

Air/water heat pump

NIBE S2061



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Important information

Safety information

This manual describes installation and service procedures for implementation by specialists.

The manual must be left with the customer.

For the latest version of the product's documentation, see nibe.eu.



CAUTION!

Read the enclosed safety manual before installation or servicing.

Symbols

Explanation of symbols that may be present in this manual.



CAUTION!

This symbol indicates danger to person or machine.



NOTE!

This symbol indicates important information about what you should consider when installing or servicing the installation.



TIP!

This symbol indicates tips on how to facilitate using the product.

Marking

Explanation of symbols that may be present on the product's label(s).



Fire hazard!



Read the User Manual.



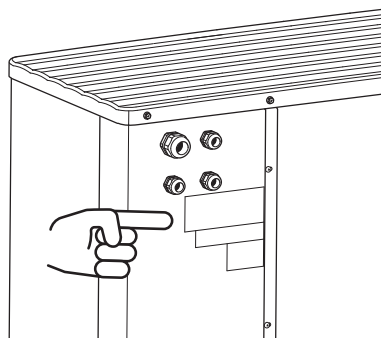
Read the User Manual.



Read the Installer Manual.

Serial number

The serial number can be found at the top left on the rear of S2061 on the type plate (PZ1).



Inspection of the installation

Current regulations require the heating installation to pass an installation inspection before it is commissioned. The inspection must be carried out by a suitably qualified person. In addition, complete the page in the User Manual for information about the installation data.

✓	Description	Notes	Signature	Date
	Heating medium (page 19)			
	Water quality			
	System flushed			
	System vented			
	Particle filter			
	Shut-off valve			
	Tapping valve			
	Charge flow set			
	Safety valve (opening pressure)			
	Electricity (page 20)			
	Fuses property			
	Safety breaker			
	Earth circuit-breaker			
	Heating cable type/effect			
	Fuse size, heating cable (F3)			
	Communication cable connected			
	S2061 addressed (only when cascade connection)			
	Cooling permitted			
	Connections			
	Main voltage			
	Phase voltage			
	Condensation water pipe			
	Insulation for condensation water pipe, thickness (unless KVR is used)			
	Heating cable, if installed (voltage and length)			
	Miscellaneous			
	Update to the latest version of the software in the indoor module/control module.			

System solutions

Go to [NIBE Compatibility](#) or scan the QR code below.



This provides information about possible combinations with S2061. (Some products are not sold in all markets).

Delivery and handling

Transport

S2061 should be transported and stored vertically in a dry place.



CAUTION!

Ensure that the heat pump cannot fall over during transport.

Check that S2061 has not been damaged during transport.

LIFT FROM THE STREET TO THE SET UP LOCATION

If the surface allows, the easiest method is to use a pallet truck to move the heat pump to the installation area.

The centre of gravity is offset to one side (see print on the packaging).

If the heat pump needs to be transported across soft ground, such as a lawn, we recommend using a crane truck that can lift it to the installation location.

When lifting the heat pump with a crane, the packaging must be intact.

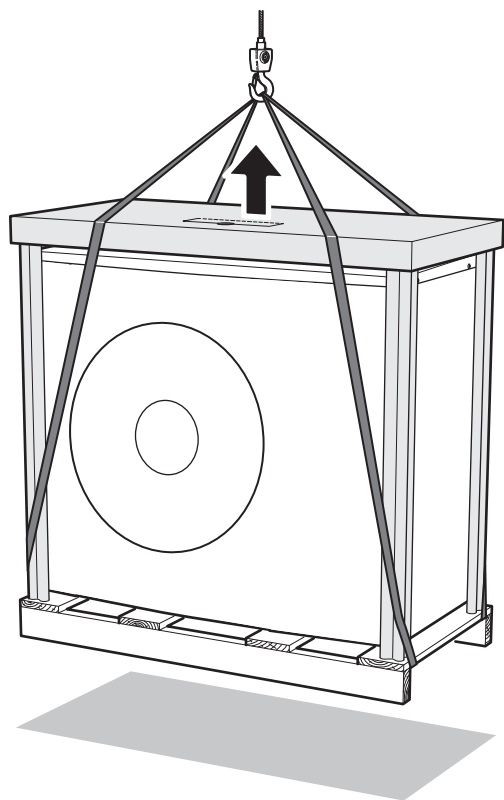
If a crane truck cannot be used, the heat pump can be transported on an extended sack truck. The heat pump must be taken hold of from its heaviest side and two people are required to lift it.

LIFT FROM THE PALLET TO FINAL POSITIONING

1. Remove the packaging.
2. Dismantle the load anchor to the pallet.
3. Place lifting straps around each adjustable foot. We recommend that two people perform the lift from the pallet to the base.

SCRAPPING

When scrapping, remove the heat pump in reverse order. In this case, lift by the base plate rather than the pallet.



Assembly

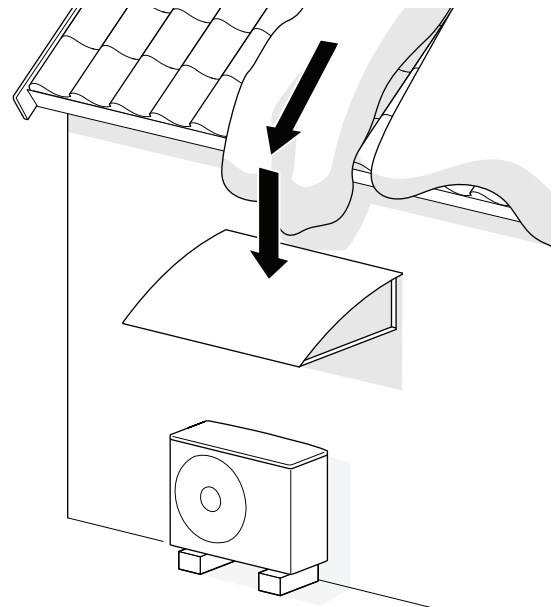
- Place the heat pump in a suitable location outdoors to prevent any risk of the refrigerant flowing in through ventilation openings, doors or similar openings in the event of a leak. It must also not constitute a hazard to people or property in any other way.
- If the heat pump is placed in a location where any refrigerant leak could accumulate, for example below ground level (in a dip or low-lying recess), the installation must satisfy the same requirements that apply for gas detection and the ventilation of engineering rooms. Requirements regarding sources of ignition must be applied where appropriate. Follow local rules and regulations.

- Place S2061 outdoors on a solid level base that can take the weight, preferably a concrete foundation. If concrete slabs are used they must rest on asphalt or shingle.

Secure S2061 to the base with four anchor bolts. Use the four enclosed dampers to ensure that the heat pump is securely anchored, which also reduces vibrations and noise.

- S2061 should not be positioned next to noise sensitive walls, for example, next to a bedroom.
- Also ensure that the placement does not inconvenience the neighbours.
- S2061 must not be placed so that recirculation of the outdoor air is possible. Recirculation entails reduced power and impaired efficiency.
- The evaporator must be sheltered from direct wind / , which negatively affects the defrosting function. Place S2061 protected from wind / against the evaporator.
- Do not install S2061 in locations where there might be substances in the atmosphere that might affect the unit, such as sulphide gas, chlorine, acid or alkaline substances, very salty air.
- Do not install S2061 in locations where powder may be present in the air, such as carbon fibre, metal powder.
- Large amounts of condensation, as well as melt water from defrosting, may be produced. Condensation must be led off to a drain or similar (see section "Condensation water").

- If there is a risk of snow slip from roof, a protective roof or cover must be erected to protect the heat pump, pipes and wiring.



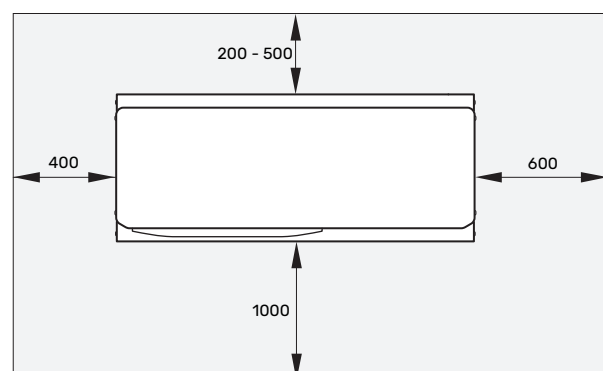
INSTALLATION AREA

Leave a free space of at least 200 mm between S2061 and the house wall, but not more than 500 mm in windy locations.

Leave a free space of 1,000 mm in front of, and 1,000 mm above, the product.

Approx. 600 mm free space is needed on the right-hand side to allow the front panel to be removed.

The heat pump must be installed so that its lower edge is at least level with the average local snow depth. The installation must be adjusted to ensure that condensation is effectively routed to the designated drain.



Condensation

Connect the enclosed condensation outlet (KVA) to the condensation drain connection (XL40) on the bottom panel to route the condensation away.

KVA does not need to be connected, if the KVR accessory is installed.



CAUTION!

It is important to the heat pump function that condensation water is led away and that the drain for the condensation water run off is not positioned so that it can cause damage to the house.

Pipe with heating cable (KVR), for draining the condensate drip tray, is not included. To guarantee this function, the accessory KVR should be used.

- The condensation water (up to 50 litres / 24 hrs) must be routed away by a pipe to an appropriate drain, it is recommended that the shortest outdoor length possible is used.
- The section of the pipe that can be affected by frost must be heated by the heating cable to prevent freezing.
- Route the pipe downward from the heat pump.
- The outlet of the condensation water pipe must be at frost free depth.
- Use a water trap for installations where air circulation may occur in the condensation water pipe.
- The insulation must seal against the bottom of the condensation water trough.

DRAINAGE OF CONDENSATION

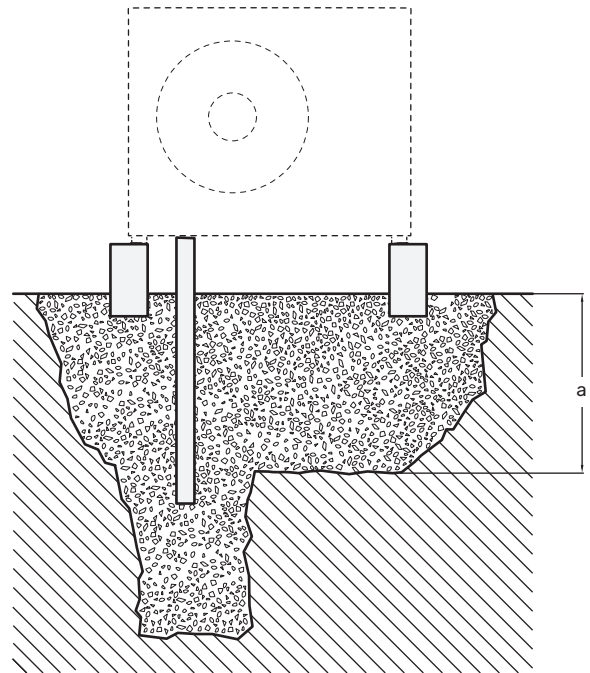


NOTE!

If none of the following recommended alternatives is used, good drainage of condensation must be provided.

Stone caisson

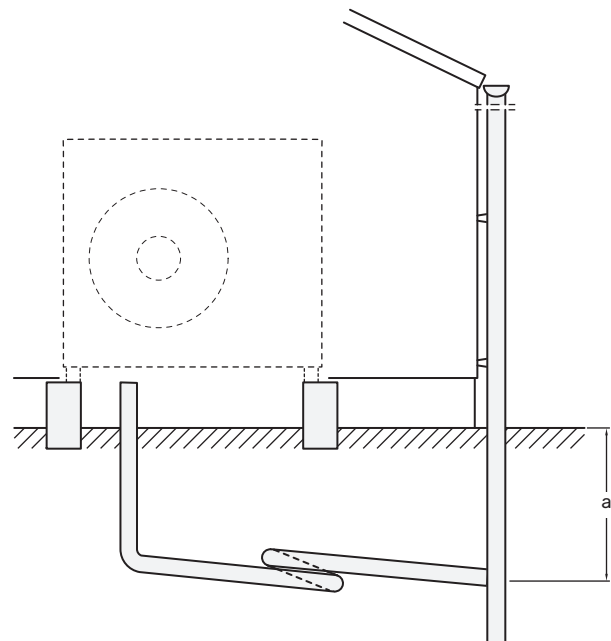
If the house has a cellar the stone caisson must be positioned so that condensation water does not affect the house. Otherwise, the stone caisson can be positioned directly below the heat pump.



a = Frost-free depth

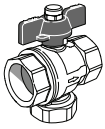
Gutter drainage

Route the pipe sloping down from the heat pump. The condensation water pipe must have a water seal to prevent air circulation in the pipe.

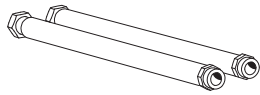


a = Frost-free depth

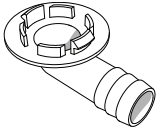
Supplied components



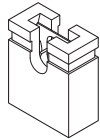
Filterball (G1") (QZ2)



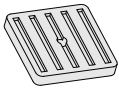
Flexible hoses (WN3) (2 pcs)
(Dimensions DN25, G1")
Including gaskets (4 pcs)



Condensation outlet (KVA)



Jumper (JP1)¹



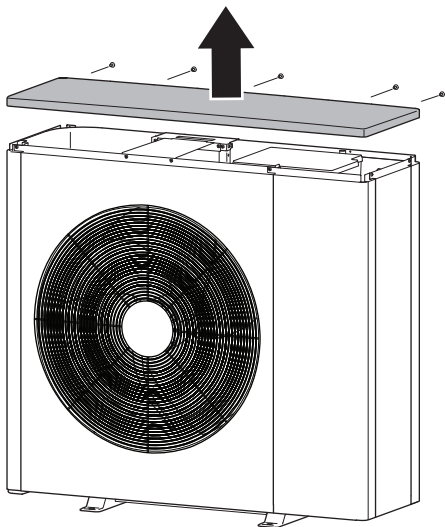
Dampers (4 pcs)

¹ Not used.

Handling panels

DISMANTLING TOP PANEL

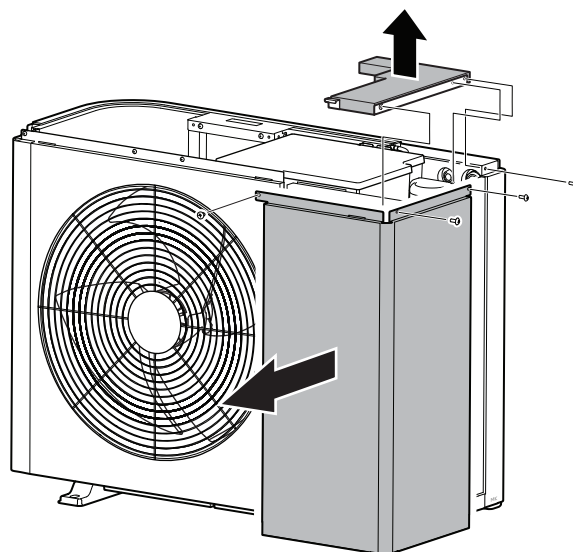
1. Loosen the top panel's screws.
2. Lift off the top panel.



