT air source heat pump provides heating, hot water and cooling for a wide range of domestic properties.

Operating at high performance levels, the DHP-AT works down to temperatures as low as -15°C .

Accumulating 8 decades of knowledge and experience, the DHP-AT was developed to support

various applications, creating a fully flexible air source heat pump.

The DHP-AT consists of 2 major units: the outdoor unit containing the heat pump, and the indoor control panel. Limiting the pipe and cabling means quicker and simplified installation for you, and a compact heating system for your customer.



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Major units

An outdoor unit and an internal control panel are the only major components, and the connections are limited for a quick and simple installation



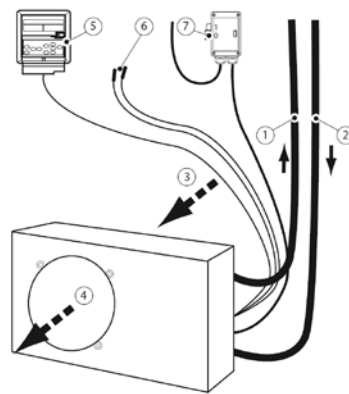
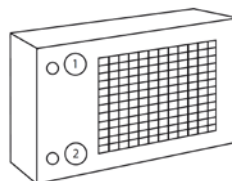
Technical specification Danfoss DHP-AT

DHP-AT delivery set

Heat pump
Control unit with connection cord
Document set
Flexibel hose for drainage of condensate water
Buffer tank sensor
Hot water tank sensor

Connection heat pump

	DHP-AT 6	DHP-AT 8
1 Supply line pipe (red label)	DN 20	DN 25
2 Return line pipe (blue label)	DN 20	DN 25
3 Air inlet		
4 Air outlet		
5 Operator panel		
6 Hot water and buffer tank sensors		
7 Power supply		



DHP-AT

			6kW	8kW	
Refrigerant	Type		R410A	R410A	
	Amount	kg	2.2	2.5	
	Test pressurization	MPa	3.1	3.1	
	Design pressure	MPa	4.2	4.2	
Compressor	Type		Rotary	Rotary	
	Oil		HAF68D1/68HES-H	HAF68D1/68HES-H	
Electrical data 1-N 50Hz heat pump	Mains power supply	V	230	230	
	Rated power, compressor	kW	1.7	2.5	
	Rated power, fan	kW	0.044	0.044	
	Rated power, internal electrical heater	kW	3	3	
	Start current, heat pump ¹	A	30	28	
	Fuse	A	25	25	
	Performance (new heat pump with clean heat exchanger)	COP ²		3.0	2.9
Heating capacity ²		kW	4.0	5.8	
Power input ²		kW	1.4	2.0	
COP ³			4.0	4.0	
Heating capacity ³		kW	5.7	8.3	
Power input ³		kW	1.4	2.0	
COP ⁴			4.3	4.3	
Heating capacity ⁴		kW	6.0	8.5	
Power input ⁴		kW	1.4	2.0	
EER ⁴			2.7	2.6	
Nominal flow ⁶	Heating circuit	l/s	0.142	0.205	
	Ambient air operating range (outdoor unit)		°C	-15 ~ +43	-15 ~ +43
			°C	50	50
Max temperatures ⁷	Heating circuit	°C	55	55	
	Hot water heating	°C	55	55	
Fan speed		rpm	700	700	
Sound level	Sound power at normal operation ⁸	dB(A)	65.3	64.5	
	Sound pressure at normal operation, 1 meter ⁹	dB(A)	53.7	52.8	
Heat pump (outdoor unit)	Dimensions L x W x H	mm	1028x460x660	1028x460x760	
	Weight (empty)	kg	90	101	
	Pipe connections (supply line and return line)		DN 20	DN 25	
Control unit (indoor unit)	Dimensions L x W x H	mm	120x20x120	120x20x120	
	Weight	kg	0.2	0.2	
Installation distance restrictions	Heat pump, minimum free distance from wall directly behind evaporator inlet	cm	30	30	
	Maximum distance between outdoor and indoor unit	m	10	10	

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 operating point A2/W35 in accordance with EN14511, including fan, defrost, and correction for external circulation pump
- 3) At operating point A7/W35 in accordance with EN14511, including fan, defrost, and correction for external circulation pump
- 4) At operating point A7/W35 Δ10K hot side in accordance with EN255
- 5) At operating point A35/W7 according to EN14511

- 6) Nominal flow for heat circuit Δ10K between supply line and return line
- 7) Heat pump operation only, at 0 °C outdoor temperature
- 8) Outdoor unit, sound power level measured according to EN ISO 3741 at A7/W35 and frost-free evaporator
- 9) Outdoor unit, sound pressure level measured according to ISO 11203, cuboid-shaped measuring surface

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