

## Ground Source Heat Pump NIBE™ F1145

A new generation of heat pumps



### Features of NIBE™ F1145

**Extraordinarily high efficiency (SPF)**

**Extremely installer-friendly**

**Modular system for service friendliness**

**Multicolour display with user instructions and multilanguage support**

**Remote control via GSM (accessories)**

**Scheduling (indoor comfort and hot water as well as cooling and ventilation)**

**Universal connection interface (1xUSB-port)**

**Remarkably low sound level**

**Low energy DC circulation pumps (A)**

**Elegant, timeless and international design**

### NIBE F1145

The NIBE F1145 is one of a new generation of heat pumps, designed to supply your home with cost efficient and environmentally friendly heating. With an integrated immersion heater, circulation pumps and a control system, the heat production is both safe and economical.

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. hot water heater, free cooling, ventilation recovery, pool and other heating systems.

The NIBE F1145 is equipped with a control unit to maintain a comfortable indoor climate, both cost-effectively and safely. 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™ F1145

Type		5	6	8	10	12	15	17
EN 255 (excl circulation pumps) at 10 K								
Supplied power at 0/35°C	(kW)	1.09	1.28	1.66	1.98	2.47	3.27	3.75
Delivered power at 0/35°C	(kW)	4.83	6.31	8.30	9.95	11.82	15.80	17.20
COP 0/35°C		4.44	4.93	5.01	5.03	4.79	4.81	4.60
EN 14511 at 5 K								
Supplied power at 0/35°C	(kW)	1.13	1.35	1.74	2.13	2.66	3.63	4.10
Delivered power at 0/35°C	(kW)	4.65	6.10	8.01	9.64	11.42	15.40	16.90
COP 0/35°C		4.12	4.51	4.59	4.52	4.30	4.25	4.12
Rated voltage	(V)	3 x 400V + N + Pe						
Min fusing (fuse type C) excl immersion heater	(A)	10	10	10	10	10	16	16
Immersion heater, max	(kW)	9						
Refrigerant (R407C)	(kg)	1.4	1.8	2.3	2.5	2.2	2.4	2.4
Max temperatur heating medium (flow/return pipes)	(°C)	70/58						
Sound power level (LwA)*	(dB)	42	42	43	43	43	42	42
Sound pressure level**	(dB)	27	27	28	28	28	27	27
Height	(mm)	1500						
Width	(mm)	600						
Depth	(mm)	620						
Net weight	(kg)	140	145	165	170	178	191	199

\*According to EN 12102 at 0/35°C

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

### Docking options

The NIBE F1145 can be connected in several different ways e.g. to a ventilation recovery exhaust air module, free cooling, a buffer vessel, underfloor heating, hot water heater, oil/gas/wood-fuelled boiler, accumulator tank with water heater, two or more heating systems, ground water system, pool or solar panels.

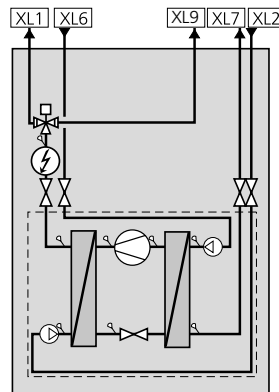
### Compressor module

The compressor module is easily pulled out for transport, installation and service.

### System description

NIBE F1145 consists of heat pump, immersion heater, circulation pumps and control system. NIBE F1145 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, of which the temperature has now been raised, is passed to the condenser where it gives off its energy to the heating medium circuit and, if necessary, to any docked water heater. If there is a further need for heating/hot water than the compressor can provide there is an integrated immersion heater.



- XL 1 Connection, heating medium flow
- XL 2 Connection, heating medium return
- XL 9 Connection, hot water
- XL 6 Connection, brine in
- XL 7 Connection, brine out

