Ground Source Heat Pump NIBE™ F1245
A new generation of heat pumps

Features of NIBE™ F1245

Extraordinarily high efficiency (COP)

Extremely installer-friendly

Modular system for service friendliness

Multicolour display with user instructions and multilingual support

Remote control via GSM (accessories)

Scheduling (indoor comfort, hot water and ventilation)

Universal connection interface (1xUSB-port)

Integrated water heater with environmentally friendly cellular plastic insulation for minimal heat loss

Remarkably low sound level

Low energy DC circulation pumps (A)

Elegant, timeless and international design

New improved generation:

- **Higher efficiency**
- **Speed controlled circulation pumps for optimized heating and hot water charging**
- **Improved installer friendliness**
- **Master/slave compatible with up to nine pcs in cascade and in combination with NIBE F1345**
- **NIBE Uplink compatible**

NIBE F1245

NIBE F1245 is one of a new generation of heat pumps, designed to supply your heating needs in an cost efficient, environmentally friendly way. Thanks to an integrated hot water heater, immersion heater, circulation pumps and a control system, the heat is produced safely and economically.

The heat pump can be connected to an optional low temperature heat distribution system such as radiators, convectors or underfloor heating. It is also prepared for connection to several different products and accessories e.g. extra hot water heater, free cooling, ventilation recovery, pool and other heating systems.

The NIBE F1245 is equipped with a control unit which cost effectively and safely maintains a comfortable temperature in the home. Clear information about status, operation time and all temperatures in the heat pump are shown on the large and easy-to-read display. This eliminates the need for external unit thermometers.

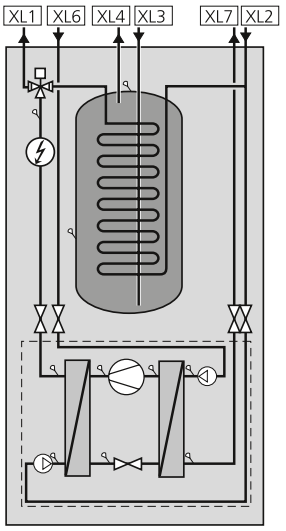
Technical specifications
NIBE™ F1245

Type		5	6	8	10	12
EN 255 (excl circulation pumps) at 10 K						
Supplied power at 0/35°C	(kW)	1.06	1.31	1.62	1.95	2.38
Delivered power at 0/35°C	(kW)	4.89	6.48	8.19	10.06	11.96
COP 0/35°C		4.62	4.94	5.05	5.15	5.01
EN 14511 at 5 K						
Supplied power at 0/35°C	(kW)	1.08	1.32	1.64	2.01	2.51
Delivered power at 0/35°C	(kW)	4.65	6.07	7.67	9.66	11.48
COP 0/35°C		4.30	4.59	4.68	4.81	4.57
Operational voltage		400V 3NAC 50 Hz				
Min fusing (fuse type C) excl immersion heater	(A)	16	16	16	16	16
Volume water heater	(litres)	appr 180				
Immersion heater, max	(kW)			9		
Max pressure in storage heater	(MPa)	1.0 (10 bar)				
Refrigerant type R 407C	(kg)	1.2	1.5	1.8	2.1	2.0
Max temperature heating medium (flow/return circuit) at 0°C brine	(°C)	70/58				
Sound power level (LwA) *	(dBA)	37	42	43	43	43
Sound pressure level (LpA)**	(dBA)	21,5	27	28	28	28
Net weight (without water)	(kg)	250	255	265	270	275
Height	(mm)	1800				
Width	(mm)	600				
Depth	(mm)	620				

*According to EN 12102 at 0/35°C
** According to EN 11203 at 0/35°C and 1 m distance

System description

NIBE F1245 consists of a heat pump, water heater, electrical module, circulation pumps and a control system. It is connected to the brine and heating medium circuits.
In the heat pump evaporator, the brine (water mixed with anti-freeze) gives off its energy to the refrigerant, which is vapourised in order to be compressed in the compressor. The refrigerant, its temperature now raised, is passed to the condenser where it releases its energy to the heating medium circuit and, if necessary, to the water heater. If there is a further need for heating/hot water than the compressor can provide an integrated immersion heater boosts the supply.



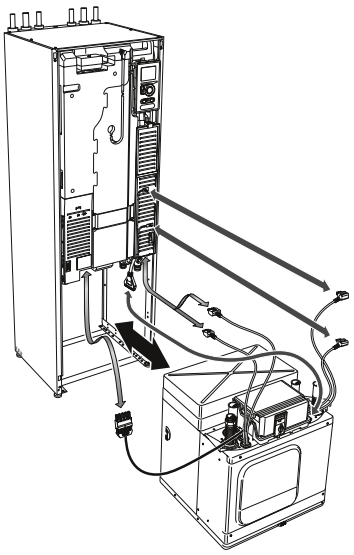
XL 1 Connection, heating medium flow
XL 2 Connection, heating medium return
XL 3 Connection, cold water
XL 4 Connection, hot water
XL 6 Connection, brine in
XL 7 Connection, brine out

Docking options

NIBE F1245 can be connected in several different ways e.g. to an extra electric hot water heater, ventilation recovery exhaust air module, free cooling, active cooling, a buffer vessel, underfloor heating, two or more heating systems, ground water system, two pools and /or solar panels.

Compressor module

The compressor module can be pulled out very easily for transport, installation and service.



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