

Ground source heat pump NIBE F1255

NIBE F1255 is an intelligent, inverter-controlled ground source heat pump with integrated water heater. NIBE F1255 provides optimum savings since the heat pump always performs efficiently and automatically adapts to your home's heating demand all year round. NIBE is a leading player in the field of inverter technology, with many years' experience of variable output ground source heat pumps and one of the widest product ranges on the market.

NIBE F1255 has a high seasonal performance factor, resulting in minimal operating costs. The heat pump is available in three different output sizes: 1.5-6 kW, 3-12 kW and 4-16 kW, and is suitable for both small and large properties.

Thanks to smart technology, the product gives you control over your energy consumption and will be a key part of your connected home. The efficient control system automatically adjusts the indoor climate for maximum comfort, and you do nature a favour at the same time.

- Three output sizes and leading inverter technology for optimum customisation.
- Optimal seasonal performance factor and minimal operating costs.
- Energy-saving smart technology with user-friendly control for maximum comfort.

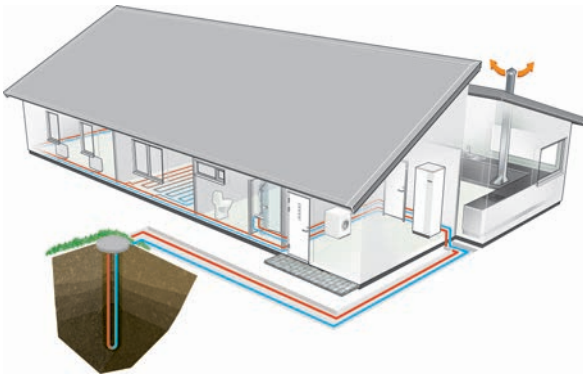


This is how F1255 works

Installation method

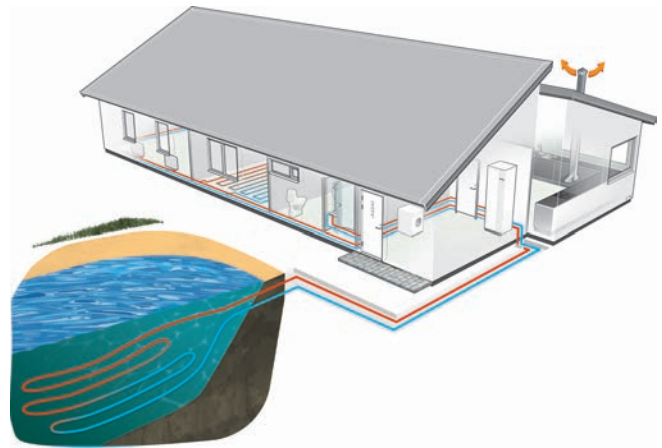
Rock

F1255 collects a proportion of the rock's stored solar energy via a collector in a borehole in the rock.



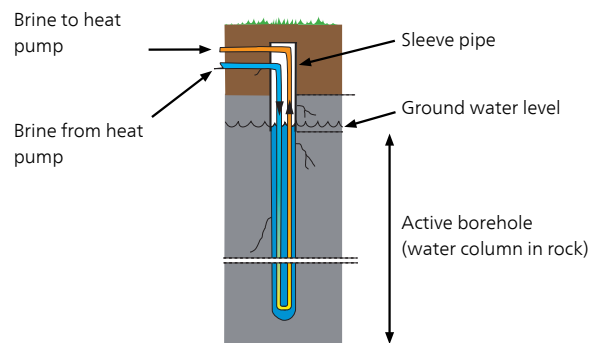
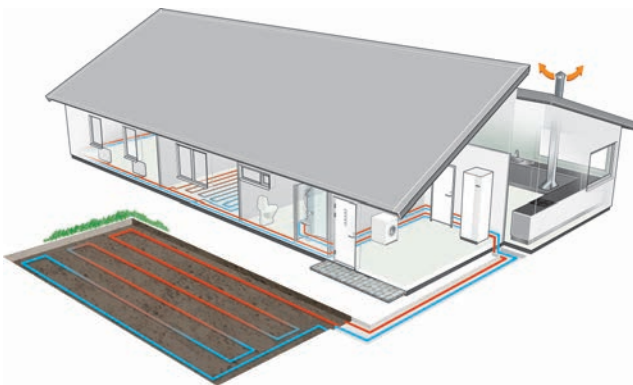
Lake

F1255 collects a proportion of the water's stored solar energy via a lake collector that is anchored on the lake bed.



Ground

F1255 collects a proportion of the ground's stored solar energy via a buried ground collector.



Design

F1255 is equipped with a 180 litre water heater, which is optimally insulated for minimal heat loss. F1255-6 has a 6.5 kW immersion heater whilst F1255-12 and F1255-16 have an integrated electric heater of 7 kW with seven steps that automatically engage as necessary. Switchable to four steps of 9 kW.

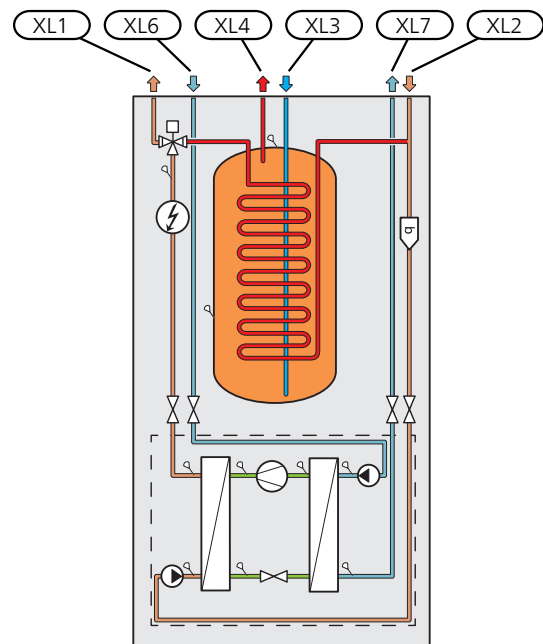
F1255 is constructed on a robust frame with durable panels and effective soundproofing for the best possible comfort. All panels are easy to remove to facilitate installation and for any servicing.

