

ES V7-S Air/Water heat pumps



Nordic Plus V7-S – 6, 9, 11 and 13 kW with 250 liter water tank

Economic and effective air-to-water heat pump, designed for a Nordic climate

- User-friendly touch display
- Built in Wi-Fi enables controlling and monitoring of the heat pump from computer or Smart Device
- Two different temperature zone setting
- Automatic restart in case of power failure
- 6, 9, 11 and 13kW heating capacity
- Operates in conditions down to -25°C
- Low investment – short payback time
- Nano-coated evaporator



New user-friendly touch screen interface

The interface enables quick adjustment of all temperature settings directly from the front page. The software also supports variable temperature settings (curve) for both heating and cooling.



A+++



5 years

COMPRESSOR
WARRANTY



ES ENERGY SAVE

ES V7-S Air/Water heat pumps



NPT V7-S – 6, 9, 11 and 13 kW, split

Converts energy from the outdoor air to heating, cooling and domestic hot water

By utilising the energy from outdoor air, you can reduce your energy bills in an eco-friendly way, and at the same time creating the perfect level of comfort for your home. NPT V7 is designed to replace an existing heat source or for new installations. The indoor unit has a stylish design to fit into a modern home. All connections are easily accessible at the top of the unit.

Designed to provide maximum energy savings and quiet operation

By using components from leading suppliers (see table below) and smart control, great energy savings and quiet operation are made possible. All NPT-V7-S series are rated A++/+++.

Designed for a Nordic climate

NPT V7-S is a split system which means that the heat exchange with the buildings heating system takes place indoors and only the refrigerant circulates outdoors. This is an

effective and reliable solution in a cold climate.

The automatic and self-learning defrost function, combined with the nano-coated evaporator, reduces defrosting time to a minimum and increases the efficiency.

Control your heating system

NPT V7-S can be controlled locally or remotely thru Computer or Smart Device. Make all the necessary settings for an efficient, trouble-free operation with the new user-friendly touch display. Even when you are not at home you have full control of your heating system thru your Computer or Smart Device.

Two zone heating and cooling curves

NPT V7-S uses a variable water temperature setting (heat curve) to provide a constant indoor temperature, regardless of the outdoor temperature. When the outdoor temperature drops, the heat pump raises the temperature of the water to the heating system and vice versa when the outdoor temperature rises.

This functionality is also available for cooling operation. Different heating systems require different temperatures, e.g. floor heating and

radiators. The NPT V7-S have the possibility to set two separate heating curves if you have combination of high and low temperature heating system or different temperature zones in your home. All the necessary temperature sensors are included in the package. The heating curve can operate up to 75 degrees set temperature (requires additional high temperature source).

250 liter hot water tank

The integrated tank for domestic hot water heating is 250 liter and heated by the heat pump. If the temperature drops, the heat pump changes the operating status and starts the production of hot water. If additional power is required, the integrated electric heaters will be used as back-up.

Expansion vessel and back up

NPT V7-S has 12 liters built in expansion vessel and built in electric heater. The electric heater is controlled by the heat pump and kicks in automatically if heat pump capacity is too small in the coldest days. The backup signal can also be used to control other heating sources, like gas boilers, oil burners, etc.

			NPT6-V7-S	NPT9-V7-S	NPT11-V7-S	NPT13-V7-S	
Min/max heating capacity (1)			kW	2,19 / 6,21	4,33 / 10,10	4,67 / 11,5	4,2 / 12,6
El. Heating power input min/max (1)			W	540 / 1530	975 / 2153	915 / 3029	926 / 3072
C.O.P min/max (1)			W/W	4,05 / 5,87	4,02 / 4,65	3,82 / 5,05	3,89 / 4,77
Min/max heating capacity (2)			kW	2,05 / 5,8	4,19 / 9,53	4,14 / 10,7	3,76 / 11,5
Heating power input min/max (2)			W	640 / 1810	1230 / 2990	1218 / 3624	1267 / 3723
C.O.P min/max (2)			W/W	3,22 / 4,12	3,12 / 3,55	2,95 / 3,56	2,97 / 3,28
SCOP - Average climate, low temperature			W	4,47	3,99	3,92	3,90
Energy class				A+++	A++	A++	A++
Defrost upon demand				Yes	Yes	Yes	Yes
Heating cable for defrosting				Yes	Yes	Yes	Yes
Compressor pre-heat				Yes	Yes	Yes	Yes
Electronic expansion valve				Yes	Yes	Yes	Yes
ErP approved circulation pump				Yes, Grundfos	Yes, Grundfos	Yes, Grundfos	Yes, Grundfos
Compressor				Mitsubishi	Panasonic		
Fan	Manufacturer			Nidec			
	Quantity	pcs	1	1	1	2	
	Airflow	m³/h	2700	3000	3100	4200	
	Rated power	W	65	76	76	150	
Sound pressure level	Indoor/outdoor		dB (A)	47 / 57	43 / 58	45 / 58	46 / 59
Plate heat exchanger	Manufacturer			SWEP			
	Water press. drop	kPa	20	23	23	26	
	Piping connection	Inch	G1"				
Minimum water flow			m³/h	0,9	1,4	1,4	2,2
Residual current device and overvoltage protection				Required			
Power supply, grounded		V / Hz / A	400V/3N/3PH/50Hz/16A/C or 230V/3PH/50Hz/25A/C				
Electric heater, domestic hot water			kW	0,5	0,5	0,5	0,5
Electric heater, heating system (emergency operation)			kW	2x3 (9)	2x3 (9)	2x3 (9)	2x3 (9)
Refrigerant				R410a			
Dimensions (W x H x D)	Outdoor unit		mm	920 x 730 X 353	947 x 755 x 355	1057 x 765 x 414	1154 x 1195 x 460
	Indoor unit		mm	600 x 1780 x 680			
Net weight	Outdoor unit		kg	52,6	67,5	70	118
	Indoor unit		kg	125	130	130	125
Article number indoor/outdoor				120271 / 120273	120275 / 120277	120275 / 120278	120280 / 120282

(1) Heating condition: water inlet/outlet temperature: 30 °C/35°C, Ambient temperature: DB 7 °C /WB 6 °C

(2) Heating condition: water inlet/outlet temperature: 40°C/45°C, Ambient temperature: DB 7 °C /WB 6 °C

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