

## Ground Source Heat Pump NIBE™ F1155

A new generation of heat pumps

NEW



### Features of NIBE™ F1155

**Delivered power 4 - 16 kW**

**Extraordinary high efficiency (SCOP).**

**Optimal annual heating factor thanks to the inverter controlled compressor.**

**Speed controlled circulation pumps that supplies the heat pump with optimized fluid flow.**

**Minimal operating costs, no expensive peaks when it is cold outside. The compressor adapts as necessary.**

**High temperature range**

– Flow line temperature up to 65 °C (70°C)

– Return line temperature up to 58 °C

**Scheduling (indoor climate, hot water, ventilation).**

**Control of up to four heating systems.**

**Accessories available for e.g. pool heating, passive and active cooling.**

**Compatible with NIBE Uplink**

### NIBE F1155

NIBE F1155 is an intelligent heat pump fitted with inverter-controlled compressor and speed-controlled circulation pumps. Suitable for small and large residential buildings. The heat pump adjusts itself automatically to the power demand of the house. This results in optimal savings as the heat pump always runs at the correct performance all year round without the addition of extra electrical peaks.

It is prepared for connection to several different products and accessories, for example, hot water heater, ventilation recovery, pool, free cooling, active cooling and heating systems with different temperatures.

# Technical specifications

## NIBE™ F1155

Delivered power		4 – 16 kW
EN 255 (excl. circulationpumps) at 10K		
Supplied power at 0/35°C <sup>1)</sup> 50 Hz	(kW)	1.81
Delivered power at 0/35°C <sup>1)</sup> 50 Hz	(kW)	9.27
COP 0/35°C <sup>1)</sup>		5.12
EN 14511:2011		
Supplied power at 0/35°C <sup>1)</sup> 50 Hz	(kW)	1.83
Delivered power at 0/35°C <sup>1)</sup> 50 Hz	(kW)	8.89
COP 0/35°C <sup>1)</sup>		4.85
EN 14825		
P <sub>design</sub>	(kW)	16
SCOP <sup>2)</sup> <sub>on</sub>		5.4
Operational voltage 400 V 3NAC 50 Hz		
Min fusing (fuse type C) excl immersion heater	(A)	10
Immersion heater, max	(kW)	9
Refrigerant type R 407C	(kg)	2.2
Max temperature heating medium (flow/return circuit) at 0°C brine	(°C)	70/58
Sound power level (LwA) *	(dBA)	36-47
Sound pressure level (LpA)**	(dBA)	21-32
Net weight (without water)	(kg)	180
Height	(mm)	1500
Width	(mm)	600
Depth	(mm)	620

<sup>1)</sup> At Nominal power

<sup>2)</sup> Cold climate, low temperature

\*According to EN 12102 at 0/35°C

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

### Docking options

The NIBE F1155 can be connected in several different ways e.g. to a ventilation recovery exhaust air module, free cooling, active 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 F1155 consists of heat pump, immersion heater, circulation pumps and control system. NIBE F1155 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.