DISMANTLING SIDE PANEL AND FRONT PANEL

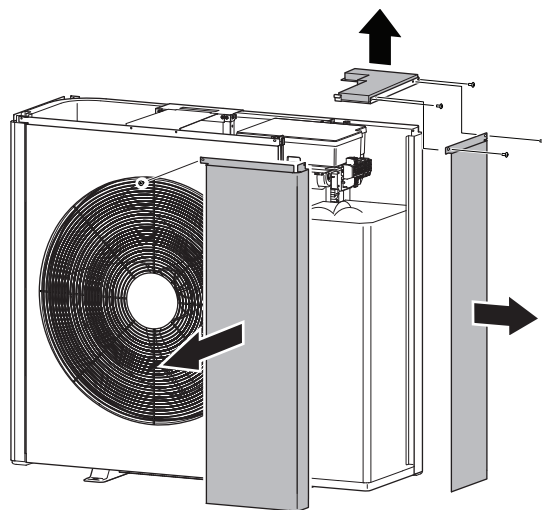
S2061-5

1. Loosen all screws.
2. Lift off the distribution box's cover.
3. Remove the side and front panels.



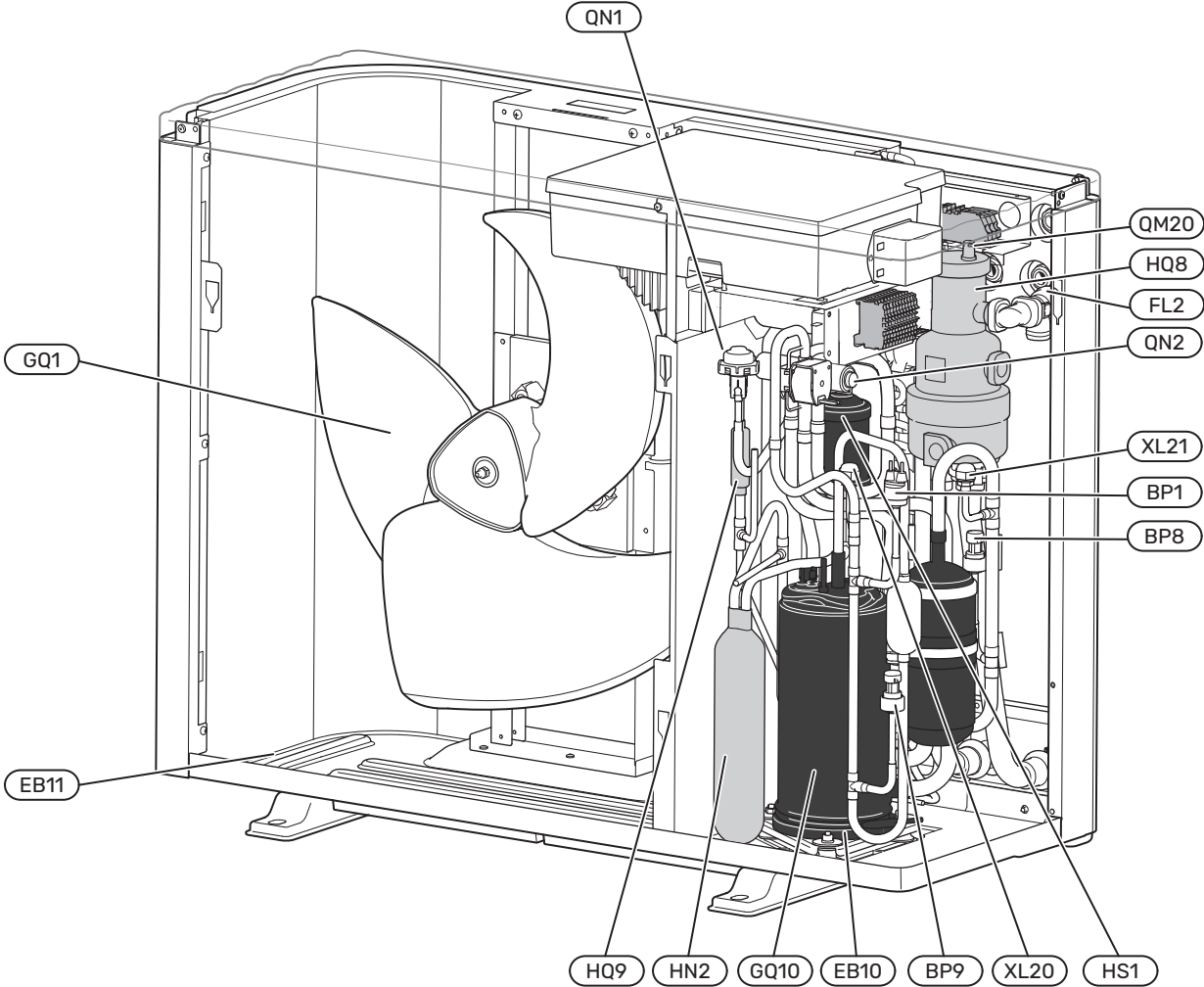
S2061-10, -12, -16

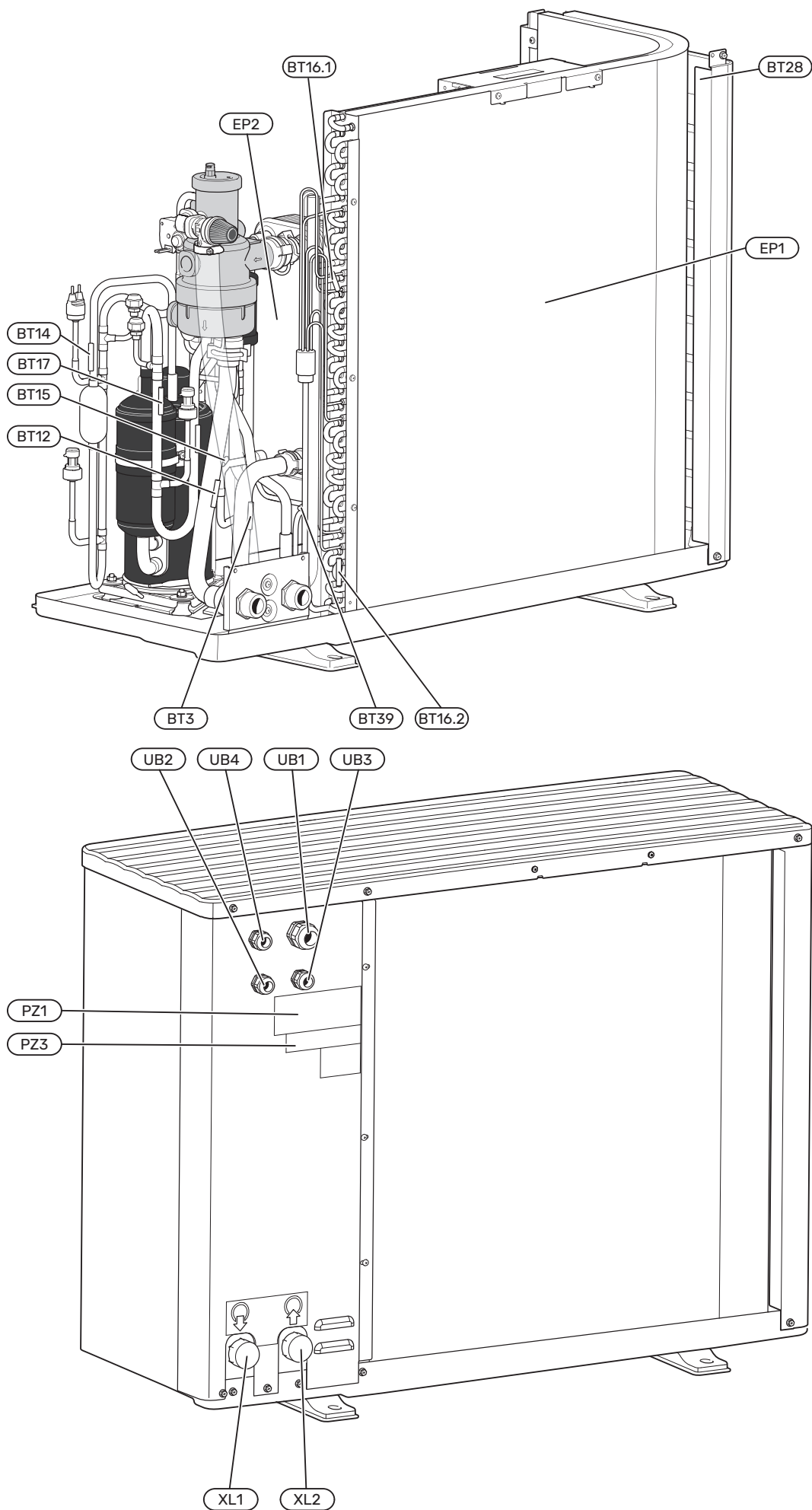
1. Loosen all screws.
2. Lift off the distribution box's cover.
3. Remove the side panel and the front panel.



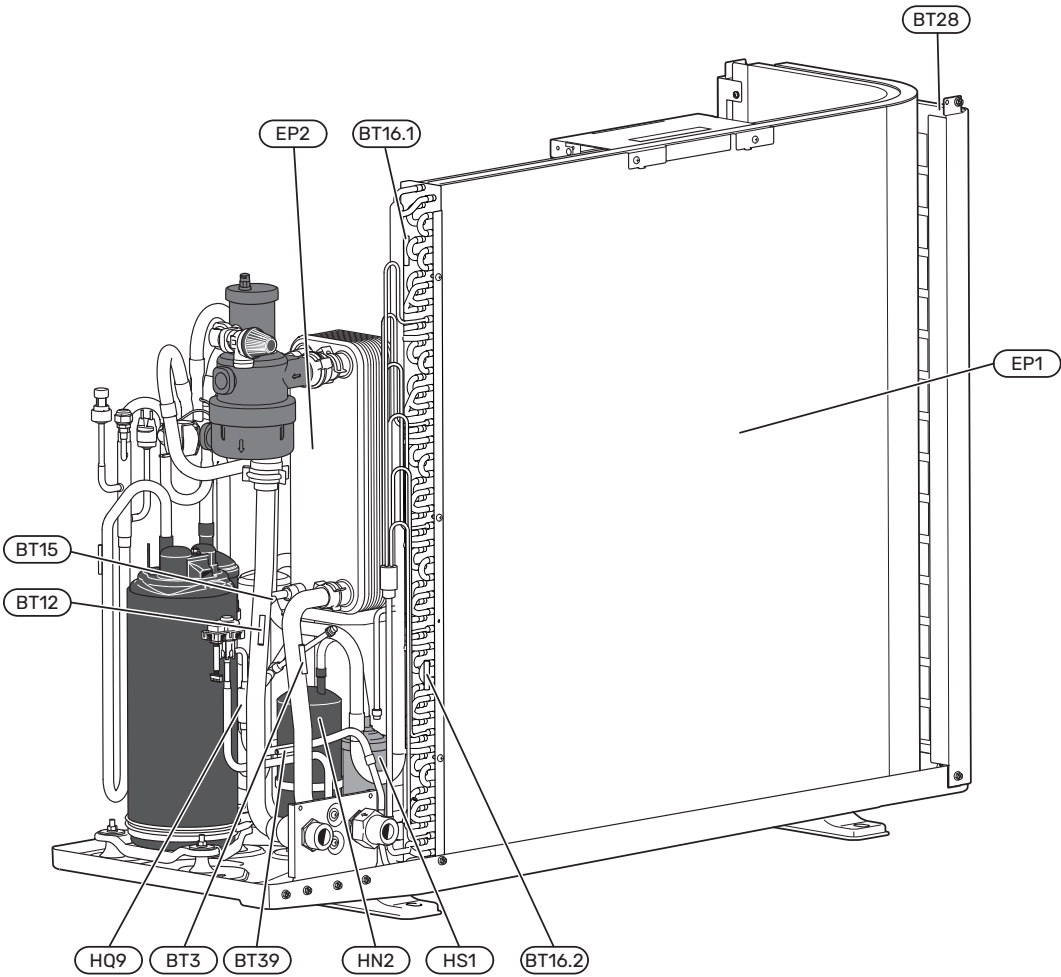
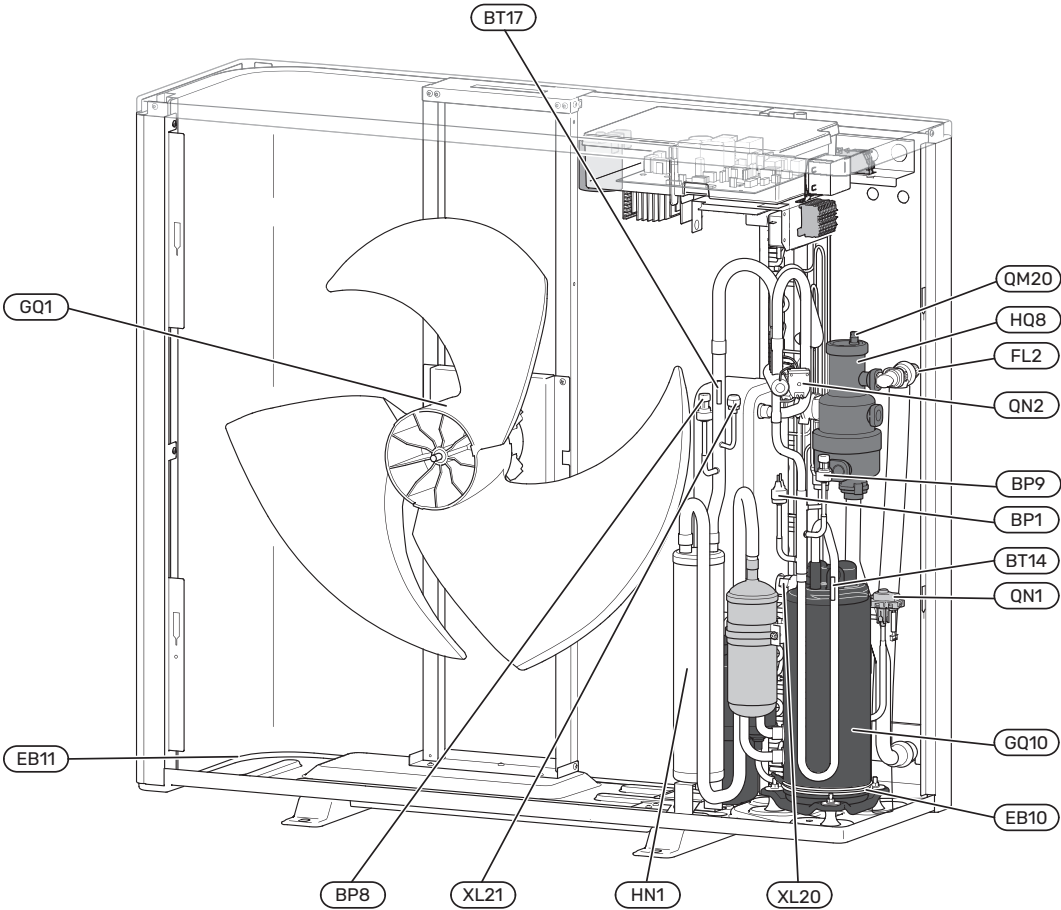
The heat pump design

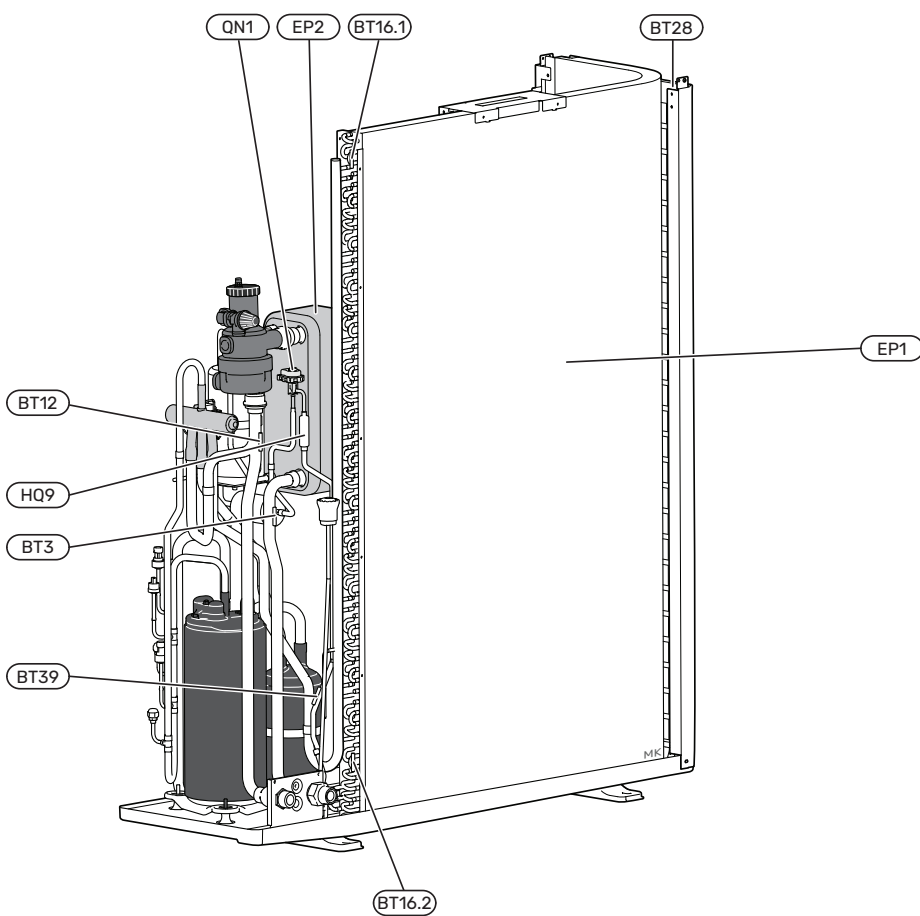
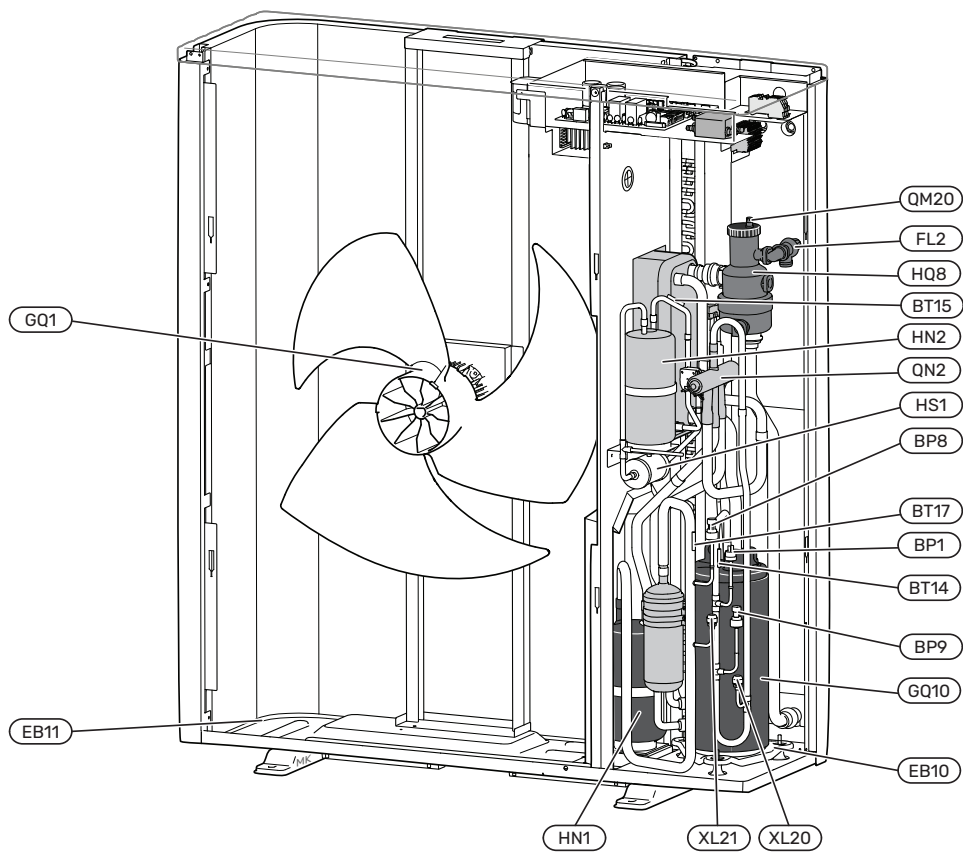
General S2061-5