Principle of operation

F1255 consists of a heat pump, water heater, electrical module, circulation pumps and a control system. F1255 is connected to the brine and heating medium circuits.

The heat from the heat source (rock, soil, lake) is taken up via a closed brine system in which a mixture of water and antifreeze circulates. In some cases, the ground water can also be used as a heat source. An intermediate heat exchanger should be used to protect the heat pump in such cases.

In the heat pump evaporator, the brine (water mixed with anti-freeze, glycol or ethanol) releases its energy to the refrigerant, which is vaporised 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 the water heater. If there is a greater need for heating/hot water than the compressor can provide there is an integrated immersion heater.



XL1	Connection, heating medium flow
XL2	Connection, heating medium return
XL3	Connection, cold water
XL4	Connection, hot water
XL6	Connection, brine in
XL7	Connection, brine out

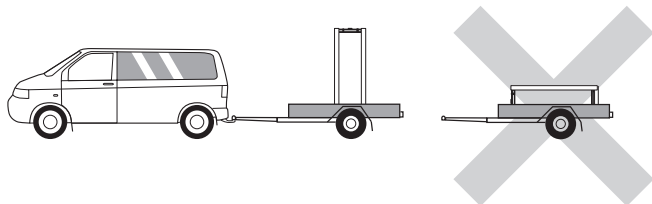
Good to know about F1255

Transport and storage

F1255 should be transported and stored vertically in a dry place. When being moved into a building, F1255 may be leant back 45 °.

The product can be tail heavy.

Remove the outer panels in order to protect them when moving in confined spaces inside buildings.



EXTRACTING THE COOLING MODULE

To simplify transport and service, the heat pump can be separated by pulling the cooling module out from the cabinet.

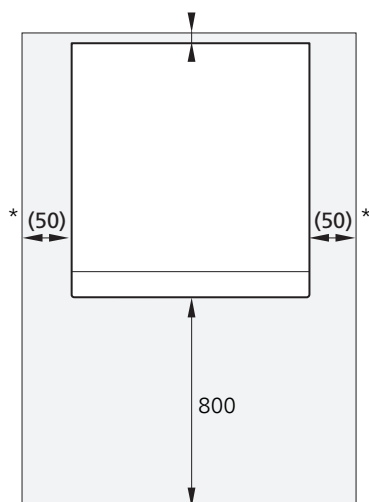
See section "Service" in the installer manual for comprehensive instructions about the separation.

Installation and positioning

- Position F1255 on a fixed foundation that can take the weight of the heat pump.
- Because water comes from F1255, the area where the heating pump is located must be equipped with floor drainage.
- Install with its back to an outside wall, ideally in a room where noise does not matter, in order to eliminate noise problems. If this is not possible, avoid placing it against a wall behind a bedroom or other room where noise may be a problem.
- Wherever the unit is located, walls to sound sensitive rooms should be fitted with sound insulation.
- Route pipes so they are not fixed to an internal wall that backs on to a bedroom or living room.

INSTALLATION AREA

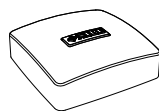
Leave a free space of 800 mm in front of the product. Approx. 50 mm free space is required on each side, to remove the side panels (see image). The panels do not need to be removed during service. All service on F1255 can be carried out from the front. Leave space between the heat pump and the wall behind (and any routing of supply cables and pipes) to reduce the risk of any vibration being propagated.



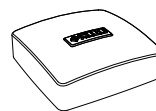
* A normal installation needs 300 – 400 mm (any side) for connection equipment, i.e. level vessel, valves and electrical equipment.

Supplied components

Local differences in the enclosed kit may occur. See relevant installer manual for more information.



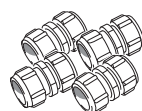
Outside sensor



Room sensor



O-rings



Compression ring couplings

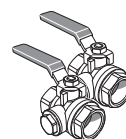
6 kW

2 x (ø28 x G25)

2 x (ø22 x G20)

12/16 kW

4 x (ø28 x G25)



Filterball

6 kW

1 x G1

1 x G3/4

12/16 kW

1 x G1

1 x G1 1/4

Installation

Inspection of the installation

Current regulations require the heating installation to be inspected before it is commissioned. The inspection must be carried out by a suitably qualified person.

Pipe installation

Pipe installation must be carried out in accordance with current norms and directives. F1255 can operate with a return temperature of up to 58 °C and an outgoing temperature from the heat pump of 70 (65 °C with only the compressor).

F1255 is not equipped with external shut off valves; these must be installed to facilitate any future servicing.

PIPE CONNECTION BRINE

- Insulate all indoor brine pipes against condensation.
- The level vessel must be installed at the highest point in the brine system, on the incoming pipe before the brine pump .

If the level vessel cannot be placed at the highest point, an expansion vessel must be used.

Note that condensation may drip from the level vessel. Position the vessel so that this does not harm other equipment.

- Details of the antifreeze used must be shown on the level vessel.
- Install the enclosed safety valve under the level vessel . The entire length of the overflow water pipe from the safety valve must be inclined to prevent water pockets and must also be frost-free.
- Install shut off valves as close to the heat pump as possible.
- Fit the supplied particle filter on the incoming pipe.

In the case of connection to an open groundwater system, an intermediate frost-protected circuit must be provided, because of the risk of dirt and freezing in the evaporator. This requires an extra heat exchanger.

Side connection

It is possible to angle the brine connections, for connection to the side instead of top connection.

PIPE CONNECTION HEATING MEDIUM

Connecting the climate system

A climate system is a system that regulates indoor comfort with the help of the control system in F1255 and for example radiators, underfloor heating/cooling, fan convectors etc.

