

# ES V7-S Air/Water heat pumps



## Nordic Plus V7-S – 6, 9, 11 and 13 kW with 250 liter enamelled 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 13-kW heating capacity
- Operates in conditions down to  $-25^{\circ}\text{C}$
- Enameled hot water tank
- 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



## NPET 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. NPET V7-S 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 NPET-V7-S series are rated A++/+++.

### Designed for a Nordic climate

NPET 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

NPET 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

NPET 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 NPET 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 enamelled hot water tank

The integrated enamelled 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.

### Back-up

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.

			NPET6-V7-S	NPET9-V7-S	NPET11-V7-S	NPET13-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 power level	Indoor / outdoor	dB (A)	47 / 57	43 / 58	45 / 58	46 / 59
Plate heat exchanger	Manufacturer		SWEP	GEA	GEA	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	Heat pump; El. flow heater; DHW el. heater		1p/10A/C; 1p/16A/C; 1p/10A/C	1p/16A/C; 2x 1p/16A/C; 1p/10A/C		
Electric heater, domestic hot water		kW	1,5	1,5	1,5	1,5
Electric heater, heating system (emergency operation)		kW	3	2x3 (6)	2x3 (6)	2x3 (6)
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 1862 X 750			
Net weight	Outdoor unit	kg	52,6	67,5	70	118
	Indoor unit	kg	186	190		
Article number indoor / outdoor			120272 / 120273	120276 / 120277	120276 / 120278	120281 / 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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