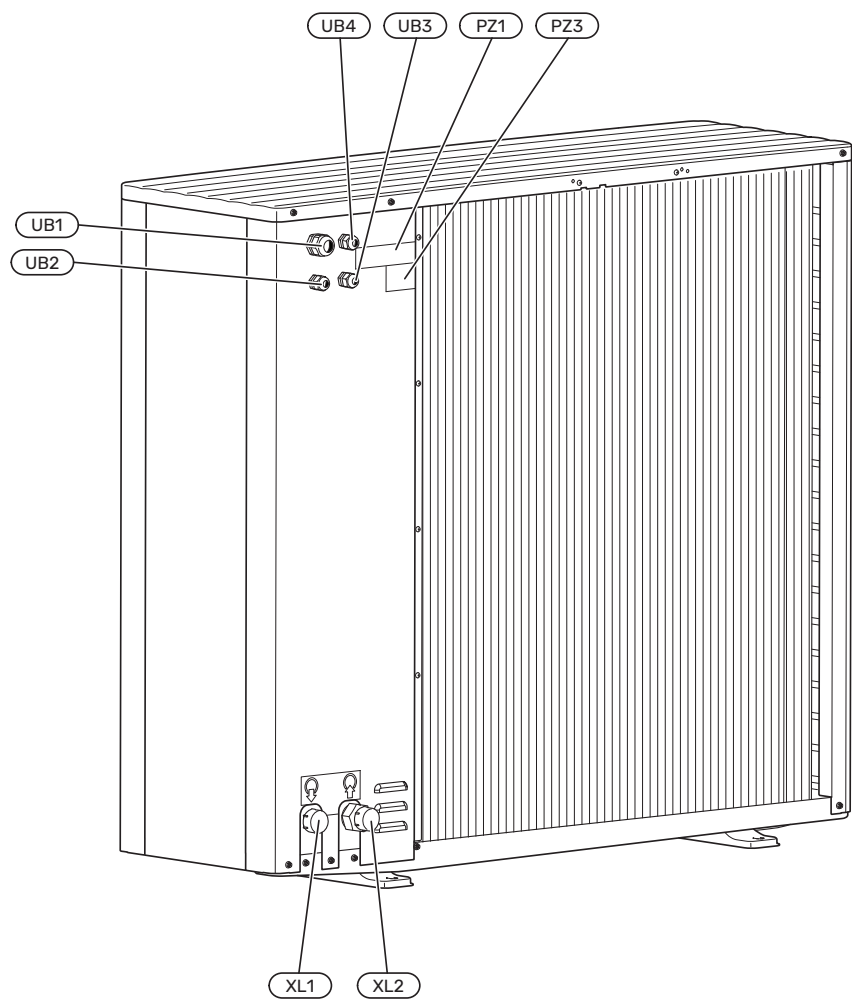


S2061-10, -12

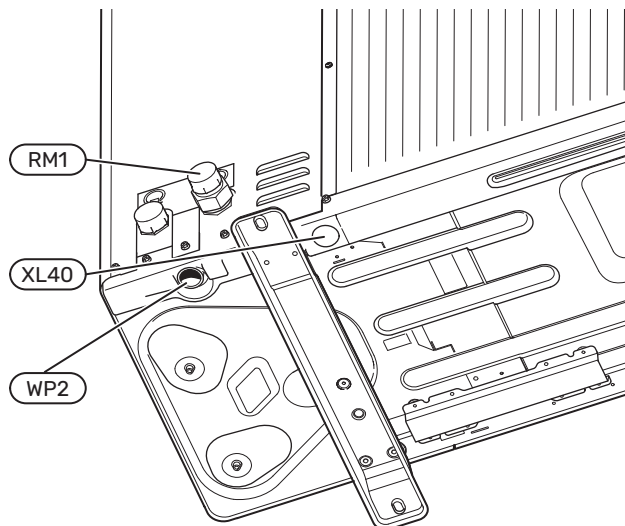




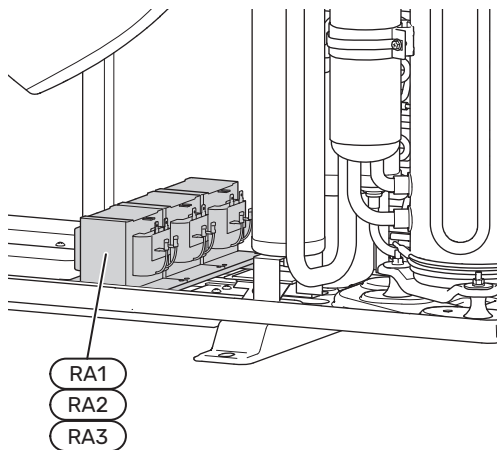
S2061-12, -16



S2061-5, -10, -12, -16



3x400 V



Pipe connections

XL1	Heating medium connection, supply (out from S2061)
XL2	Heating medium connection, return (to S2061)
XL20	Service connection, high pressure
XL21	Service connection, low pressure
XL40	Condensation drain connection (KVA)

HVAC components

FL2	Safety valve, climate system
HQ8	Automatic gas separator
QM20	Vent valve, heating medium
RM1	Non-return valve
WP2	Overflow pipe, safety valve climate system

Sensors

BP1	High pressure switch
BP8	Low-pressure sensor
BP9	High pressure sensor
BT3	Return line sensor
BT12	Condenser sensor, supply line
BT14	Hot gas sensor
BT15	Fluid line sensor
BT16.1	Evaporator sensor (upper)

BT16.2	Evaporator sensor (lower)
BT17	Suction gas sensor
BT28	Ambient sensor
BT39	Evaporation sensor

Electrical components

EB10	Compressor heater
EB11	Condensation water trough heater
GQ1	Fan
RA1	Harmonic filter L1
RA2	Harmonic filter L2
RA3	Harmonic filter L3

Cooling components

EP1	Evaporator
EP2	Condenser
GQ10	Compressor
HS1	Drying filter
HN1	Liquid separator
HN2	Liquid receiver
HQ9	Particle filter
QN1	Expansion valve
QN2	Reversing valve

Miscellaneous

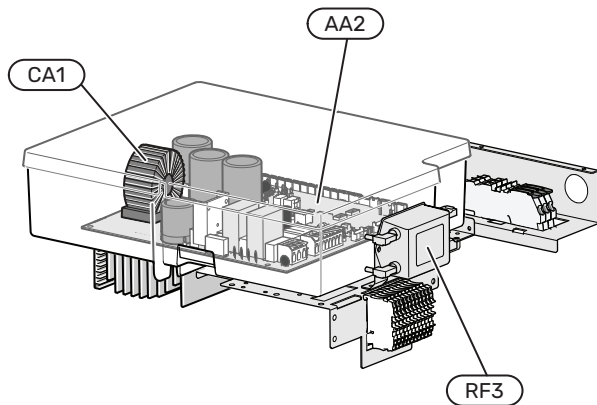
PZ1	Rating plate
PZ3	Serial number plate
UB1-UB4	Cable gland

Designations according to standard EN 81346-2.

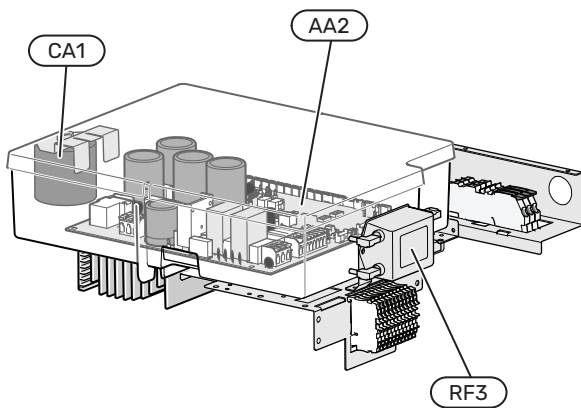
Distribution boxes

1x230 V

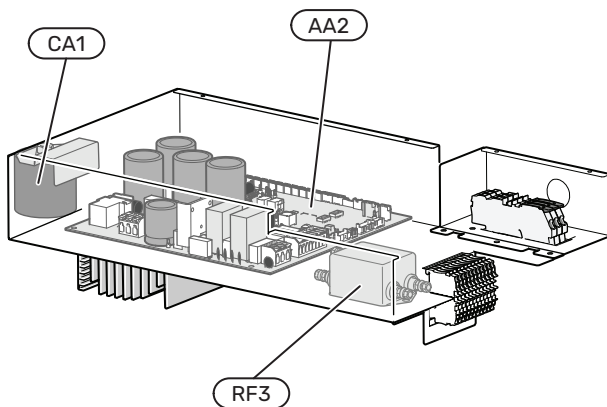
S2061-5



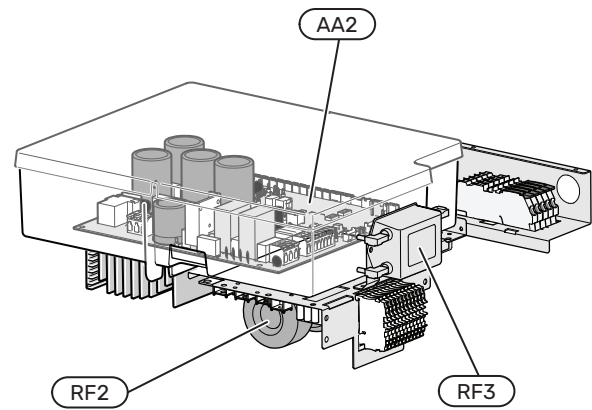
S2061-10, -12



S2061-16



3x400 V



Electrical components

AA2	Base card
CA1	Capacitor
RF2	EMC filter for inverter
RF3	EMC filter for incoming supply

Pipe connections

General

Pipe installation must be carried out in accordance with current norms and directives.

MINIMUM SYSTEM FLOW DEFROSTING



CAUTION!

An undersized climate system can result in damage to the product and lead to malfunctions.

The dimensions of the pipes between the indoor module and the heat pump should not be less than the recommended pipe diameter. The climate system must be dimensioned individually to provide the recommended system flows.

The installation must be dimensioned to provide the minimum defrosting flow at 100 % circulation pump operation.

Air/water heat pump	Minimum flow during defrosting 100% circulation pump operation (l/s)	Minimum recommended pipe dimension (DN)	Minimum recommended pipe dimension (mm)
S2061-5	0.17	20	22
S2061-10, -12, -16	0.17	25	28

WATER VOLUMES

To prevent short operating times, and to enable defrosting, a certain available water volume is required. For the optimum operation of S2061, a minimum available water volume is recommended, see table. This applies separately to heating and cooling systems.

S2061	-5	-10	-12	-16
Minimum volume, climate system	20 l	50 l	100 l	100 l

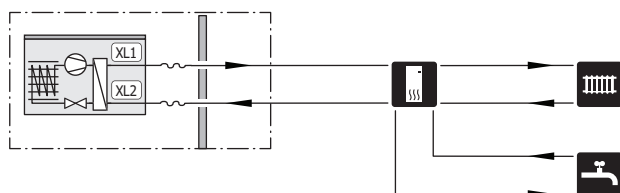


CAUTION!

The pipe installation must be flushed out before the heat pump is connected so debris cannot damage component parts.

SYSTEM DIAGRAM

Principle of operation with indoor module, hot water and climate system.



- XL1 Heating medium connection, supply (out from S2061)
- XL2 Heating medium connection, return (to S2061)

Symbol key

Symbol	Meaning
	Shut-off valve
	Tapping valve
	Circulation pump
	Expansion vessel
	Filterball
	Compressor
	Pressure gauge
	Safety valve
	Diverter valve/shunt
	Heat exchanger
	Indoor module
	Control module
	Air/water heat pump
	Heating system
	Domestic hot water
	Water heater/heat pump heater

Pipe coupling heating medium circuit



NOTE!

There is a difference between connection to a control module compared with connection to an indoor module.
See the Installer Manual for the indoor module/control module.

Install as follows:

- expansion vessel
- pressure gauge
- pressure relief valve
- drain valve

For draining the heat pump during prolonged power failures.

- charge pump
- shut-off valve

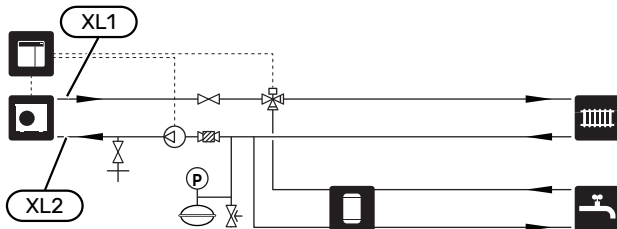
To facilitate any future servicing.

- enclosed filterball (QZ2)

The filterball must be installed indoors on the return line to the heat pump.

- diverter valve.

When connecting to the control module, and if the system has to be able to work with both the climate system and the heat pump heater.

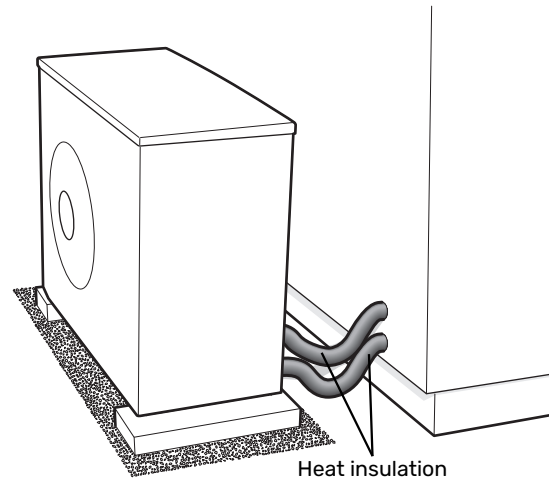


The image shows connection to the control module.

FLEXIBLE PIPE CONNECTION

All outdoor pipes must be insulated with at least 19 mm thick pipe insulation.¹

The supplied flexible hoses act as vibration dampers. The flexible pipes are fitted so an elbow is created, thus acting as vibration damping.



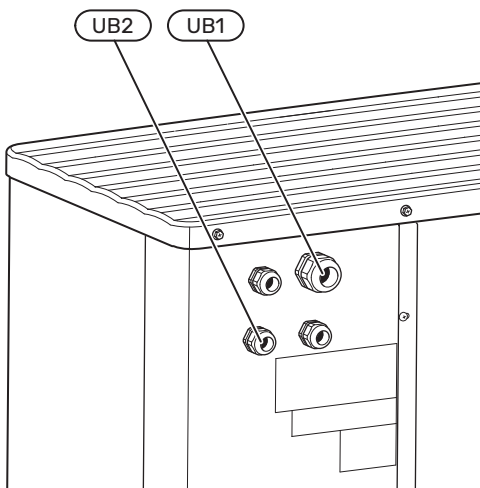
¹ Alternatively in accordance with country-specific requirements.

Electrical connections

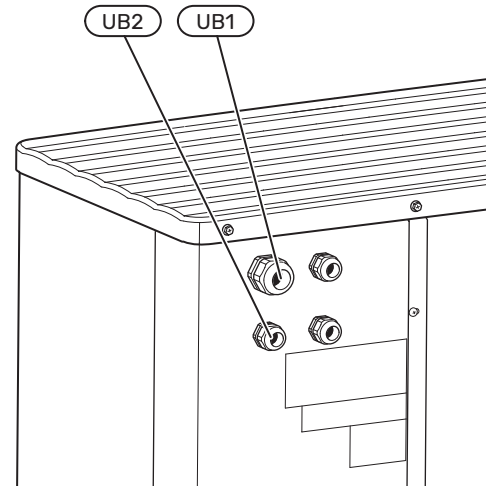
General

- Electrical installation and wiring must be carried out in accordance with national provisions.
- Prior to insulation testing the house wiring, disconnect the air/water heat pump installation.
- If a miniature circuit breaker is used, this must have at least triggering characteristic "C". See section "Technical specifications" for fuse size.
- S2061 must be installed via an isolator switch. The cable area has to be dimensioned based on the fuse rating used.
- S2061 must be fitted with a RCD (residual current device). A separate residual current device is recommended.
- The RCD must have a nominal tripping current of no more than 30 mA.
- Use a screened 3-core cable for communication with the heat pump. The minimum cable cross-section must be 0.75 mm².
- To prevent interference, communication cables to external connections must not be laid in the vicinity of high voltage cables.
- Connect the charge pump to the control module. See where the charge pump is to be connected in the Installer Manual for your control module.
- When routing a cable into S2061, the cable grommets (UB1) and (UB2) must be used.