- Install all required safety devices, shut-off valves (as close to the heat pump as possible), and supplied particle filter.
- The safety valve must have a maximum 0.25 MPa (2.5 bar) opening pressure and be installed on the heating medium return. The entire length of the overflow water pipe from the safety valves must be inclined to prevent water pockets and must also be frost-free.
- When connecting to a system with thermostats on all radiators, a relief valve must be fitted, or some of the thermostats must be removed to ensure sufficient flow.

PIPE CONNECTION WATER HEATER

- The hot water heater in the heat pump must be supplied with necessary set of valves.
- The mixing valve must be installed if the setting is changed so that the temperature can exceed 60 °C.
- The safety valve must have a maximum opening pressure of 1.0 MPa (10.0 bar) and be installed on the incoming domestic water line . The entire length of the overflow water pipe from the safety valve must be inclined to prevent water pockets and must also be frost-free.

Ensure that incoming water is clean. When using a private well, it may be necessary to supplement with an extra water filter.

For more information see nibe.eu.

Guideline values for collectors

The length of the collector hose varies depending on the rock/soil conditions, climate zone and on the climate system (radiators or underfloor heating) and the heating requirement of the building. Each installation must be sized individually.

Max length per coil for the collector should not exceed 400 m.

In those cases where it is necessary to have several collectors, these should be connected in parallel with the possibility for adjusting the flow of the relevant coil.

For surface soil heat, the hose should be buried at a depth determined by local conditions and the distance between the hoses should be at least 1 metre.

For several bore holes, the distance between the holes must be determined according to local conditions.

Ensure the collector hose rises constantly towards the heat pump to avoid air pockets. If this is not possible, airvents should be used.

Because the temperature of the brine system can fall below 0 °C, it must be protected against freezing down to -15 °C. When making the volume calculation, use 1 litres of ready mixed brine per metre of collector hose (applies when using PEM-hose 40x2.4 PN 6.3) as a guide value.

Docking alternatives

VENTILATION RECOVERY



The installation can be supplemented with the exhaust air module FLM to enable ventilation recovery. NIBE FLM is equipped with a built-in fan specially designed to combine the recovery of mechanical exhaust air with an energy collector in rock or in the ground.

- Pipes and other cold surfaces must be insulated with diffusion-proof material to prevent condensation.
- The brine system must be supplied with a pressure expansion vessel. If there is a level vessel this should be replaced.

FREE COOLING



The accessory PCS 44 allows the connection of passive cooling, for example with fan coils. The cooling system is connected to the heat pump brine circuit, whereby cooling is supplied from the collector via a circulation pump and shunt valve.

- Pipes and other cold surfaces must be insulated with diffusion-proof material to prevent condensation.
- Where the cooling demand is high, fan convectors with drip trays and drain connection are needed.
- The brine system must be supplied with a pressure expansion vessel. If there is a level vessel this should be replaced.

UNDER FLOOR HEATING SYSTEMS



The external circulation pump is dimensioned for the under floor heating system's demand.

To ensure a heating supply during hot water production, the heating system can be supplemented with a NIBE UKV vessel, e.g. when there is a water coil in the FTX ventilation.

POOL



By supplementing the installation with the accessory POOL 40, pool heating is enabled in your climate unit.

During pool heating, the heating medium circulates between the F1255 and the pool exchanger using the heat pump's internal circulation pumps.

TWO OR MORE CLIMATE SYSTEMS



In buildings with several climate systems that require different supply temperatures, the accessory ECS 40/ECS 41 can be connected. A shunt valve then lowers the temperature to the under-floor heating system, for example.

Functions

Control, general

The indoor temperature depends on several different factors. Sunlight and heat emissions from people and household machines are normally sufficient to keep the house warm during the warmer parts of the year. When it gets colder outside, the climate system must be started. The colder it is outside, the warmer radiators and under floor heating system must be.

The heat pump is controlled by built-in supply and return brine temperature sensors (collector). Brine return temperatures can, if necessary, be limited to a minimum e.g. for ground water systems.

Control of the heat production is performed based on the "floating condensing" principle, which means that the temperature level needed for heating at a specific outdoor temperature is produced based on collected values from the outdoor and supply temperature sensors. The room sensor can also be used to compensate the deviation in room temperature.

Heat production



The supply of heat to the house is regulated in accordance with the heating curve setting selected. After adjustment, the correct amount of heat for the current outdoor temperature is supplied. The supply temperature of the heat pump will oscillate around the theoretically required value.

OWN CURVE

F1255 has pre-programmed non-linear heating curves. It is also possible to create your own defined curve. This is an individual linear curve with a number of break points. You select break points and the associated temperatures.

Hot water production



Hot water charging starts when the temperature has fallen to the set start temperature. Hot water charging stops when the hot water temperature at the hot water sensor has been reached.

For occasional higher hot water demand, there is a function called "temporary lux" that allows the temperature to be raised via one time increase or up to 12 hours (selected in the menu system).

It is also possible to set F1255 in holiday mode, which means that the lowest possible temperature is achieved without the risk of freezing.

Additional heat only

F1255 can be used exclusively as an additional heater, (max 9 kW) to produce heat and any hot water, for example before the collector system is complete.

Alarm indications

The status lamp lights red in the event of an alarm and the display shows detailed information depending on the fault. An alarm log is created with each alarm containing a number of temperatures, times and operating status.

Floor drying

F1255 has an integrated underfloor drying function. This allows for controlled drying of concrete slabs. It is possible to create your own program or to follow a pre-programmed time and temperature schedule.

Brine control – for users who are going to replace existing heat pump

The risk of over-exploiting the collector system is reduced with the smart integrated Brine control. This function can be used when replacing older heat pump systems where the collector may be undersized for a modern heat pump with a higher COP and SCOP.

