

## Ground Source Heat Pump NIBE™ F1145

A new generation of heat pumps

NEW



### Features of NIBE™ F1145

- Extraordinarily high efficiency**
- Extremely installer-friendly**
- Multicolour TFT display with user instructions**
- Elegant, timeless and international design**
- Scheduling (indoor comfort, hot water and ventilation)**
- USB-port**
- Remarkably low sound level**
- Low energy DC circulation pumps (A-class)**

### NIBE F1145

The NIBE F1145 is one of a new generation of heat pumps, designed to supply your home with inexpensive 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	8	12	15	17
Supplied power at 0/35°C*	(kW)	1.1	1.7	2.4	3.4	3.8
Delivered power at 0/35°C*	(kW)	4.8	8.2	11.6	15.4	16.8
COP 0/35°C*		4.6	4.9	4.8	4.5	4.4
Supplied power at 0/35°C**	(kW)	1.1	1.8	2.7	3.5	3.9
Delivered power at 0/35°C**	(kW)	4.5	7.8	11.4	14.6	15.8
COP 0/35°C**		4.2	4.5	4.3	4.0	4.0
Operating voltage	(V)	230 (1-phase + zero)		400 (3-phase + zero)		
Min fusing (fuse type C)	(A)	16	10	10	16	16
Immersion heater	(kW)	9				
Refrigerant (R407C)	(kg)	1.4	2.2	2.1	2.3	2.3
Max temperatur heating medium (flow/return pipes)	(°C)	70/58				
Sound power level (LwA)	(dB)	43				
Height	(mm)	1500				
Width	(mm)	600				
Depth	(mm)	610				
Net weight	(kg)	140	165	178	191	199

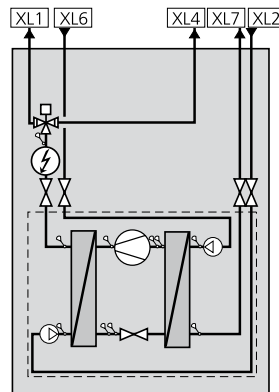
\*According to EN 255 (excl circulation pumps)

\*\*According to EN 14511

### 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.



### 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.