S2061-5



S2061-10, -12, -16



CAUTION!

Electrical installation and any servicing must be carried out under the supervision of a qualified electrician. Turn off the power with the circuit breaker before servicing.



CAUTION!

Check the connections, main voltage and phase voltage before the product is started, to prevent damage to the heat pump electronics.



CAUTION!

The live external control must be taken into consideration when connecting.



CAUTION!

If the supply cable is damaged, only NIBE, its service representative or similar authorised person may replace it to prevent any danger and damage.



CAUTION!

Do not start the system before filling up with water. Components in the system could be damaged.

Accessibility, electrical connection

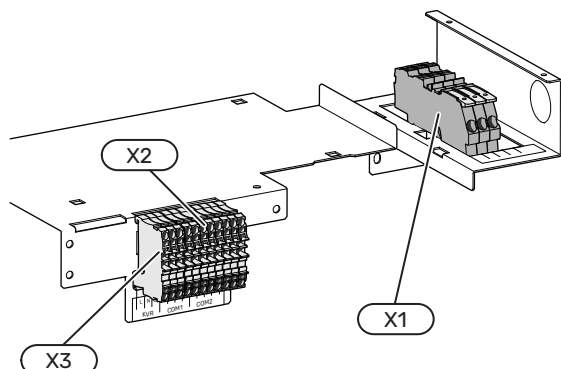
See section "Handling panels".

Connections

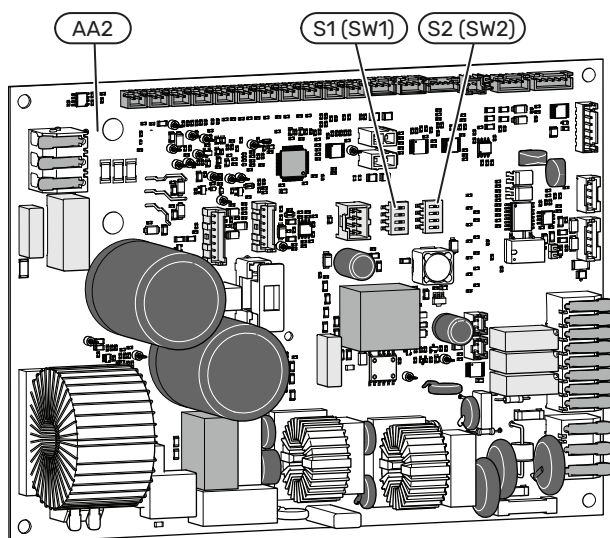
TERMINAL BLOCKS

The following components are used.

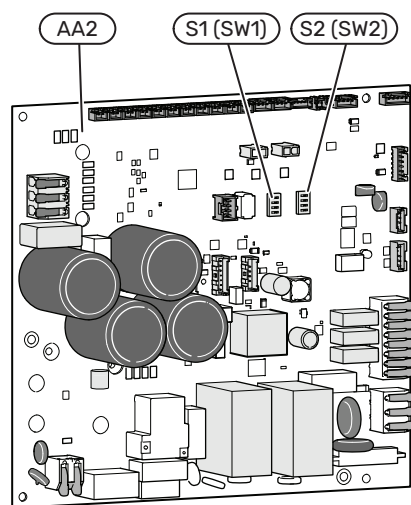
1x230 V



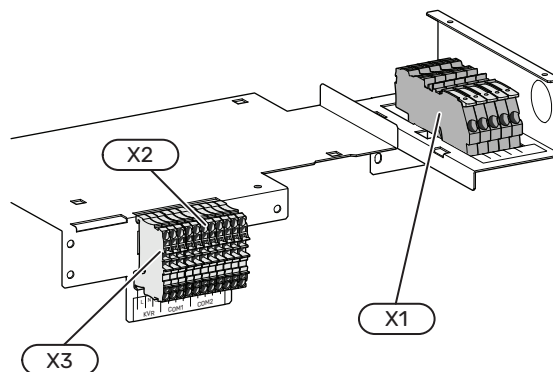
Base board (AA2) S2061-5



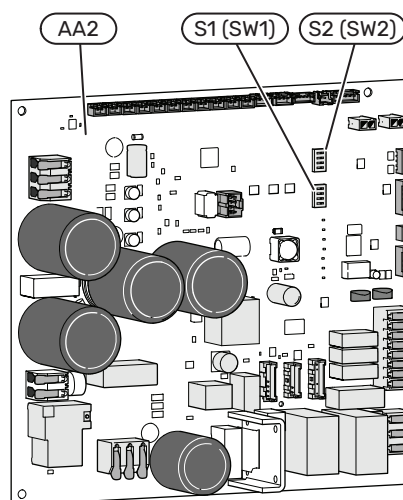
Base board (AA2) S2061-10, -12, -16



3x400 V



Base board (AA2)



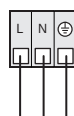
POWER CONNECTION

Supply voltage

The enclosed cable (length 1.8 m) for incoming electricity is connected to terminal block X1.

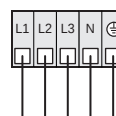
1x230 V

X1



3x400 V

X1

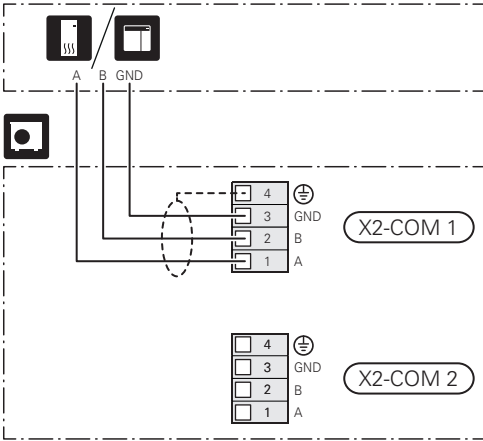


COMMUNICATION

For connection of indoor module / control module, see relevant manual on nibe.eu.

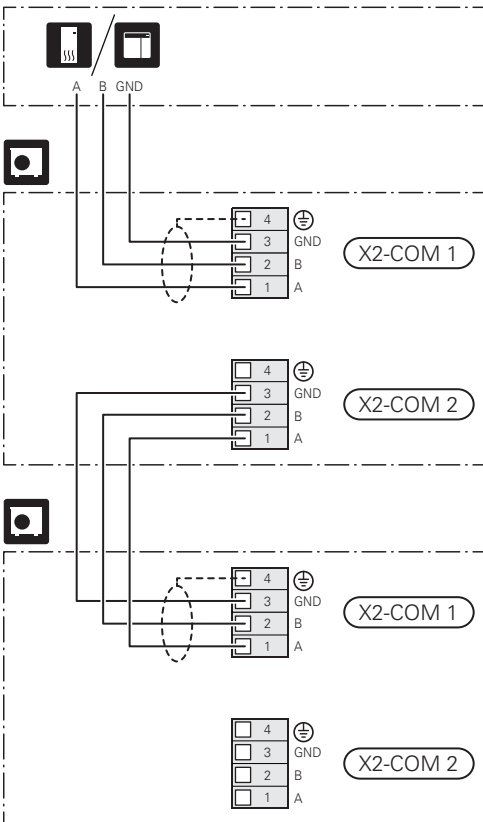
Cable routing, communication

1. Connect the communication cable to terminal block X2:1 (A), X2:2 (B) and X2:3 (GND).
2. Connect the cable's screen to terminal block X2:4 (PE).



Cascade connection

1. Connect terminal block X2-COM 2 with the next heat pump's terminal block X2-COM 1.
2. Connect the cable's screen to X2:4 (PE) in each S2061.



DIP switch

S2061 is equipped with DIP switches (S1 (SW1)), (S2 (SW2)) on the base board (AA2).



CAUTION!

Only change the DIP switch when S2061 is not powered up.

Cascade connection

In installations with multiple heat pumps, each heat pump must have a unique address, which is set with the DIP switch (S1 (SW1)).

Heat pump	Position (1 / 2 / 3 / 4)
1 (EB101)	off / off / off / off
2 (EB102)	on / off / off / off
3 (EB103)	off / on / off / off
4 (EB104)	on / on / off / off
5 (EB105)	off / off / on / off
6 (EB106)	on / off / on / off
7 (EB107)	off / on / on / off
8 (EB108)	on / on / on / off

Cooling

S2061 can supply cooling with cooling supply down to +7°C.

To enable cooling operation, the DIP switch (S2 (SW2)) must be set.

Function	Position (1)	Default setting
Permits cooling	on	off

Commissioning and adjusting

Preparations

COMPRESSOR HEATER

S2061 is equipped with a compressor heater that heats the compressor before start-up and when the compressor is cold.

Filling

Fill the heating system with water to the required pressure. The heat pump is equipped with an automatic vent valve for heating medium (QM20), which closes when the heat pump is filled with liquid.



CAUTION!

Do not add any antifreeze, such as glycol, as this will affect the operation of the internal safety devices.

Venting

1. The heat pump is vented automatically using the vent valve for heating medium (QM20). The vent valve closes automatically when the valve housing has been vented and filled with liquid.
2. Vent the externally installed circulation pump, if present.
3. Keep topping up and venting until all air has been removed and the pressure is correct.

Commissioning



CAUTION!

Do not start S2061 if there is a risk that the water in the system has frozen.



CAUTION!

Do not start any electrical work until at least two minutes after cutting the power.

1. Check that the communication cable between S2061 and the indoor module/control module is connected.
2. Set the DIP switch (S2 (SW2)), as described in section "Cooling", if cooling operation is desired.
3. Power-up S2061 and the indoor module/control module.
4. Adjust the charge flow according to size. See also section "Adjustment, charge flow".
5. Follow the instructions in the start guide in the indoor module's/control module's display.
6. Fill in "Inspection of the installation", in section "Important information".

The live external control must be taken into consideration when connecting.

Adjustment, charge flow

For correct function of the heat pump over the entire year, the charge flow must be correctly adjusted.

If an NIBE indoor module or accessory-controlled charge pump is used for the control module, the control tries to maintain an optimal flow across the heat pump.

Adjustment may be required; above all, for charging a separate heat pump heater. It is therefore recommended to have the option of adjusting the flow across the heat pump heater using a trim valve.

1. Recommendation if there is insufficient hot water and information message "high condenser out" during hot water charging: increase the flow
2. Recommendation if there is insufficient hot water and information message "high condenser in" during hot water charging: reduce the flow

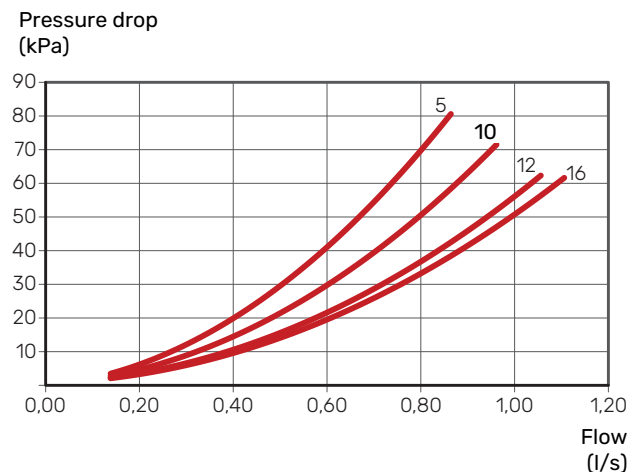
Charge pump

The charge pump (not included in the product) is powered and controlled from the indoor module/control module. It has a built-in frost protection function and, for this reason, must not be switched off when there is a risk of freezing.

At outdoor temperatures below +2 °C, the charge pump runs periodically, to prevent the water from freezing in the charge circuit. The function also protects against excess temperatures in the charge circuit.

Pressure drop, heating medium side

The diagram shows the pressure drop on the heating medium side, including the gas separator.



Control

General

S2061 is equipped with an internal electronic controller that handles all functions necessary for operation of the heat pump, e. g. defrosting, stop at max/min temperature, connection of the compressor heater, and protective functions during operation.

The integrated control shows information via status-LEDs and can be used during servicing.

Under normal operating conditions the home owner does not need to have access to the controller.

S2061 communicates with the NIBE indoor module/control module, which means that all settings and measurement values from S2061 are adjusted and read off on the indoor module/control module.



NOTE!

The main product's software must be the latest version.

Activating S2061

S-SERIES

Settings for S2061 can be made via the start guide or directly in the menu system.

The main product's software must be the latest version.

Start guide

The start guide appears upon first start-up after heat pump installation, but is also found in menu 7.7.

Menu system

If you do not make all settings via the "Start guide", or if you need to change any of the settings, you can do this in the menu system.

Menu 7.3.2 - Installed heat pump

Here, you make specific settings for the installed heat pump.

Menu 7.3.2.1 - Heat pump settings

Here, you make settings that are specific for the installed heat pumps.

Silent mode permitted

Alternative: on/off

Max. frequency 1

Setting range: 25 Hz –

The setting range depends on the outdoor unit's size and sound requirements.

Max. frequency 2

Setting range: 25 Hz –

The setting range depends on the outdoor unit's size and sound requirements.

Compressor phase

Setting range 1 x 230 V: L1, L2, L3

Detect compressor phase

Alternative 1 x 230 V: on/off

Current limit

Alternative 1 x 230 V: on/off

Max. current

Setting range 1 x 230 V: 6 – 32 A

BlockFreq 1 and 2

Setting range, heating: 25 – 130 Hz

Detect compressor phase: This shows the phase in which the heat pump has been detected. Phase detection normally occurs automatically in connection with start-up of the indoor module/control module. This setting can be changed manually.

Current limitation: Here, you can set whether the function for current limitation will be activated for the outdoor unit. When the function is active, you can limit the value of the maximum current.

BlockFreq 1-2: Here, you can select the frequency ranges within which the outdoor unit is not permitted to work. This function can be used if certain compressor speeds cause disruptive noise in the house. The setting range varies depending on heat pump model and size.

Silent mode permitted: Here, you set whether silent mode will be activated for the heat pump. Note, it is now possible to schedule when silent mode will be active. The function should only be used for limited periods, because S2061 might not reach its dimensioned power.

F-SERIES

Settings for S2061 can be made via the start guide or directly in the menu system.

The main product's software must be the latest version.

Start guide

The start guide appears upon first start-up after heat pump installation, but is also found in menu 5.7.

Menu system

If you do not make all settings via the "Start guide", or if you need to change any of the settings, you can do this in the menu system.

Menu 5.11.1.1 - heat pump

Here, you make specific settings for the installed heat pump.

Silent mode permitted

Setting range: yes / no

Detect compressor phase

Setting range 1 x 230 V: off/on

Current limit

Setting range: 6 – 32 A

Factory setting: 32 A

blockFreq 1

Setting range: yes / no

blockFreq 2

Setting range: yes / no

Silent mode permitted: Here, you set whether silent mode will be activated for the heat pump. Please note that you now have the option to schedule when silent mode will be active.

The function should only be used for limited periods, because S2061 possibly may not reach its dimensioned output.

Detect compressor phase: This shows the phase in which the heat pump has been detected. Phase detection normally occurs automatically in connection with start-up of the indoor module/control module. This setting can be changed manually.

Current limitation: Here, you set whether the function for current limitation will be activated for the heat pump. When the function is active, you can limit the value of the maximum current.

BlockFreq 1: Here, you can select a frequency range within which the heat pump is not permitted to work. This function can be used if certain compressor speeds cause disturbing noise in the house.

BlockFreq 2: Here, you can select a frequency range within which the heat pump is not permitted to work.

Service

Service actions



CAUTION!

Servicing should only be carried out by persons with the necessary expertise.

When replacing components on S2061 only replacement parts from NIBE may be used.

DRAINING THE CONDENSER

In the event of a prolonged power failure or similar, for example, the condenser in S2061 may need to be drained of water.



CAUTION!

There may be some hot water, risk of scalding.

1. Close the externally installed shut-off valve and filter-ball.
2. Disconnect the heating medium connection, supply (XL1), and the heating medium connection, return (XL2).
3. Empty out the water, drain via the non-return valve (RM1).

TEMPERATURE SENSOR DATA

Data for ambient sensors (BT28)

Temperature (°C)	Resistance (kOhm)
-40	349.10
-30	181.60
-20	98.86
-10	56.05
0	32.97
10	20.00
20	12.51
30	8.04
40	5.31
50	3.59
60	2.48

Data for return line sensors (BT3), condenser sensors supply (BT12), discharge sensors (BT14), liquid line sensors (BT15), evaporator sensors (BT16.1/BT16.2), suction gas sensors (BT17) and evaporation sensors (BT39)

Temperature (°C)	Resistance (kOhm)	Voltage (VDC)
-10	56.20	3.047
0	33.02	2.889
10	20.02	2.673
20	12.51	2.399
30	8.045	2.083
40	5.306	1.752
50	3.583	1.426
60	2.467	1.136
70	1.739	0.891
80	1.246	0.691

Disturbances in comfort

In most cases, the indoor module / control module notes a malfunction and indicates this with alarms and presents action instructions in the display.