An undersized collector can result in additional heat being required to assist on the coldest days of the year.

NIBE Uplink



Using the Internet and NIBE Uplink, you can obtain a quick overview and the present status of the installation and the heating in your home.

You can obtain a good overall view, allowing you to monitor and control the heating and hot water comfort effectively. If the system is affected by a malfunction, you receive an alert via e-mail that allows you to react quickly.

NIBE Uplink also gives you the opportunity to control the comfort in your home easily, no matter where you are.

RANGE OF SERVICES

You have access to different levels of service via NIBE Uplink. A basic level that is free and a premium level where you can select different extended service functions for a fixed annual subscription fee (the subscription fee varies depending on the selected functions).

NIBE Uplink also available as an app from App Store and Google Play.

INSTALLATION AND ASSOCIATED EQUIPMENT REQUIREMENTS

The following is required in order for NIBE Uplink to function with the installation:

- Network cable (straight, at least Cat 5E UTP).
- Internet connection.
- Web browser that supports JavaScript.

If it is not possible to connect to NIBE Uplink, F1255 can be controlled remotely via text message. For this, the SMS 40 accessory is required.

For further presentation, visit nibeuplink.com.

The display

F1255 is controlled using a clear and easy to use display.

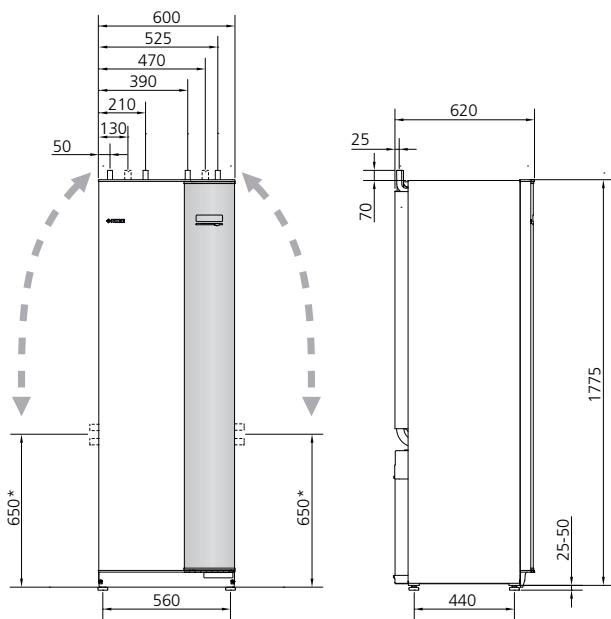
Instructions, settings and operational information are shown on the display. You can easily navigate between the different menus and options to set the comfort or obtain the information you require.

The display unit is equipped with a USB socket that can be used to update the software and save logged information in F1255.

Visit nibeuplink.com and click the "Software" tab to download the latest software for your installation.

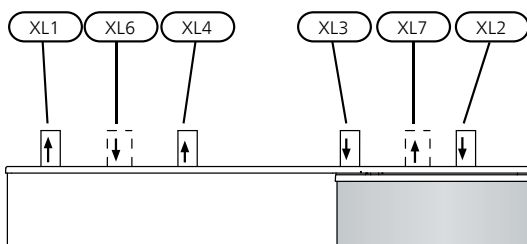
Technical data

Dimensions



* Can be angled for side connection

Pipe connections



PIPE DIMENSIONS

Connection		6 kW	12 kW	16 kW
(XL1)/(XL2) Heating medium flow/return ext Ø	(mm)	22	28	
(XL3)/(XL4) Cold/hot water Ø	(mm)		22	
(XL6)/(XL7) Brine in/out ext Ø	(mm)		28	

Technical data

The following data only applies to F1255 3x400 V. F1255 is also available with energy meter, passive cooling, and in voltage versions 1x230 V and 3x230 V. Contact your NIBE dealer for more information.

3X400V ELECTRICAL DATA

F1255-6		
Rated voltage		400V 3N ~ 50Hz
Max operating current including 0 kW immersion heater (Recommended fuse rating).	A_{rms}	12(16)
Max operating current including 0.5 – 6.5 kW immersion heater (Recommended fuse rating).	A_{rms}	16(16)
Additional power	kW	0.5 – 6.5

F1255-12		
Rated voltage		400V 3N ~ 50Hz
Max operating current including 0 kW immersion heater (Recommended fuse rating).	A_{rms}	9(10)
Max operating current including 1 kW immersion heater (Recommended fuse rating).	A_{rms}	12(16)
Max operating current including 2 – 4 kW immersion heater (Recommended fuse rating).	A_{rms}	16(20)
Max operating current including 5 – 7 kW immersion heater (Recommended fuse rating).	A_{rms}	21(25)
Max operating current including 9 kW immersion heater, requires reconnection (Recommended fuse rating).	A_{rms}	24(25)
Additional power	kW	1 – 9

F1255-16		
Rated voltage		400V 3N ~ 50Hz
Max operating current including 0 kW immersion heater (Recommended fuse rating).	A_{rms}	10(10)
Max operating current including 1 kW immersion heater (Recommended fuse rating).	A_{rms}	13(16)
Max operating current including 2 – 4 kW immersion heater (Recommended fuse rating).	A_{rms}	17(20)
Max operating current including 5 – 7 kW immersion heater (Recommended fuse rating).	A_{rms}	21(25)
Max operating current including 9 kW immersion heater, requires reconnection (Recommended fuse rating).	A_{rms}	24(25)
Additional power	kW	1 – 9
Short circuit power (Ssc)*	MVA	2.0

*) This equipment complies with IEC 61000-3-12, on the condition that the short circuit power Ssc is greater than or equal to 2.0 MVA at the connection point between the customer installation electrical supply and the mains network. It is the responsibility of the installer or user to ensure, through consultation with the distribution network operator if required, that the equipment is only connected to a supply with a short circuit power Ssc equal to or greater than 2.0 MVA.

