

NIBE™ F1330 Ground Source heat pump for larger residential and commercial installations



Features of NIBE™ F1330

Perfect solution for larger and heat consuming buildings.

Docking possibility – up to 540 kW in cascade

High COP – provides savings and shorter payback times

High flow temperature (65°C) – means great installation flexibility

The heat pump consists of two units which contain less than 3 kg refrigerant per unit

LCD display – clear information on conditions, operation and temperature

Programmable for climate control – cost efficient solution all year, heating and cooling

The control unit offers several docking options

NIBE F1330

With its two large scroll compressors, NIBE F1330 is the ideal ground source heat pump for multi-occupancy buildings, industrial premises, churches and other large heat consuming buildings etc. The compressors collaborate and engage as necessary and give better power control, less wear and greater operational reliability.

The NIBE F1330 is a flexible product with advanced control equipment and can be adapted to several system solutions. The NIBE F1330 can give two different flow temperatures/double heat curves, for example, for a lower flow temperature in under floor loops than in radiators. The NIBE F1330 is also prepared for control of oil, gas, pellet fired or electric boilers.

NIBE F1330 is manufactured in four versions; these feature outputs of 22, 30, 40 and 60 kW.

Technical specifications

NIBE™ F1330

Type		NIBE F1330-22	NIBE F1330-30	NIBE F1330-40	NIBE F1330-60
Power consumption* (B 0 /W 35)	(kW)	4.8 (2 x 2.4)	6.8 (2 x 3.4)	9.0 (2 x 4.5)	13.8 (2 x 6.9)
Heating capacity* (B 0 /W 35)	(kW)	23.1 (2 x 11.55)	30.8 (2 x 15.4)	39.0 (2 x 19.5)	60.6 (2 x 30.3)
COP* at B0/W35		4.8	4.5	4.3	4.4
Voltage 400 V (3-phase+Zero)					
Refrigerant		R407C	R407C	R407C	R410A
Refrigerant quantity	(kg)	2 x 2.1	2 x 2.3	2 x 2.5	2 x 2.4
Max. temperature heating medium	(°C)	65/58	65/58	65/58	65/58
Height (without adjustable feet 30-50mm)	(mm)	1625	1625	1625	1625
Width	(mm)	600	600	600	600
Depth	(mm)	625	625	625	625
Net weight	(kg)	315	338	356	350

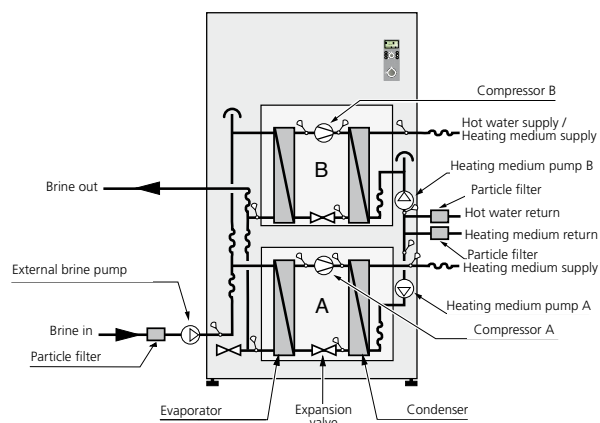
* In accordance with EN 255 for heat source entry at 0° C / hot water flow at 35° C.
The electric input for the circulation pumps is not included.

System description

The NIBE F1330 consists of two heat pump modules and a CPU unit with a display to control the heat pump and any additional heating. The NIBE F1330 has built-in circulation pumps*, making it easy to connect to the heating medium and brine circuits. The energy from the heat source is taken up via a closed collector system in which a mixture of water and antifreeze circulates. The heat source can be rock, soil, lake, exhaust air or other process heating.

Ground water can also be used as a heat source. This requires an intermediate heat exchanger. The brine emits its heat to the refrigerant in the heat pump's evaporator. It then vaporises and is compressed in the compressor. The refrigerant, with its increased temperature, is led into the condenser where it emits its energy to the heating medium circuit.

* 60 kW with external brine pump.



Docking

As many as nine NIBE F1330 can be connected together to achieve an output of up to 540 kW. It is also possible to cool via brine on hot summer days.

Several accessories are available for NIBE F1330, such as a Web interface, modbus protocol, GSM remote control and active cooling.