Troubleshooting



CAUTION!

In the event of action to rectify malfunctions that require work within screwed hatches, the incoming supply electricity must be isolated at the safety switch by or under the supervision of a qualified electrician.



NOTE!

Alarms are acknowledged on the indoor module / control module.

If the operational interference is not shown in the display the following tips can be used:

BASIC ACTIONS

Start by checking the following:

- All supply cables to the heat pump are connected.
- Group and main fuses of the accommodation.
- The property's earth circuit breaker.
- The heat pump's RCD.
- The heat pump's fuse / automatic protection. (FC1 / FB1, FB1 only if KVR is installed.)
- That the air flow to S2061 is not blocked by foreign objects.
- That S2061 does not have any external damage.

S2061 DOES NOT START

- There is no demand.
 - The indoor module/control module does not call on heating, cooling or hot water.
- Compressor blocked due to the temperature conditions.
 - Wait until the temperature is within the product's working range.
- Minimum time between compressor starts has not been reached.
 - Wait for at least 30 minutes and then check if the compressor has started.
- Alarm tripped.
 - Follow the display instructions.

S2061 NOT COMMUNICATING

- Check that the addressing of S2061 is correct.
- Check that the communication cable is correctly connected and working.

LOW HOT WATER TEMPERATURE OR A LACK OF HOT WATER

This part of the troubleshooting chapter only applies if the heat pump is docked to the heat pump heater or indoor module.

- Large hot water consumption.
 - Wait until the hot water has heated up.
- Incorrect hot water settings in indoor module/control module.
 - See the Installer Manual for the indoor module/control module.
- Clogged filterball.
 - Switch off the system. Check and clean the filterball.

LOW ROOM TEMPERATURE

- Closed thermostats in several rooms.
 - Set the thermostats to max in as many rooms as possible.
- Incorrect settings in the indoor module/control module.
 - See the Installer Manual for the indoor module/control module.
- Air-filled radiators/underfloor heating coils.
 - Bleed the system.

HIGH ROOM TEMPERATURE

- Incorrect settings in the indoor module/control module.
 - See the Installer Manual for the indoor module/control module.

ICE BUILD-UP IN THE FAN, GRILLE AND/OR FAN CONE

- Activate "fan de-icing" in the indoor module/control module. Alternatively "continuous fan de-icing" if the problem recurs.
- Check that the air flow across the evaporator is correct.

LARGE AMOUNT OF WATER BELOW S2061

- The accessory KVR is required.
- If KVR is installed, check that the water drainage can flow freely.

CONDENSATE DRIP TRAY HEATER DOES NOT START

The condensate drip tray heater is only activated in connection with defrosting. It remains active for up to 5 minutes after completion of defrosting.

- The condensate drip tray heater is not active.
 - Check that defrosting is in progress or has recently been completed.

Alarm list

Alarm F-series	Alarms S-series	Alarm text on the display	Description existing alarm	May be due to
156 (81)	212	Low LP cooling operation	During cooling operation or defrosting, the low pressure in the cooling circuit has reached a critical value 5 times in the space of 240 minutes.	Poor system flow. Undersized cooling system. Incorrectly set cooling curve.
162 (69)	215	High temperature condenser supply (BT12)	The supply temperature sensor after the condenser (BT12) has reached the maximum permitted temperature in heating or hot water.	Incorrectly set heating curve. Low system flow. Undersized heating system.
224 (181)	233	Fan alarm in outd air heat pump	No feedback signal from the fan 5 times within 240 minutes.	Fan blocked or not connected. Defective fan motor.
228 (2)	236	Defrosting fault	10 failed consecutive defrostings.	System temperature and/or flow too low. Insufficient available system volume. Significant wind effect.
230 (79)	238	High discharge	The discharge sensor (BT14) has reached a temperature of 115 °C 3 times within 240 minutes.	Disruption in the refrigerant circuit. Lack of refrigerant.
266 (220)	256	Low refrig volume	The refrigerant volume is low.	Leakage.
343 (71)	293	Low temp water out	Condenser sensor, supply line (BT12) has reached the lowest permitted temperature during cooling operation or defrosting.	Incorrectly set cooling curve. Low system flow. Undersized cooling system.
344 (73)	294	Recurring low pressure	Recurring low pressure 5 times within 240 minutes.	Defective low-pressure sensor (BP8). Defective base board (AA2) in the heat pump. Lack of refrigerant. Blocked expansion valve. Disruption in the refrigerant circuit.
346 (75)	295	Recurring high pressure	The high pressure switch (BP1) has been activated 5 times within 240 minutes.	Clogged particle filter, air or stoppage in the heating medium flow. Poor system pressure. Defective high pressure switch (BP1). The expansion valve is not connected correctly. Defective base board (AA2) in the heat pump. Defective circulation pump.
401 (207)	314	Undefined fault	Initiation fault, inverter. Configuration file missing. Charge error configuration.	The base board (AA2) is not compatible.
429 (111)	324	Safety stop, inverter	Software fault 3 times within 120 minutes.	Disruption in supply voltage. Defective base board (AA2).
431 (113)	325	High mains voltage	Overvoltage.	Disruption in supply voltage.
433 (115)	326	Inverter, under-voltage	Phase voltage to inverter too low.	Low supply voltage or phase loss.
437 (119)	328	Mains disturbance	Temporary fault in inverter.	Disruption in supply voltage.
441 (123)	330	Safety stop, inverter	Overloading of incoming supply voltage 3 times within 120 minutes or continuously for 60 minutes.	Too high current to inverter. Low supply voltage.
443 (125)	331	Overheated inverter	The inverter has temporarily reached the maximum working temperature due to poor cooling 3 times within 120 minutes or continuously for 60 minutes.	Poor cooling of inverter. Defective base board (AA2).
445 (127)	332	Inverter protection	The inverter detects a temporary fault within 10 seconds following compressor start, 5 consecutive times within 120 minutes or continuously for 60 minutes.	Disruption in supply voltage. Defective compressor.

Alarm F-series	Alarms S-series	Alarm text on the display	Description existing alarm	May be due to
447 (129)	333	Phase drop	Compressor phase is missing, 3 times within 2 hours or continuously for 60 minutes.	Disruption in supply voltage. Incorrectly connected compressor cable.
449 (131)	334	Failed compressor start	Zero rpm, failed compressor start 3 times within 120 minutes or continuously for 60 minutes.	Fault in compressor (GQ10) Defective base board (AA2).
453 (135)	336	High current load, compr.	High current load in compressor 3 times within 120 minutes or continuously for 60 minutes.	Disruption in supply voltage. Poor heating medium flow. Defective compressor (GQ10).
744 (49)	538	Sens flt BP8 outd air ht pump	Sensor fault on low-pressure sensor (BP8) in the heat pump. BP8 signal < 0.5V Continuous alarm from the heat pump for 30 seconds, or 2 alarms within 120 minutes.	Low-pressure sensor (BP8) is not connected to the base board (AA2). The cable to the low-pressure sensor (BP8) is damaged.
742 (51)	539	Sens flt BP9 outd air ht pump	Sensor fault on high-pressure sensor (BP9) in the heat pump. Continuous alarm from the heat pump for 5 seconds.	High-pressure sensor (BP9) is not connected to the base board (AA2). The cable to the high-pressure sensor (BP9) is damaged.
746 (45)	536	Sens flt BT28 outd air ht pump	Sensor fault on the ambient sensor (BT28) in the heat pump. Continuous alarm from the heat pump for 5 seconds.	Open-circuit or short-circuit on sensor input. Defective ambient sensor (BT28). Defective base board (AA2).
748 (43)	535	Sens flt BT17 outd air ht pump	Sensor fault on the suction gas sensor (BT17) in the heat pump. Continuous alarm from the heat pump for 5 seconds.	Open-circuit or short-circuit on sensor input. Defective suction gas sensor (BT17). Defective base board (AA2).
750 (33)	530	Sens flt BT3 outd air ht pump	Sensor fault on the return line sensor (BT3) in the heat pump. Continuous alarm from the heat pump for 5 seconds.	Open-circuit or short-circuit on sensor input. Defective return line sensor (BT3). Defective base board (AA2).
752 (41)	534	Sens flt BT16 outd air ht pump	Sensor fault on one of the evaporator sensors (BT16_1 / BT16_2) in the heat pump. Continuous alarm from the heat pump for 5 seconds.	Open-circuit or short-circuit on sensor input. Defective evaporator sensor (BT16.1 or BT16.2). Defective base board (AA2).
754 (39)	533	Sens flt BT15 outd air ht pump	Sensor fault on the liquid line sensor (BT15) in the heat pump. Continuous alarm from the heat pump for 5 seconds.	Open-circuit or short-circuit on sensor input. Defective liquid line sensor (BT15). Defective control board.
756 (37)	532	Sens flt BT14 outd air ht pump	Sensor fault, discharge sensor (BT14) in the heat pump. 3 alarms within 150 minutes.	Open-circuit or short-circuit on sensor input. Defective discharge sensor (BT14). Defective base board (AA2).
758 (35)	531	Sens flt BT12 outd air ht pump	Sensor fault on the condenser sensor, supply line (BT12) in the heat pump. Continuous alarm from the heat pump for 5 seconds.	Open-circuit or short-circuit on sensor input. Defective supply temperature sensor after condenser (BT12). Defective base board (AA2).
760 (217)	683	Low water flow	System flow below the threshold value for more than 15 seconds (only for heat pumps with flow meters).	Clogged particle filter, air or stoppage in the heating medium flow. Defective circulation pump.
761 (219)	684	Sensor BT39 outside working range	Sensor fault on the evaporation sensor (BT39) in the heat pump. Continuous alarm from the heat pump for 5 seconds.	Open-circuit or short-circuit on sensor input. Defective evaporation sensor (BT39). Defective base board (AA2).

Accessories

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

Not all accessories are available on all markets.

CONDENSATION WATER PIPE KVR

Condensation water pipe with heating cable.

KVR 14-10

1 metres

Part no. 267 019

KVR 14-30

3 metres

Part no. 267 020

KVR 14-60

6 metres

Part no. 267 021

STAND AND BRACKETS

Ground stand GSU 50

For the installation of S2061 on the ground.

Part no. 267 018

Wall rack BAU 50

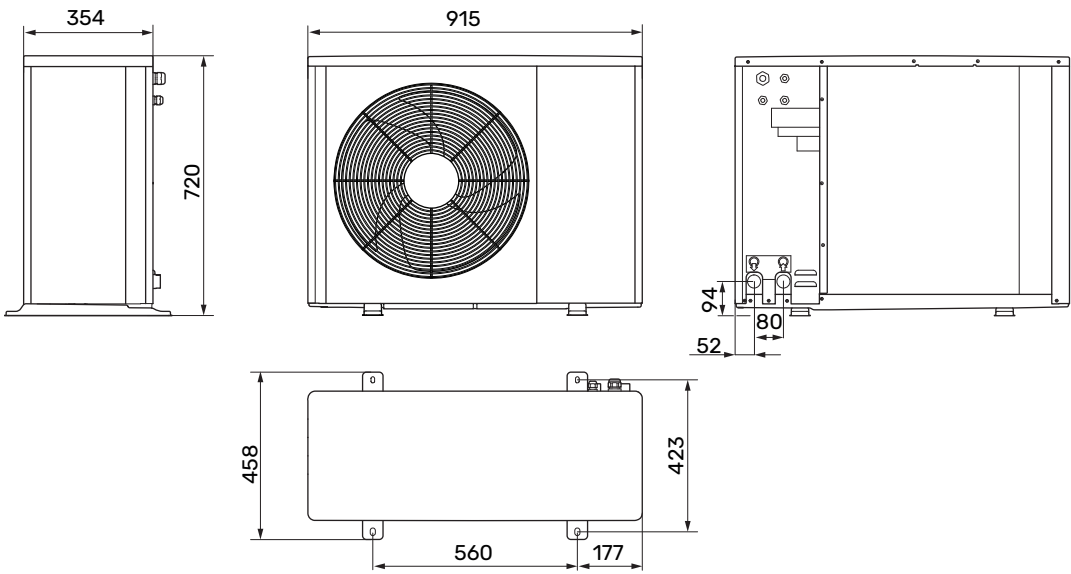
Wall mounting of S2061.

Part no. 267 017

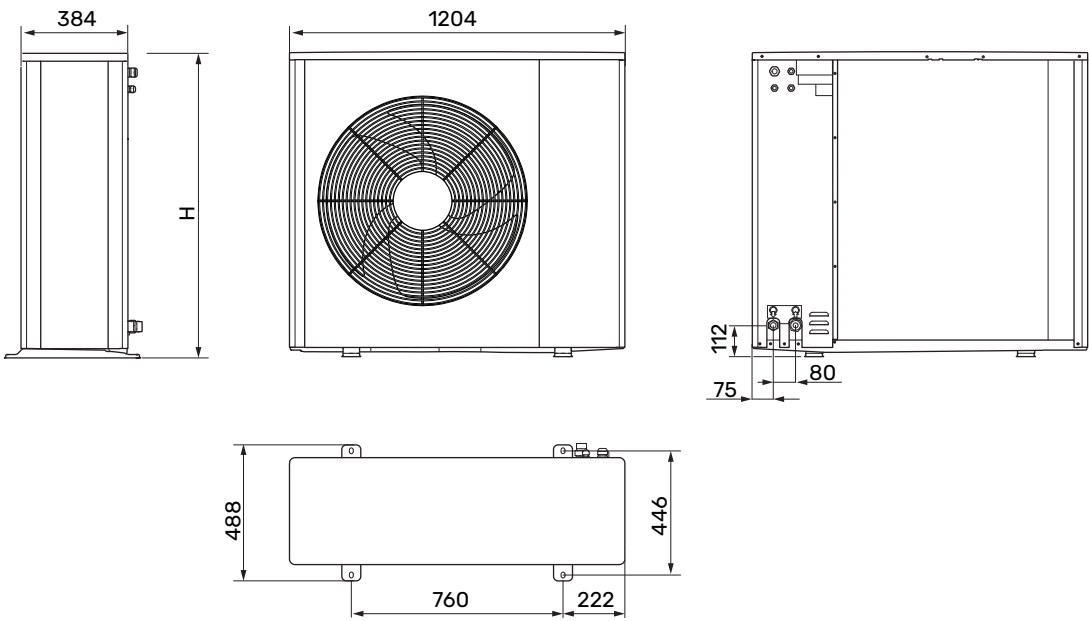
Technical data

Dimensions

S2061-5

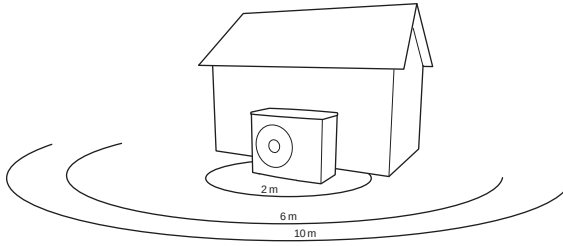


S2061-10, -12, -16



Height (H): See section "Technical specifications".

Sound levels



S2061 is usually placed next to a house wall, which gives a directed sound distribution that has to be taken into consideration. Accordingly, when setting up, you should always attempt to select the side that faces the least sound-sensitive neighbouring area.

The sound pressure levels are further affected by walls, bricks, differences in ground level, etc and should therefore only be seen as guide values.

S2061 adjusts the fan speed depending on the ambient temperature and evaporation temperature.