3X400 V

		F1255-6	F1255-12	F1255-16
<i>Output data according to EN 14511</i>				
Heating capacity (P_H)	kW	1.5 – 6	3 – 12	4 – 16
<i>0/35 nominal</i>				
Heating capacity (P_H)	kW	3.15	5.06	8.89
Supplied power (P_E)	kW	0.67	1.04	1.83
COP		4.72	4.87	4.85
<i>0/45 nominal</i>				
Heating capacity (P_H)	kW	2.87	4.78	8.63
Supplied power (P_E)	kW	0.79	1.27	2.29
COP		3.61	3.75	3.77
<i>10/35 nominal</i>				
Heating capacity (P_H)	kW	4.30	6.33	11.22
Supplied power (P_E)	kW	0.66	1.03	1.84
COP		6.49	6.12	6.11
<i>10/45 nominal</i>				
Heating capacity (P_H)	kW	3.98	5.98	10.92
Supplied power (P_E)	kW	0.83	1.30	2.32
COP		4.79	4.59	4.72
<i>SCOP according to EN 14825</i>				
Rated heating output ($P_{designh}$)	kW	6	12	16
SCOP _{EN14825} cold climate 35 °C / 55 °C		5.5 / 4.1	5.4 / 4.3	5.5 / 4.2
SCOP _{EN14825} average climate, 35 °C / 55 °C		5.2 / 4.0	5.2 / 4.1	5.2 / 4.1
<i>Energy rating, average climate</i>				
The product's efficiency class room heating 35 °C / 55 °C ¹⁾		A++ / A++	A++ / A++	A++ / A++
Space heating efficiency class of the system 35 °C / 55 °C ²⁾		A+++ / A+++	A+++ / A+++	A+++ / A+++
Efficiency class, hot water / charging profile ³⁾		A / XL	A / XL	A / XL

		F1255-6			F1255-12			F1255-16		
<i>Noise</i>										
Sound power level (L _{WA}) acc to EN 12102 at 0/35	dB(A)	36 – 43			36 – 47			36 – 47		
Sound pressure level (L _{PA}) calculated values according to EN ISO 11203 at 0/35 and 1m range	dB(A)	21 – 28			21 – 32			21 – 32		
<i>Electrical data</i>										
Output, Brine pump	W	10 – 87			3 – 180			20 – 180		
Output, Heating medium pump	W	2 – 63			2 – 60			10 – 87		
Enclosure class		IP21								
<i>Refrigerant circuit</i>										
Type of refrigerant		R407C								
GWP refrigerant		1,774								
Volume	kg	1.16			2.0			2.2		
CO ₂ equivalent	ton	2.06			3.55			3.90		
<i>Brine circuit</i>										
Min/max system pressure brine	MPa	0.05 (0.5 bar) / 0.45 (4.5 bar)								
Nominal flow	l/s	0.18			0.29			0.51		
Max external avail. press at nom flow	kPa	64			115			95		
Min/Max incoming Brine temp	°C	see diagram								
Min. outgoing brine temp.	°C	-12								
<i>Heating medium circuit</i>										
Min/Max system pressure heating medium	MPa	0.05 (0.5 bar) / 0.45 (4.5 bar)								
Nominal flow	l/s	0.08			0.12			0.22		
Max external avail. press at nom flow	kPa	69			73			71		
Min/max HM-temp	°C	see diagram								
<i>Pipe connections</i>										
Brine ext diam. CU pipe	mm	28								
Heating medium ext diam. CU pipes	mm	22			28			28		
Hot water connection external diam	mm	22								
Cold water connection external diam	mm	22								
<i>Water heater</i>										
Volume water heater	l	approx. 180								
Max pressure in water heater	MPa	1.0 (10 bar)								
<i>Hot water heating capacity (comfort mode Normal) According to EN16147</i>										
Amount of hot water (40 °C)		245			240			240		
COP _{DHW} (load profile XL)		2.6			2.5			2.5		
<i>Compressor oil</i>										
Oil type		POE								
Volume	l	0.68			0.9			1.45		
<i>Dimensions and weight</i>										
Width	mm	600								
Depth	mm	620								
Height	mm	1800								
Required ceiling height ⁴⁾	mm	1950								
Corrosion protection ⁵⁾		Cu	Rf	E	Cu	Rf	E	Cu	Rf	E
Weight complete heat pump	kg	220	200	235	250	230	270	255	235	270
Weight only cooling module	kg	90			120			125		
Part number, 3x400V		065 267	065 269	065 268	065 400	065 402	065 401	065 059	065 257	065 239

¹⁾Scale for the product's efficiency class room heating: A++ to G.

²⁾Scale for the system's efficiency class room heating: A+++ to G. Reported efficiency for the system takes the product's temperature regulator into account.

³⁾Scale for efficiency class hot water: A to G.

⁴⁾With feet removed, the required ceiling height is approx. 1,930 mm.

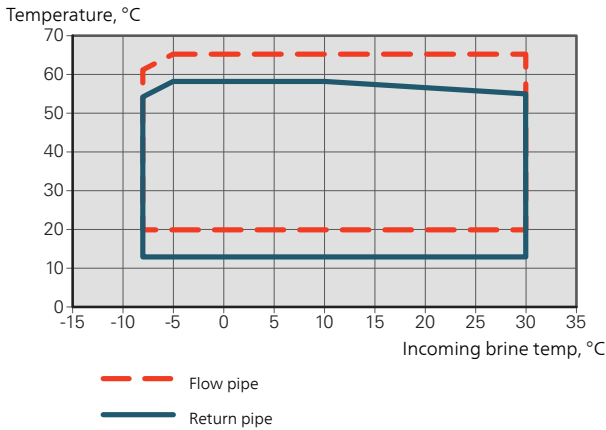
⁵⁾Cu: copper, Rf: stainless steel, E: enamel.

