

## Ground Source Heat Pump NIBE™ F1245

A new generation of heat pumps

NEW



### Features of NIBE™ F1245

- 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**
- Integrated water heater with environmentally friendly cellular plastic insulation for minimal heat loss**
- Remarkably low sound level**
- Low energy DC circulation pump (A-rated)**
- UK Building and Water Regulations Approved**
- MCS approved**
- SAP Q listed**
- Benchmark checklist**

### NIBE F1245

The NIBE F1245 is one of a new generation of heat pumps, designed to supply your heating needs in an inexpensive, 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	8	12
Supplied power at 0/35°C*	(kW)	1.1	1.7	2.4
Delivered power at 0/35°C*	(kW)	4.8	8.2	11.6
COP 0/35°C*		4.6	4.9	4.8
Supplied power at 0/35°C**	(kW)	1.1	1.8	2.7
Delivered power at 0/35°C**	(kW)	4.5	7.8	11.4
COP 0/35°C**		4.2	4.5	4.3
Operational voltage	(V)	230 (1-phase + neutral)		
Min fusing (fuse type C)	(A)	40	50	63
Volume water heater	(litres)	180		
Immersion heater	(kW)	7		
Refrigerant type R 407C	(kg)	1.4	2.3	2.2
Max temperature heating medium (flow/return circuit)	(°C)	70/58		
Sound power level (LwA)	(dB)	43		
Net weight (without water)	(kg)	305	325	335
Height	(mm)	1800		
Width	(mm)	600		
Depth	(mm)	620		

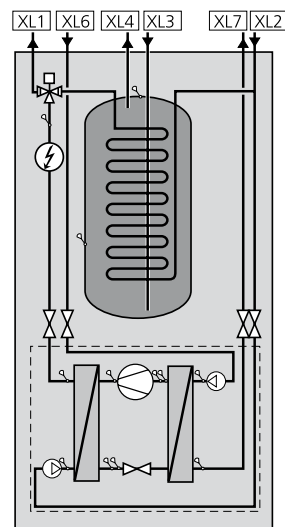
\*According to EN 255 (excl circulation pumps)

\*\*According to EN 14511

### System description

The 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 boost to 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, a buffer vessel, underfloor heating, two or more heating systems, ground water system, pool and /or solar panels.

### Compressor module

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