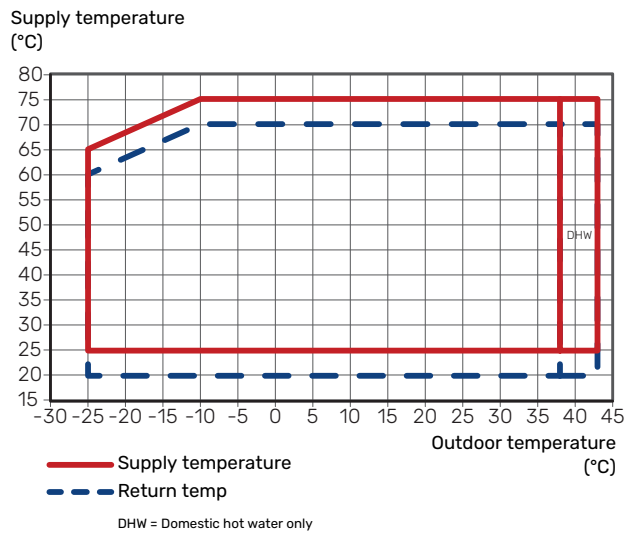
		Sound power ¹	Sound pressure at distance (m) ²									
			1	2	3	4	5	6	7	8	9	10
S2061-5	Nominal sound value	49	44	38	35	32	30	29	28	26	25	24
	Max. sound value	58	53	47	44	41	39	38	37	35	34	33
	Max. sound value, silent mode	51	46	40	37	34	32	31	29	28	27	26
S2061-10	Nominal sound value	53	48	42	39	36	34	33	31	30	29	28
	Max. sound value	64	59	53	50	47	45	44	42	41	40	39
	Max. sound value, silent mode	50	45	39	35	33	31	29	28	27	26	25
S2061-12	Nominal sound value	53	48	42	38	36	34	32	31	30	29	28
	Max. sound value	64	59	53	50	47	45	44	42	41	40	39
	Max. sound value, silent mode	55	50	44	40	38	36	34	33	32	31	30
S2061-16	Nominal sound value	51	46	40	37	34	32	31	29	28	27	26
	Max. sound value	65	60	54	51	48	46	45	43	42	41	40
	Max. sound value, silent mode	54	49	43	39	37	35	33	32	31	30	29

¹ Sound power level, $L_w(A)$, according to EN12102

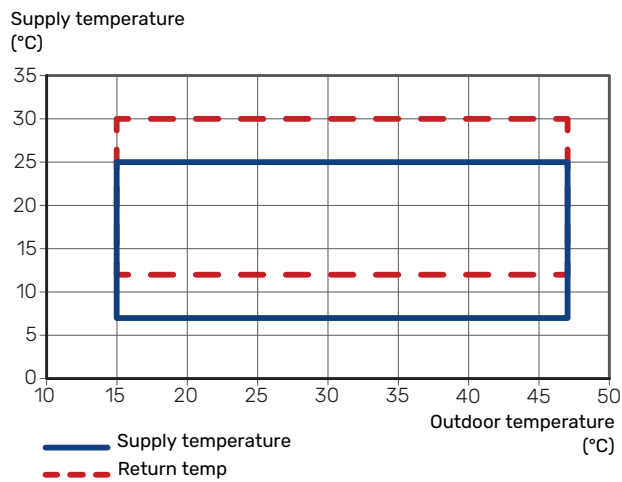
² Sound pressure calculated according to directivity factor $Q=4$

Technical specifications

WORKING RANGE, HEATING



WORKING RANGE, COOLING



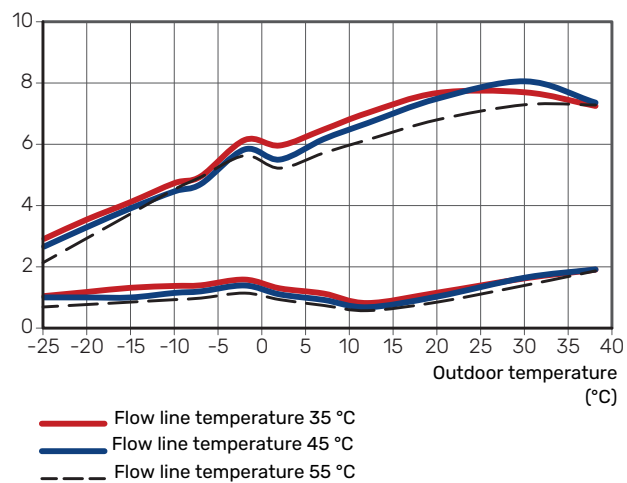
During shorter time it is allowed to have lower working temperatures on the water side, e.g. during start up.

POWER DURING HEATING OPERATION

Maximum and minimum capacity during continuous operation. Defrosting is not included.

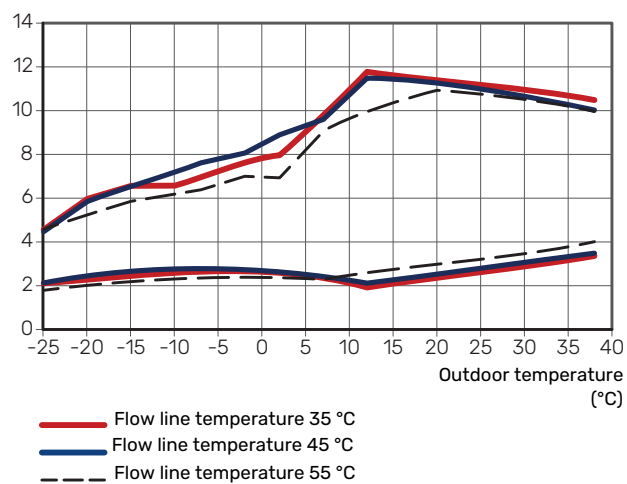
S2061-5

Heating output
(kW)



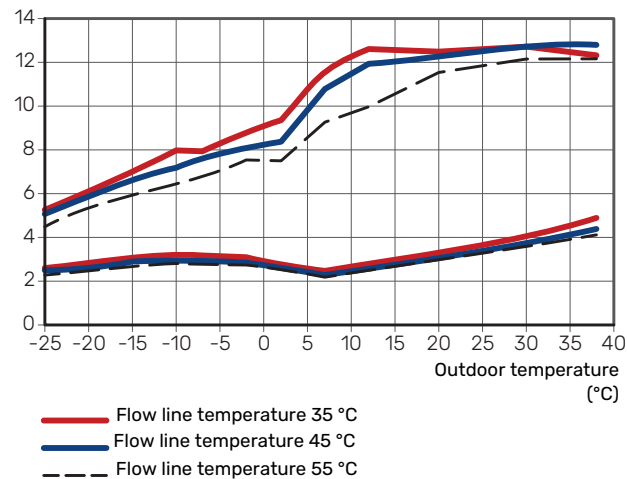
S2061-10

Heating output
(kW)



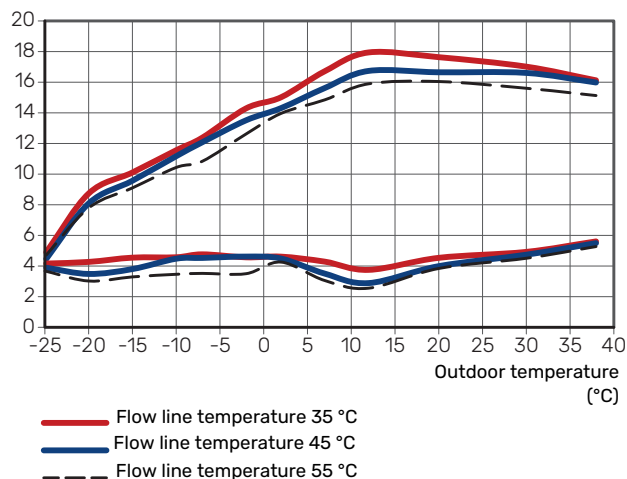
S2061-12

Heating output
(kW)



S2061-16

Heating output
(kW)

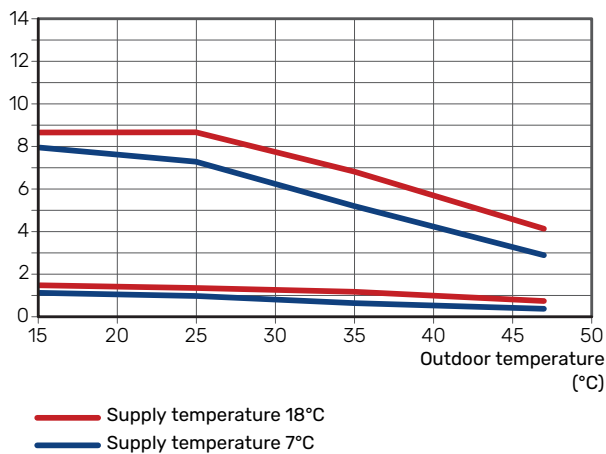


POWER DURING COOLING OPERATION

Maximum and minimum capacity during continuous operation.

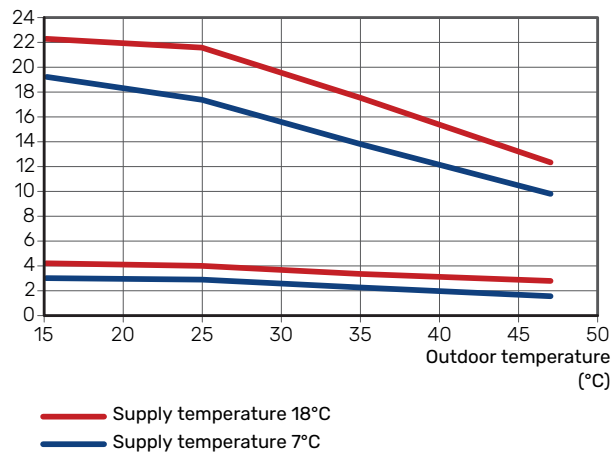
S2061-5

Cooling output
(kW)



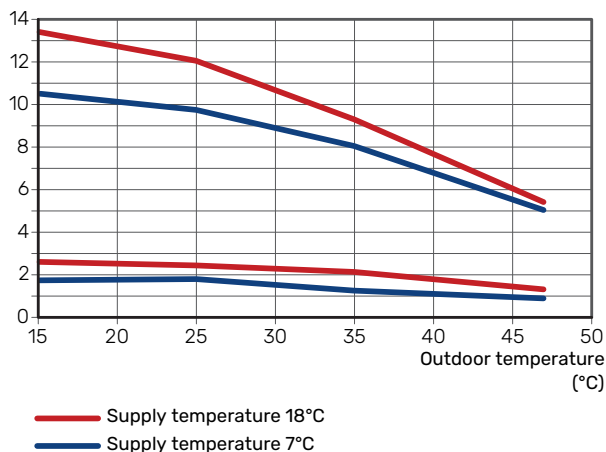
S2061-16

Cooling output
(kW)



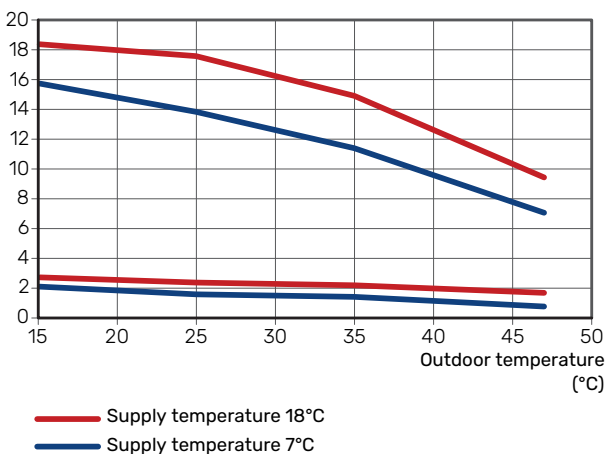
S2061-10

Cooling output
(kW)



S2061-12

Cooling output
(kW)



TECHNICAL SPECIFICATIONS

1x230 V

S2061		5	10	12	16
Output data according to EN 14 511, partial load ¹					
Heating	-7 / 35 °C	4.29 / 1.70 / 2.53	7.48 / 2.91 / 2.57	9.19 / 3.22 / 2.85	11.40 / 4.19 / 2.72
Capacity / power input / COP (kW/kW/-) at nominal flow	2 / 35 °C	3.55 / 0.91 / 3.91	5.97 / 1.61 / 3.70	7.08 / 1.74 / 4.06	9.52 / 2.40 / 3.96
Outdoor temp: / Supply temp.	2 / 45 °C	3.41 / 1.03 / 3.31	5.65 / 1.81 / 3.12	6.75 / 2.05 / 3.29	8.63 / 2.78 / 3.10
	7 / 35 °C	3.91 / 0.76 / 5.12	7.17 / 1.48 / 4.86	7.55 / 1.55 / 4.86	10.46 / 2.09 / 5.00
	7 / 45 °C	3.65 / 0.93 / 3.91	6.59 / 1.73 / 3.82	7.14 / 1.87 / 3.83	10.03 / 2.47 / 4.05
Cooling	35 / 7 °C	4.06 / 1.30 / 3.12	6.92 / 2.24 / 3.09	9.57 / 2.99 / 3.20	13.02 / 4.05 / 3.22
Capacity / power input / EER (kW/kW/-) at maximum flow	35 / 18 °C	5.28 / 1.26 / 4.19	8.39 / 2.21 / 3.80	11.88 / 2.93 / 4.05	15.30 / 3.55 / 4.31
Outdoor temp: / Supply temp.					
Maximum capacity					
Maximum capacity, heating, at A7W35 without defrosting	kW	6.50	11.39	12.46	16.74
Maximum capacity, heating, at A2W55 with / without defrosting	kW	4.75 / 5.24	7.01 / 7.99	9.46 / 9.46	12.38 / 13.97
Maximum capacity, heating, at A-7W35 without defrosting	kW	4.97	8.26	9.19	12.38
SCOP according to EN 14825					
Nominal heat output (P _{designh}) average climate 35 °C / 55 °C (Europe)	kW	5.10 / 4.60	7.50 / 6.50	10.50 / 9.00	13.50 / 12.50
Nominal heat output (P _{designh}) cold climate 35 °C / 55 °C	kW	4.80 / 4.60	8.10 / 7.50	9.70 / 9.20	12.80 / 12.50
Nominal heat output (P _{designh}) warm climate 35 °C / 55 °C	kW	5.50 / 4.70	7.70 / 7.10	10.50 / 8.50	12.80 / 12.00
SCOP average climate, 35 °C / 55 °C (Europe)		4.75 / 3.37	4.78 / 3.78	4.78 / 3.82	5.15 / 3.97
SCOP cold climate, 35 °C / 55 °C		4.14 / 3.31	4.45 / 3.49	4.29 / 3.42	4.49 / 3.55
SCOP warm climate, 35 °C / 55 °C		6.22 / 3.92	6.60 / 4.75	6.79 / 4.96	6.67 / 5.00
Energy rating, average climate ²					
The product's room heating efficiency class 35 °C / 55 °C ³		A+++ / A++	A+++ / A++	A+++ / A+++	A+++ / A+++
The system's room heating efficiency class 35 °C / 55 °C ⁴		A+++ / A++	A+++ / A+++	A+++ / A+++	A+++ / A+++
Electrical data					
Rated voltage		230 V ~ 50 Hz	230 V ~ 50 Hz	230 V ~ 50 Hz	230 V ~ 50 Hz
Rated current, heat pump	A _{rms}	10	12.5	16	22
Max. power, fan	W	42	46	121	195
Fuse	A _{rms}	13	16	20	25
Enclosure class		IP24			
Residual current device (RCD), type		F			
Refrigerant circuit					
Type of refrigerant		R290			
GWP refrigerant		0.02			
Filling amount	kg	0.50	0.80	1.10	1.60
Type of compressor		Rotary compressor			
CO ₂ -equivalent (The cooling circuit is hermetically sealed.)	kg	0.010	0.016	0.022	0.032
Cut-out value pressure switch HP (BP1)	MPa (bar)	3.0 (30.0)			
Difference pressostat HP	MPa (bar)	0.7 (7)			
Airflow					
Max airflow	m ³ /h	2,500	3,350	5,600	6,150
Working area					
Min./max. air temperature, heating	°C	-25 / 38			
Min./max. air temperature, cooling	°C	15 / 47			
Defrosting system		Reverse cycle			
Heating medium circuit					
Max system pressure heating medium	MPa (bar)	0.30 (3.0)			
Cut-off pressure, heating medium	MPa (bar)	0.25 (2.5)			
Recommended flow interval, heating operation	l/s	0.11 – 0.30	0.11 – 0.53	0.11 – 0.56	0.16 – 0.75
Recommended flow interval, cooling operation	l/s	0.11 – 0.33	0.11 – 0.44	0.11 – 0.72	0.16 – 0.84
Min. design flow, defrosting (100% pump speed)	l/s	0.17			
Min./max. HM temp, continuous operation	°C	25 / 75			
Min./max. HM temp, continuous operation, cooling	°C	7 / 25			
Connection heating medium S2061		G1" external thread			
Connection heating medium flex pipe		G1" external thread			
Min. recommended pipe dimension (system)	DN (mm)	25 (28)			

S2061		5	10	12	16
Dimensions and weight					
Width	mm	915	1,204	1,204	1,204
Depth	mm	458	488	488	488
Height	mm	720	892	1,103	1,397
Weight	kg	68	96	113	140
Miscellaneous					
Part no.		064 376	064 377	064 375	064 373

- ¹ Power statements including defrosting according to EN 14511 at heating medium supply corresponding to DT=5 K at 7 / 45.
- ² The reported efficiency of the package also takes the controller into account. If an external supplementary boiler or solar heating is added to the package, the overall efficiency of the package should be recalculated.
- ³ Scale for the product's efficiency class room heating: A+++ to D. Control module model SMO S.
- ⁴ 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. Control module model SMO S.