WORKING RANGE HEAT PUMP, COMPRESSOR OPERATION

The compressor provides a supply temperature up to 65 °C, at 0 °C incoming brine temperature, the remainder (up to 70°C) is obtained using the additional heat.

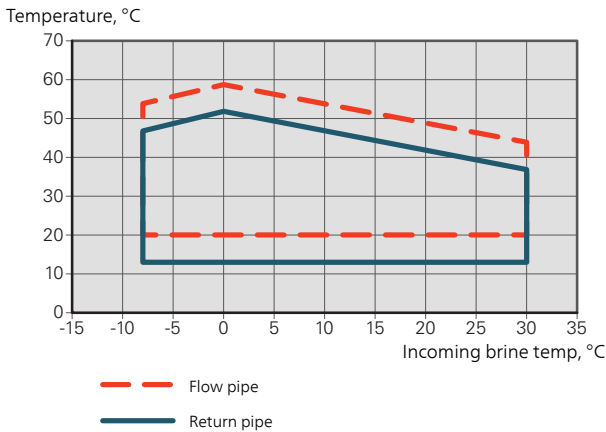
F1255-6, -12, -16

This diagram shows the working range below 75 % for *F1255-6* and the entire working range for *F1255-12, -16*.



F1255-6

This diagram shows the working range above 75 % for *F1255-6*.



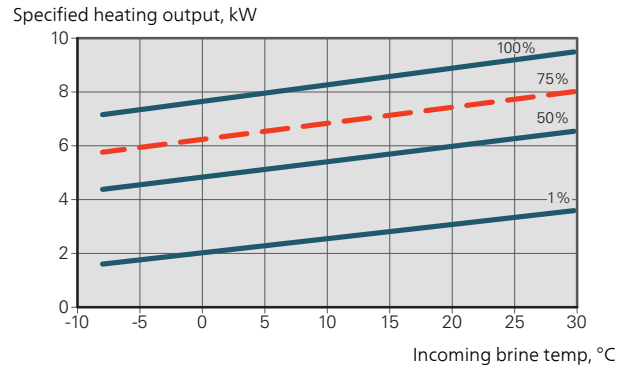
Unlocking is required for *F1255-6* to operate above 75% compressor speed. This can produce a louder noise level than the value stated in the technical specifications.

DIAGRAM, DIMENSIONING COMPRESSOR SPEED

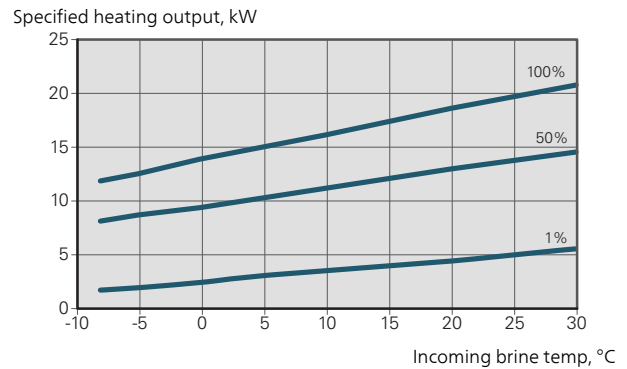
Heating mode 35 °C

Use this diagram to dimension the heat pump. The percentages show approximate compressor speed.

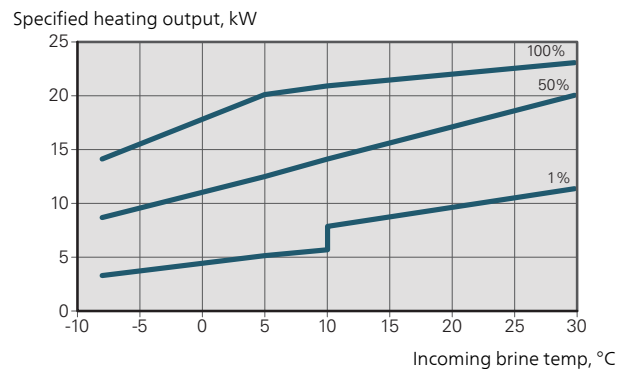
F1255-6



F1255-12



F1255-16



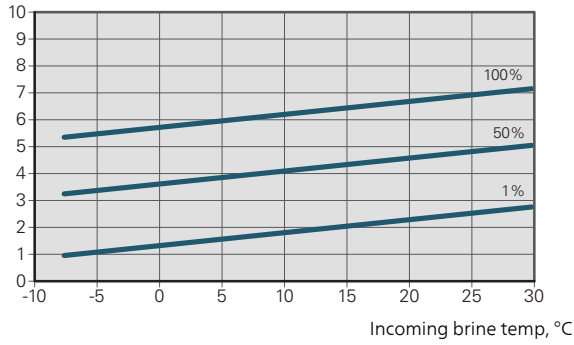
Cooling mode (Accessory required)

To dimension heating dump, see the diagram for heating operation.

