ES V7 Air/Water heat pumps

Nordic Plus V7 – 6, 9, 11 and 13 kW for hybrid systems

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.

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

- User-friendly touch display
- Built in WiFi, enables control and monitoring the heat pump from computer or mobile phone
- Two different temperature zone setting
- Automatic restart in case of a power failure
- 6, 9, 11 and 13 kW heating power
- Operates in conditions down to –30°C
- Low investment – short payback time
- Nano-coated evaporator
- Dockable solution for hybrid systems

ES ENERGY SAVE

ES V7 Air/Water heat pumps

NPH V7 – 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. NPH V7 is designed to replace or supplement an existing heat source or for new installations. The indoor unit has a stylish design to fit into a modern home. All refrigerant and electric connections on upper side, and water connections on the underside.

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 NPH-V7 series are rated A++/+++.

Designed for a Nordic climate

NPH V7 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

NPH V7 can be controlled locally or remotely thru smartphone or computer. 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 smartphone or computer.

Two zone heating and cooling curves

NPH V7 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, eg floor heating and radiators. The NPH V7 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. The heating curve can operate up to 75 degrees set temperature (requires additional high temperature source).

Upgrade your system with NPH V7

All, correct dimensioned, heat pump systems need back-up during the coldest days. NPH V7 is designed to operate in hybrid systems, together with all kinds of heating systems. If your existing boiler works – keep it as back-up.

			NPH 6kW–V7	NPH 9kW–V7	NPH 11kW–V7	NPH 13kW–V7
Min/max heating capacity (1)		kW	2,19 / 6,21	4,33 / 10,10	4,67 / 11,5	4,2 / 12,6
EHeating power input min/max (1)		W	540 / 1530	975 / 2153	915 / 3029	926 / 3072
COP 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
COP min/max (2)		W/W	3,22 / 4,12	3,12 / 3,55	2,95 / 3,56	2,97 / 3,28
SCOP - Awerage climate, low temperature		W	4,47	3,99	3,92	3,9
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)	35 / 52	35 / 56	30 / 56	30 / 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/3PH/50Hz/16A/C or 230V/3PH/50Hz/25A/C			
Refrigerant			R410a			
Dimensions (L x D x H)	Outdoor unit	mm	934 x 354 x 753		1044 x 414 x 763	1124 x 460 x 1195
	Indoor unit	mm	380 x 273 x 580			
Net weight	Outdoor unit	kg	62,5	62,5	65	112
	Indoor unit	kg	45			
Articel number package			130113	130114	130115	130116
Article number indoor/outdoor			120270/120273	120274/120277	120274/120278	120279/120282

(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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