3x400 V

S2061		10	12	16
Output data according to EN 14 511, partial load ¹				
Heating	-7 / 35 °C	7.48 / 2.91 / 2.57	9.19 / 3.22 / 2.85	11.40 / 4.19 / 2.72
Capacity / power input / COP (kW/kW/-) at nominal flow	2 / 35 °C	5.97 / 1.61 / 3.70	7.08 / 1.74 / 4.06	9.52 / 2.40 / 3.96
Outdoor temp: / Supply temp.	2 / 45 °C	5.65 / 1.81 / 3.12	6.75 / 2.05 / 3.29	8.63 / 2.78 / 3.10
	7 / 35 °C	8.36 / 1.73 / 4.83	12.61 / 2.68 / 4.71	15.90 / 3.53 / 4.50
	7 / 45 °C	6.59 / 1.73 / 3.82	7.14 / 1.87 / 3.83	10.03 / 2.47 / 4.05
Cooling	35 / 7 °C	6.92 / 2.24 / 3.09	9.42 / 3.01 / 3.13	13.02 / 4.05 / 3.22
Capacity / power input / EER (kW/kW/-) at maximum flow	35 / 18 °C	8.39 / 2.21 / 3.80	11.88 / 2.93 / 4.05	15.30 / 3.55 / 4.31
Outdoor temp: / Supply temp.				
Maximum capacity				
Maximum capacity, heating, at A7W35 without defrosting	kW	11.39	12.46	16.74
Maximum capacity, heating, at A2W55 with / without defrosting	kW	7.01 / 7.99	9.46 / 9.46	12.38 / 13.97
Maximum capacity, heating, at A-7W35 without defrosting	kW	8.26	9.19	12.38
SCOP according to EN 14825				
Nominal heat output (P _{designh}) average climate 35 °C / 55 °C (Europe)	kW	7.50 / 6.50	10.50 / 9.00	13.50 / 12.50
Nominal heat output (P _{designh}) cold climate 35 °C / 55 °C	kW	8.10 / 7.50	9.70 / 9.20	12.80 / 12.50
Nominal heat output (P _{designh}) warm climate 35 °C / 55 °C	kW	7.70 / 7.10	10.50 / 8.50	12.80 / 12.00
SCOP average climate, 35 °C / 55 °C (Europe)		4.78 / 3.78	4.78 / 3.82	5.15 / 3.97
SCOP cold climate, 35 °C / 55 °C		4.45 / 3.49	4.29 / 3.42	4.49 / 3.55
SCOP warm climate, 35 °C / 55 °C		6.60 / 4.75	6.79 / 4.96	6.67 / 5.00
Energy rating, average climate ²				
The product's room heating efficiency class 35 °C / 55 °C ³		A+++ / A++	A+++ / A+++	A+++ / A+++
The system's room heating efficiency class 35 °C / 55 °C ⁴		A+++ / A+++	A+++ / A+++	A+++ / A+++
Electrical data				
Rated voltage		400 V 3N ~ 50 Hz	400 V 3N ~ 50 Hz	400 V 3N ~ 50 Hz
Rated current, heat pump	A _{rms}	5	6	9
Max. power, fan	W	46	121	195
Fuse	A _{rms}	10	10	13
Enclosure class			IP24	
Residual current device (RCD), type			F	
Refrigerant circuit				
Type of refrigerant			R290	
GWP refrigerant			0.02	
Filling amount	kg	0.80	1.10	1.60
Type of compressor			Rotary compressor	
CO ₂ -equivalent (The cooling circuit is hermetically sealed.)	kg	0.016	0.022	0.032
Cut-out value pressure switch HP (BP1)	MPa (bar)		3.0 (30.0)	
Difference pressostat HP	MPa (bar)		0.7 (7)	
Airflow				
Max airflow	m ³ /h	3,350	5,600	6,150
Working area				
Min./max. air temperature, heating	°C		-25 / 38	
Min./max. air temperature, cooling	°C		15 / 47	
Defrosting system			Reverse cycle	
Heating medium circuit				
Max system pressure heating medium	MPa (bar)		0.30 (3.0)	
Cut-off pressure, heating medium	MPa (bar)		0.25 (2.5)	
Recommended flow interval, heating operation	l/s	0.11 – 0.53	0.11 – 0.56	0.16 – 0.75
Recommended flow interval, cooling operation	l/s	0.11 – 0.44	0.11 – 0.72	0.16 – 0.84
Min. design flow, defrosting (100% pump speed)	l/s		0.17	
Min./max. HM temp, continuous operation	°C		25 / 75	
Min./max. HM temp, continuous operation, cooling	°C		7 / 25	
Connection heating medium S2061			G1" external thread	
Connection heating medium flex pipe			G1" external thread	
Min. recommended pipe dimension (system)	DN (mm)		25 (28)	
Dimensions and weight				

S2061		10	12	16
Width	mm	1,204	1,204	1,204
Depth	mm	488	488	488
Height	mm	892	1,103	1,397
Weight	kg	104	121	148
Miscellaneous				
Part no.		064 374	064 372	064 371

- ¹ Power statements including defrosting according to EN 14511 at heating medium supply corresponding to $\Delta T=5$ K at 7 / 45.
- ² The reported efficiency of the package also takes the controller into account. If an external supplementary boiler or solar heating is added to the package, the overall efficiency of the package should be recalculated.
- ³ Scale for the product's efficiency class room heating: A+++ to D. Control module model SMO S.
- ⁴ 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. Control module model SMO S.

Energy labelling

INFORMATION SHEET

Supplier		NIBE			
Model		S2061-5 1x230 V	S2061-10 1x230 V	S2061-12 1x230 V	S2061-16 1x230 V
Temperature application	°C	35 / 55	35 / 55	35 / 55	35 / 55
Seasonal space heating energy efficiency class, average climate		A+++ / A++	A+++ / A++	A+++ / A+++	A+++ / A+++
Rated heat output (P _{designh}), average climate	kW	5 / 5	8 / 7	11 / 9	14 / 13
Annual energy consumption space heating, average climate	kWh	2,216 / 2,816	3,241 / 3,556	4,540 / 4,870	5,421 / 6,507
Seasonal space heating energy efficiency, average climate	%	187 / 132	188 / 148	188 / 150	203 / 156
Sound power level L _{WA} indoors	dB	-	-	-	-
Rated heat output (P _{designh}), cold climate	kW	5 / 5	8 / 8	10 / 9	13 / 13
Rated heat output (P _{designh}), warm climate	kW	6 / 5	8 / 7	11 / 9	13 / 12
Annual energy consumption space heating, cold climate	kWh	2,856 / 3,429	4,489 / 5,297	5,574 / 6,636	7,024 / 8,689
Annual energy consumption space heating, warm climate	kWh	1,181 / 1,603	1,558 / 1,997	2,065 / 2,290	2,564 / 3,210
Seasonal space heating energy efficiency, cold climate	%	163 / 129	175 / 137	169 / 134	177 / 139
Seasonal space heating energy efficiency, warm climate	%	246 / 154	261 / 187	269 / 195	264 / 197
Sound power level L _{WA} outdoors	dB	49	53	53	51

Compressor motor is exempted from EU 2019/1781 due to that motors completely integrated into compressor and energy performance cannot be tested independently from the product.

Supplier		NIBE		
Model		S2061-10 3x400 V	S2061-12 3x400 V	S2061-16 3x400 V
Temperature application	°C	35 / 55	35 / 55	35 / 55
Seasonal space heating energy efficiency class, average climate		A+++ / A++	A+++ / A+++	A+++ / A+++
Rated heat output (P _{designh}), average climate	kW	8 / 7	11 / 9	14 / 13
Annual energy consumption space heating, average climate	kWh	3,241 / 3,556	4,540 / 4,870	5,421 / 6,507
Seasonal space heating energy efficiency, average climate	%	188 / 148	188 / 150	203 / 156
Sound power level L _{WA} indoors	dB	-	-	-
Rated heat output (P _{designh}), cold climate	kW	8 / 8	10 / 9	13 / 13
Rated heat output (P _{designh}), warm climate	kW	8 / 7	11 / 9	13 / 12
Annual energy consumption space heating, cold climate	kWh	4,489 / 5,297	5,574 / 6,636	7,024 / 8,689
Annual energy consumption space heating, warm climate	kWh	1,558 / 1,997	2,065 / 2,290	2,564 / 3,210
Seasonal space heating energy efficiency, cold climate	%	175 / 137	169 / 134	177 / 139
Seasonal space heating energy efficiency, warm climate	%	261 / 187	269 / 195	264 / 197
Sound power level L _{WA} outdoors	dB	53	53	51

Compressor motor is exempted from EU 2019/1781 due to that motors completely integrated into compressor and energy performance cannot be tested independently from the product.

DATA FOR ENERGY EFFICIENCY OF THE PACKAGE

Model		S2061-5 1x230 V	S2061-10 1x230 V	S2061-12 1x230 V	S2061-16 1x230 V
Control module model		SMO	SMO	SMO	SMO
Temperature application	°C	35 / 55	35 / 55	35 / 55	35 / 55
Controller, class		VI			
Controller, contribution to efficiency	%	4.0			
Seasonal space heating energy efficiency of the package, average climate	%	191 / 136	192 / 152	192 / 154	207 / 160
Seasonal space heating energy efficiency class of the package, average climate		A+++ / A++	A+++ / A+++	A+++ / A+++	A+++ / A+++
Seasonal space heating energy efficiency of the package, cold climate	%	167 / 133	179 / 141	173 / 138	181 / 143
Seasonal space heating energy efficiency of the package, warm climate	%	250 / 158	265 / 191	273 / 199	268 / 201

Model		S2061-10 3x400 V	S2061-12 3x400 V	S2061-16 3x400 V
Control module model		SMO	SMO	SMO
Temperature application	°C	35 / 55	35 / 55	35 / 55
Controller, class		VI		
Controller, contribution to efficiency	%	4.0		
Seasonal space heating energy efficiency of the package, average climate	%	192 / 152	192 / 154	207 / 160
Seasonal space heating energy efficiency class of the package, average climate		A+++ / A+++	A+++ / A+++	A+++ / A+++
Seasonal space heating energy efficiency of the package, cold climate	%	179 / 141	173 / 138	181 / 143
Seasonal space heating energy efficiency of the package, warm climate	%	265 / 191	273 / 199	268 / 201

The reported efficiency of the package also takes the controller into account. If an external supplementary boiler or solar heating is added to the package, the overall efficiency of the package should be recalculated.

TECHNICAL DOCUMENTATION

Model		S2061-5 1x230 V					
Type of heat pump	☒ Air-water ☐ Exhaust-water ☐ Brine-water ☐ Water-water						
Low-temperature heat pump	☐ Yes ☒ No						
Integrated immersion heater for additional heat	☐ Yes ☒ No						
Heat pump combination heater	☐ Yes ☒ No						
Climate	☒ Average ☐ Cold ☐ Warm						
Temperature application	☒ Medium (55°C) ☐ Low (35°C)						
Applied standards	EN14511 / EN14825 / EN12102						
Rated heat output	Prated	5	kW	Seasonal space heating energy efficiency	η_s	132	%
Declared capacity for space heating at part load and at outdoor temperature T_j				Declared coefficient of performance for space heating at part load and at outdoor temperature T_j			
$T_j = -7\text{ °C}$	P _{dh}	4.1	kW	$T_j = -7\text{ °C}$	COP _d	2.40	-
$T_j = +2\text{ °C}$	P _{dh}	2.4	kW	$T_j = +2\text{ °C}$	COP _d	3.29	-
$T_j = +7\text{ °C}$	P _{dh}	1.7	kW	$T_j = +7\text{ °C}$	COP _d	4.16	-
$T_j = +12\text{ °C}$	P _{dh}	1.0	kW	$T_j = +12\text{ °C}$	COP _d	4.90	-
$T_j = \text{biv}$	P _{dh}	3.6	kW	$T_j = \text{biv}$	COP _d	1.95	-
$T_j = \text{TOL}$	P _{dh}	4.1	kW	$T_j = \text{TOL}$	COP _d	2.40	-
$T_j = -15\text{ °C}$ (if TOL < -20 °C)	P _{dh}		kW	$T_j = -15\text{ °C}$ (if TOL < -20 °C)	COP _d		-
Bivalent temperature	T _{biv}	-7	°C	Min. outdoor air temperature	TOL	-10	°C
Cycling interval capacity	P _{cyh}		kW	Cycling interval efficiency	COP _{cyh}		-
Degradation coefficient	C _{dh}	0.9	-	Max supply temperature	WTOL	75	°C
Power consumption in modes other than active mode				Additional heat			
Off mode	P _{OFF}	0.006	kW	Rated heat output	P _{sup}	1.0	kW
Thermostat-off mode	P _{TO}	0.006	kW				
Standby mode	P _{SB}	0.006	kW	Type of energy input	Electric		
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	Variable			Rated airflow (air-water)		2,500	m³/h
Sound power level, indoors/outdoors	L _{WA}	- / 49	dB	Nominal heating medium flow			m³/h
Annual energy consumption	Q _{HE}	2,816	kWh	Brine flow brine-water or water-water heat pumps			m³/h
Contact information	NIBE Energy Systems – Box 14 – Hannabadsvägen 5 – 285 21 Markaryd – Sweden						

Model		S2061-10 1x230 V					
Type of heat pump	☒ Air-water ☐ Exhaust-water ☐ Brine-water ☐ Water-water						
Low-temperature heat pump	☐ Yes ☒ No						
Integrated immersion heater for additional heat	☐ Yes ☒ No						
Heat pump combination heater	☐ Yes ☒ No						
Climate	☒ Average ☐ Cold ☐ Warm						
Temperature application	☒ Medium (55°C) ☐ Low (35°C)						
Applied standards	EN14511 / EN14825 / EN12102						
Rated heat output	Prated	7	kW	Seasonal space heating energy efficiency	η_s	148	%
Declared capacity for space heating at part load and at outdoor temperature T_j				Declared coefficient of performance for space heating at part load and at outdoor temperature T_j			
$T_j = -7^\circ\text{C}$	Pdh	6.0	kW	$T_j = -7^\circ\text{C}$	COPd	2.26	-
$T_j = +2^\circ\text{C}$	Pdh	3.3	kW	$T_j = +2^\circ\text{C}$	COPd	3.75	-
$T_j = +7^\circ\text{C}$	Pdh	2.3	kW	$T_j = +7^\circ\text{C}$	COPd	4.90	-
$T_j = +12^\circ\text{C}$	Pdh	2.4	kW	$T_j = +12^\circ\text{C}$	COPd	6.78	-
$T_j = \text{biv}$	Pdh	6.0	kW	$T_j = \text{biv}$	COPd	1.94	-
$T_j = \text{TOL}$	Pdh	6.0	kW	$T_j = \text{TOL}$	COPd	2.26	-
$T_j = -15^\circ\text{C}$ (if $\text{TOL} < -20^\circ\text{C}$)	Pdh		kW	$T_j = -15^\circ\text{C}$ (if $\text{TOL} < -20^\circ\text{C}$)	COPd		-
Bivalent temperature	T_{biv}	-7	°C	Min. outdoor air temperature	TOL	-10	°C
Cycling interval capacity	Pcyc		kW	Cycling interval efficiency	COPcyc		-
Degradation coefficient	Cdh	0.9	-	Max supply temperature	WTOL	75	°C
Power consumption in modes other than active mode				Additional heat			
Off mode	P_{OFF}	0.006	kW	Rated heat output	Psup	0.5	kW
Thermostat-off mode	P_{TO}	0.006	kW				
Standby mode	P_{SB}	0.006	kW	Type of energy input	Electric		
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			Rated airflow (air-water)		3,350	m³/h
Sound power level, indoors/outdoors	L_{WA}	- / 53	dB	Nominal heating medium flow			m³/h
Annual energy consumption	Q_{HE}	3,556	kWh	Brine flow brine-water or water-water heat pumps			m³/h
Contact information	NIBE Energy Systems – Box 14 – Hannabadsvägen 5 – 285 21 Markaryd – Sweden						

Model		S2061-12 1x230 V						
Type of heat pump		☒ Air-water ☐ Exhaust-water ☐ Brine-water ☐ Water-water						
Low-temperature heat pump		☐ Yes ☒ No						
Integrated immersion heater for additional heat		☐ Yes ☒ No						
Heat pump combination heater		☐ Yes ☒ No						
Climate		☒ Average ☐ Cold ☐ Warm						
Temperature application		☒ Medium (55°C) ☐ Low (35°C)						
Applied standards		EN14511 / EN14825 / EN12102						
Rated heat output	Prated	9	kW	Seasonal space heating energy efficiency		ηs	150	%
Declared capacity for space heating at part load and at outdoor temperature Tj				Declared coefficient of performance for space heating at part load and at outdoor temperature Tj				
Tj = -7 °C	Pdh	7.8	kW	Tj = -7 °C		COPd	2.24	-
Tj = +2 °C	Pdh	4.8	kW	Tj = +2 °C		COPd	3.72	-
Tj = +7 °C	Pdh	3.1	kW	Tj = +7 °C		COPd	5.05	-
Tj = +12 °C	Pdh	2.6	kW	Tj = +12 °C		COPd	7.81	-
Tj = biv	Pdh	7.4	kW	Tj = biv		COPd	1.94	-
Tj = TOL	Pdh	7.8	kW	Tj = TOL		COPd	2.24	-
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)		COPd		-
Bivalent temperature	Tbiv	-7	°C	Min. outdoor air temperature		TOL	-10	°C
Cycling interval capacity	Pcyc		kW	Cycling interval efficiency		COPcyc		-
Degradation coefficient	Cdh	0.9	-	Max supply temperature		WTOL	75	°C
Power consumption in modes other than active mode				Additional heat				
Off mode	POFF	0.006	kW	Rated heat output		Psup	1.6	kW
Thermostat-off mode	Pto	0.006	kW					
Standby mode	PSB	0.006	kW	Type of energy input		Electric		
Crankcase heater mode	PCK	0.000	kW					
Other items								
Capacity control	Variable			Rated airflow (air-water)			5,600	m³/h
Sound power level, indoors/outdoors	LWA	- / 53	dB	Nominal heating medium flow				m³/h
Annual energy consumption	QHE	4,870	kWh	Brine flow brine-water or water-water heat pumps				m³/h
Contact information	NIBE Energy Systems – Box 14 – Hannabadsvägen 5 – 285 21 Markaryd – Sweden							