Supply temperature, heating medium 35 °C

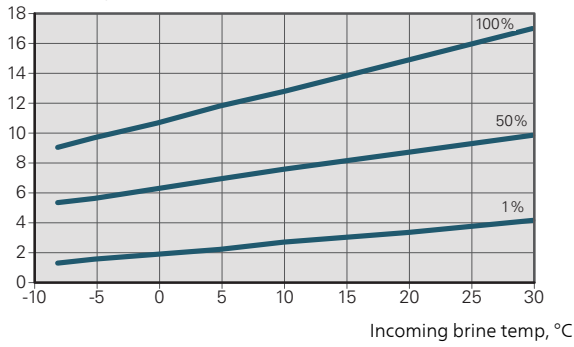
F1255-6

Specified cooling output, kW



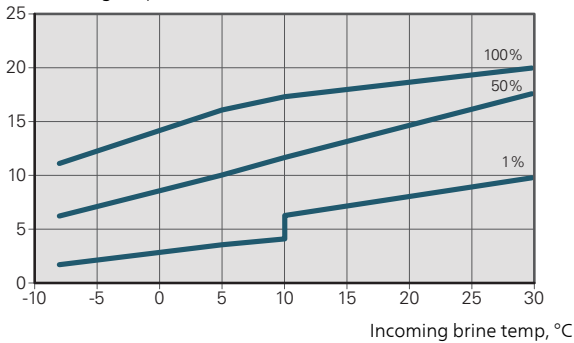
F1255-12

Specified cooling output, kW



F1255-16

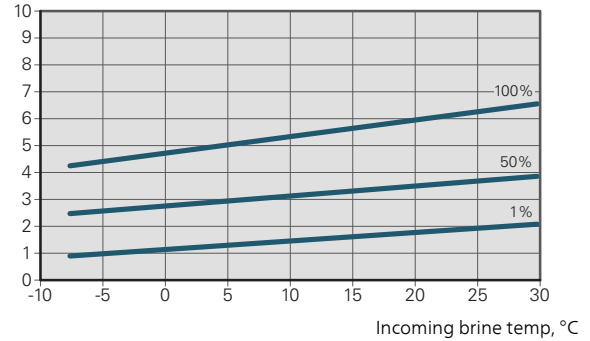
Specified cooling output, kW



Supply temperature, heating medium 50 °C

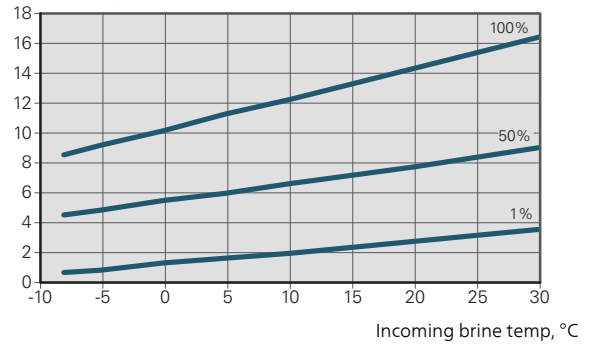
F1255-6

Specified cooling output, kW



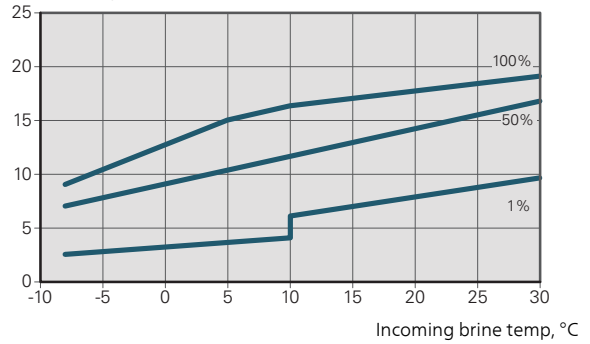
F1255-12

Specified cooling output, kW



F1255-16

Specified cooling output, kW

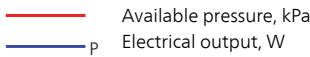


DIAGRAMS, PUMP CAPACITY

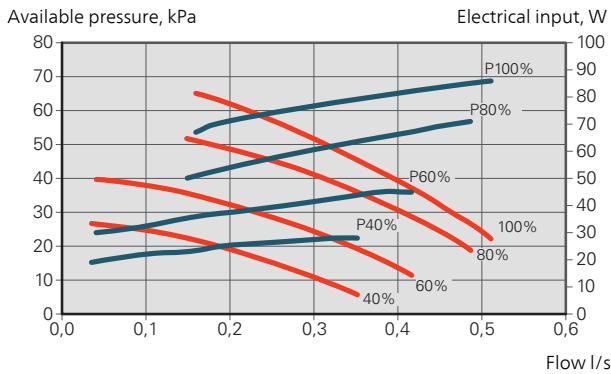
Brine side

The brine pump must run at the correct speed for the correct flow in the brine system. F1255 has a brine pump that can be automatically controlled in standard mode.

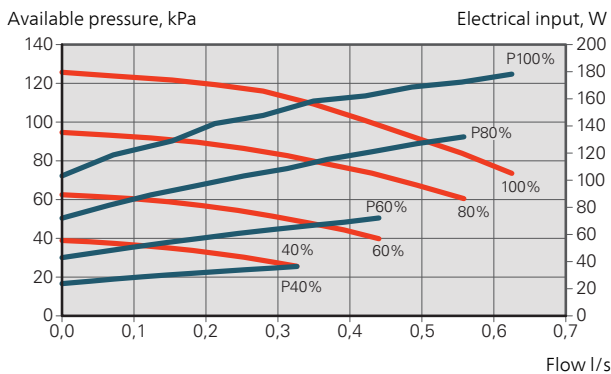
The automatic control occurs when the compressor is running and it sets the speed of the brine pump to obtain the optimal temperature difference between the supply and return lines.



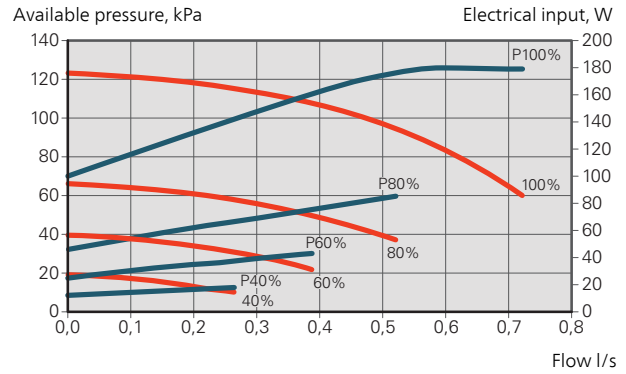
F1255 6 kW



F1255 12 kW



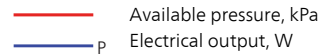
F1255 16 kW



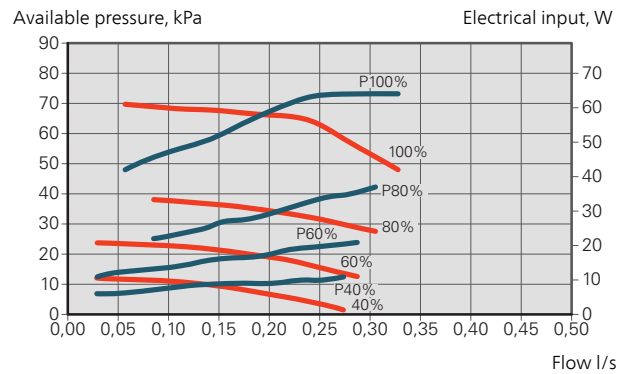
Heating medium side

To set the correct flow in the heating medium system, the heating medium pump must run at the correct speed. F1255 has a heating medium pump that can be automatically controlled in standard mode.

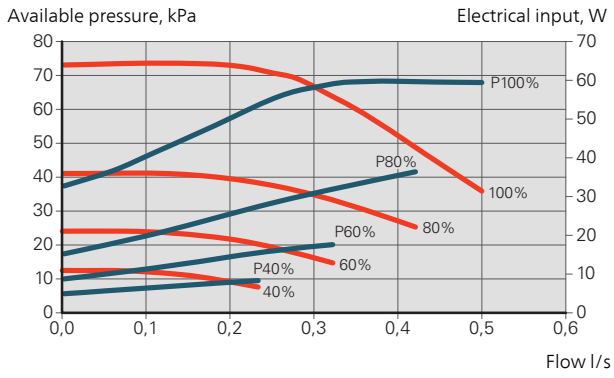
This automatic control occurs when the compressor is running and sets the speed of the heating medium pump, for the present operating mode, to obtain the optimal temperature difference between the supply and return lines.



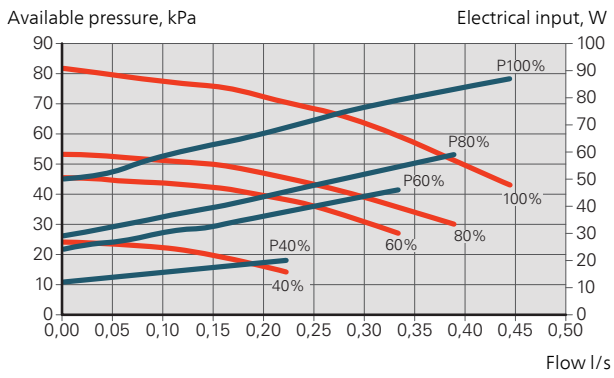
F1255 6 kW



F1255 12 kW



F1255 16 kW



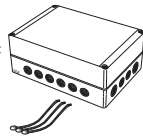
Accessories

Not all accessories are available on all markets.

Detailed information about the accessories and complete accessories list available at nibe.eu.

ACTIVE/PASSIVE COOLING IN 4-PIPE SYSTEM ACS 45

ACS 45 is an accessory that makes it possible for your heat pump to control the production of heating and cooling independently of each other.



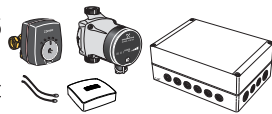
ACTIVE/PASSIVE COOLING HPAC 40

The accessory HPAC 40 is a climate exchange module that is to be included in a system with F1255.



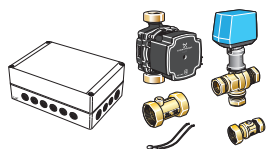
EXTRA SHUNT GROUP ECS 40/ECS 41

This accessory is used when F1255 is installed in houses with two or more different heating systems that require different supply temperatures.



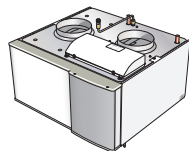
FREE COOLING PCS 44

This accessory is used when F1255 is installed in an installation with passive cooling.



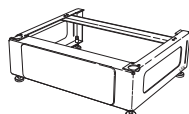
EXHAUST AIR MODULE NIBE FLM

NIBE FLM is an exhaust air module designed to combine recovery of mechanical exhaust air with ground source heating.



BASE EXTENSION EF 45

This accessory is used to create a larger connection area under F1255.



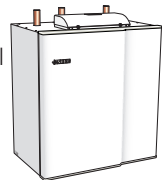
COMMUNICATIONS MODULE SMS 40

When there is no internet connection, you can use the accessory SMS 40 to control F1255 via SMS.



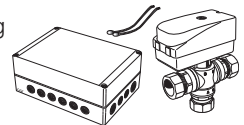
PASSIVE COOLING PCM 42

PCM 42 makes it possible to obtain passive cooling from rock, groundwater or surface soil collectors.



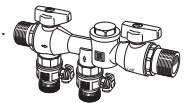
POOL HEATING POOL 40

POOL 40 is used to enable pool heating with F1255.



FILLING VALVE KIT KB 25/32

Valve kit for filling brine in the collector hose. Includes particle filter and insulation.



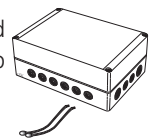
ROOM UNIT RMU 40

RMU 40 means that control and monitoring of F1255 can be carried out in a different part of your home to where it is located.



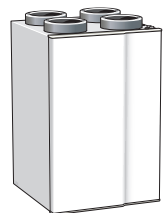
ACCESSORY CARD AXC 40

This accessory is used to enable connection and control of shunt controlled additional heat, step controlled additional heat, external circulation pump or ground water pump.



VENTILATION HEAT EXCHANGER

This accessory is used to supply the accommodation with energy that has been recovered from the ventilation air. The unit ventilates the house and heats the supply air as necessary.







NIBE Energy Systems
Box 14, SE-285 21 Markaryd
nibe.eu

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