Model		S2061-16 1x230 V					
Type of heat pump	☒ Air-water ☐ Exhaust-water ☐ Brine-water ☐ Water-water						
Low-temperature heat pump	☐ Yes ☒ No						
Integrated immersion heater for additional heat	☐ Yes ☒ No						
Heat pump combination heater	☐ Yes ☒ No						
Climate	☒ Average ☐ Cold ☐ Warm						
Temperature application	☒ Medium (55°C) ☐ Low (35°C)						
Applied standards	EN14511 / EN14825 / EN12102						
Rated heat output	Prated	13	kW	Seasonal space heating energy efficiency	η_s	156	%
Declared capacity for space heating at part load and at outdoor temperature T_j				Declared coefficient of performance for space heating at part load and at outdoor temperature T_j			
$T_j = -7\text{ °C}$	Pdh	10.5	kW	$T_j = -7\text{ °C}$	COPd	2.14	-
$T_j = +2\text{ °C}$	Pdh	7.3	kW	$T_j = +2\text{ °C}$	COPd	3.83	-
$T_j = +7\text{ °C}$	Pdh	4.7	kW	$T_j = +7\text{ °C}$	COPd	5.74	-
$T_j = +12\text{ °C}$	Pdh	3.9	kW	$T_j = +12\text{ °C}$	COPd	8.47	-
$T_j = \text{biv}$	Pdh	9.9	kW	$T_j = \text{biv}$	COPd	1.98	-
$T_j = \text{TOL}$	Pdh	10.5	kW	$T_j = \text{TOL}$	COPd	2.14	-
$T_j = -15\text{ °C}$ (if $\text{TOL} < -20\text{ °C}$)	Pdh		kW	$T_j = -15\text{ °C}$ (if $\text{TOL} < -20\text{ °C}$)	COPd		-
Bivalent temperature	T_{biv}	-7	°C	Min. outdoor air temperature	TOL	-10	°C
Cycling interval capacity	Pcyc		kW	Cycling interval efficiency	COPcyc		-
Degradation coefficient	Cdh	0.9	-	Max supply temperature	WTOL	75	°C
Power consumption in modes other than active mode				Additional heat			
Off mode	P_{OFF}	0.006	kW	Rated heat output	Psup	2.6	kW
Thermostat-off mode	P_{TO}	0.006	kW				
Standby mode	P_{SB}	0.006	kW	Type of energy input	Electric		
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	Variable			Rated airflow (air-water)		6,150	m³/h
Sound power level, indoors/outdoors	L_{WA}	- / 51	dB	Nominal heating medium flow			m³/h
Annual energy consumption	Q_{HE}	6,507	kWh	Brine flow brine-water or water-water heat pumps			m³/h
Contact information	NIBE Energy Systems – Box 14 – Hannabadsvägen 5 – 285 21 Markaryd – Sweden						

Model		S2061-10 3x400 V						
Type of heat pump		☒ Air-water ☐ Exhaust-water ☐ Brine-water ☐ Water-water						
Low-temperature heat pump		☐ Yes ☒ No						
Integrated immersion heater for additional heat		☐ Yes ☒ No						
Heat pump combination heater		☐ Yes ☒ No						
Climate		☒ Average ☐ Cold ☐ Warm						
Temperature application		☒ Medium (55°C) ☐ Low (35°C)						
Applied standards		EN14511 / EN14825 / EN12102						
Rated heat output	Prated	7	kW	Seasonal space heating energy efficiency		ηs	148	%
Declared capacity for space heating at part load and at outdoor temperature Tj				Declared coefficient of performance for space heating at part load and at outdoor temperature Tj				
Tj = -7 °C	Pdh	6.0	kW	Tj = -7 °C		COPd	2.26	-
Tj = +2 °C	Pdh	3.3	kW	Tj = +2 °C		COPd	3.75	-
Tj = +7 °C	Pdh	2.3	kW	Tj = +7 °C		COPd	4.90	-
Tj = +12 °C	Pdh	2.4	kW	Tj = +12 °C		COPd	6.78	-
Tj = biv	Pdh	6.0	kW	Tj = biv		COPd	1.94	-
Tj = TOL	Pdh	6.0	kW	Tj = TOL		COPd	2.26	-
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)		COPd		-
Bivalent temperature	Tbiv	-7	°C	Min. outdoor air temperature		TOL	-10	°C
Cycling interval capacity	Pcyc		kW	Cycling interval efficiency		COPcyc		-
Degradation coefficient	Cdh	0.9	-	Max supply temperature		WTOL	75	°C
Power consumption in modes other than active mode				Additional heat				
Off mode	P _{OFF}	0.006	kW	Rated heat output		P _{sup}	0.5	kW
Thermostat-off mode	P _{TO}	0.006	kW					
Standby mode	P _{SB}	0.006	kW	Type of energy input		Electric		
Crankcase heater mode	P _{CK}	0.000	kW					
Other items								
Capacity control	Variable			Rated airflow (air-water)			3,350	m³/h
Sound power level, indoors/outdoors	L _{WA}	- / 53	dB	Nominal heating medium flow				m³/h
Annual energy consumption	Q _{HE}	3,556	kWh	Brine flow brine-water or water-water heat pumps				m³/h
Contact information	NIBE Energy Systems – Box 14 – Hannabadsvägen 5 – 285 21 Markaryd – Sweden							

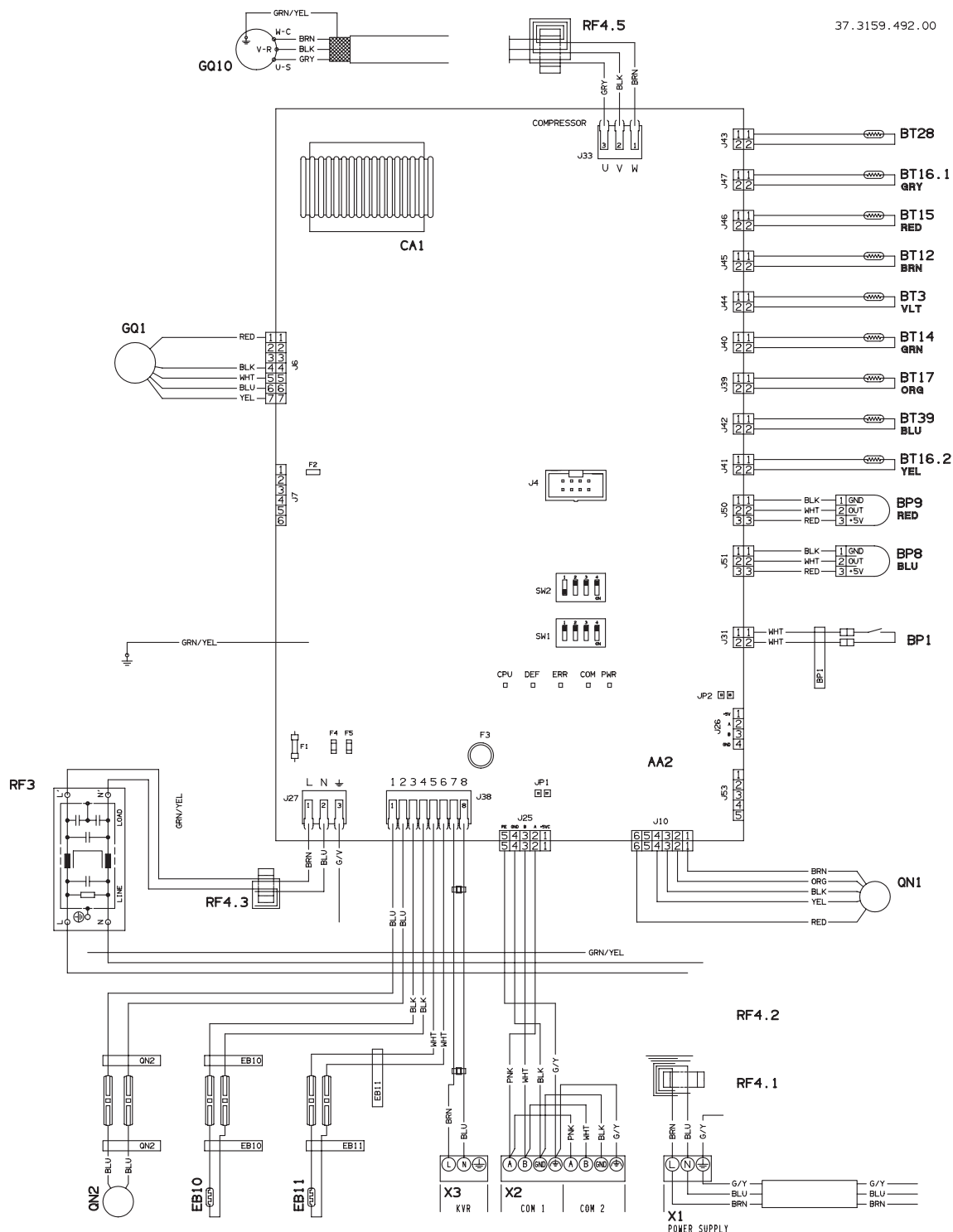
Model		S2061-12 3x400 V						
Type of heat pump		☒ Air-water ☐ Exhaust-water ☐ Brine-water ☐ Water-water						
Low-temperature heat pump		☐ Yes ☒ No						
Integrated immersion heater for additional heat		☐ Yes ☒ No						
Heat pump combination heater		☐ Yes ☒ No						
Climate		☒ Average ☐ Cold ☐ Warm						
Temperature application		☒ Medium (55°C) ☐ Low (35°C)						
Applied standards		EN14511 / EN14825 / EN12102						
Rated heat output	Prated	9	kW	Seasonal space heating energy efficiency		ηs	150	%
Declared capacity for space heating at part load and at outdoor temperature Tj				Declared coefficient of performance for space heating at part load and at outdoor temperature Tj				
Tj = -7 °C	Pdh	7.8	kW	Tj = -7 °C		COPd	2.24	-
Tj = +2 °C	Pdh	4.8	kW	Tj = +2 °C		COPd	3.72	-
Tj = +7 °C	Pdh	3.1	kW	Tj = +7 °C		COPd	5.05	-
Tj = +12 °C	Pdh	2.6	kW	Tj = +12 °C		COPd	7.81	-
Tj = biv	Pdh	7.4	kW	Tj = biv		COPd	1.94	-
Tj = TOL	Pdh	7.8	kW	Tj = TOL		COPd	2.24	-
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)		COPd		-
Bivalent temperature	Tbiv	-7	°C	Min. outdoor air temperature		TOL	-10	°C
Cycling interval capacity	Pcych		kW	Cycling interval efficiency		COPcyc		-
Degradation coefficient	Cdh	0.9	-	Max supply temperature		WTOL	75	°C
Power consumption in modes other than active mode				Additional heat				
Off mode	P _{OFF}	0.006	kW	Rated heat output		P _{sup}	1.6	kW
Thermostat-off mode	P _{TO}	0.006	kW					
Standby mode	P _{SB}	0.006	kW	Type of energy input		Electric		
Crankcase heater mode	P _{CK}	0.000	kW					
Other items								
Capacity control	Variable			Rated airflow (air-water)			5,600	m³/h
Sound power level, indoors/outdoors	L _{WA}	- / 53	dB	Nominal heating medium flow				m³/h
Annual energy consumption	Q _{HE}	4,870	kWh	Brine flow brine-water or water-water heat pumps				m³/h
Contact information	NIBE Energy Systems – Box 14 – Hannabadsvägen 5 – 285 21 Markaryd – Sweden							

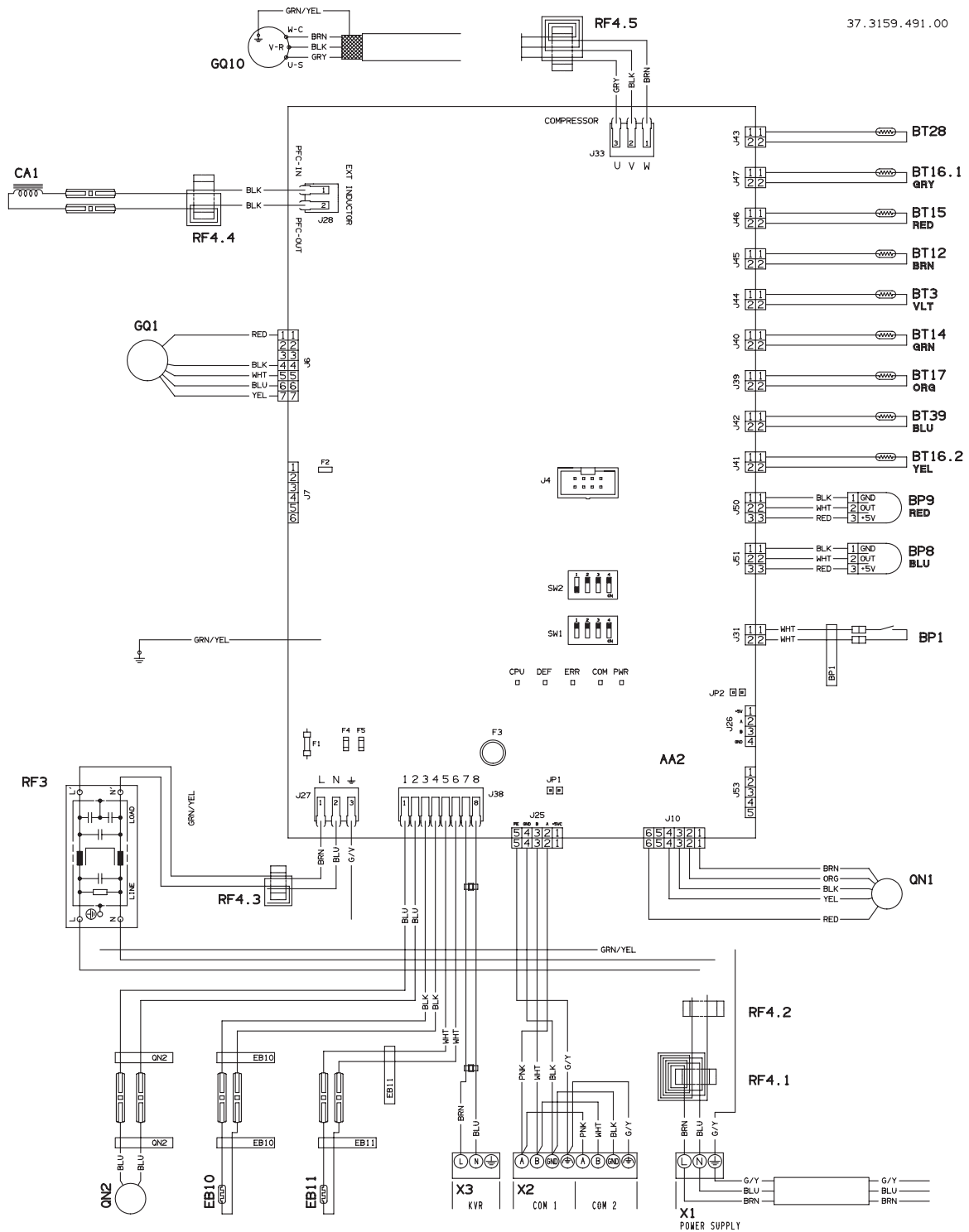
Model		S2061-16 3x400 V						
Type of heat pump		☒ Air-water ☐ Exhaust-water ☐ Brine-water ☐ Water-water						
Low-temperature heat pump		☐ Yes ☒ No						
Integrated immersion heater for additional heat		☐ Yes ☒ No						
Heat pump combination heater		☐ Yes ☒ No						
Climate		☒ Average ☐ Cold ☐ Warm						
Temperature application		☒ Medium (55°C) ☐ Low (35°C)						
Applied standards		EN14511 / EN14825 / EN12102						
Rated heat output	Prated	13	kW	Seasonal space heating energy efficiency		ηs	156	%
Declared capacity for space heating at part load and at outdoor temperature Tj				Declared coefficient of performance for space heating at part load and at outdoor temperature Tj				
Tj = -7 °C	Pdh	10.5	kW	Tj = -7 °C		COPd	2.14	-
Tj = +2 °C	Pdh	7.3	kW	Tj = +2 °C		COPd	3.83	-
Tj = +7 °C	Pdh	4.7	kW	Tj = +7 °C		COPd	5.74	-
Tj = +12 °C	Pdh	3.9	kW	Tj = +12 °C		COPd	8.47	-
Tj = biv	Pdh	9.9	kW	Tj = biv		COPd	1.98	-
Tj = TOL	Pdh	10.5	kW	Tj = TOL		COPd	2.14	-
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)		COPd		-
Bivalent temperature	Tbiv	-7	°C	Min. outdoor air temperature		TOL	-10	°C
Cycling interval capacity	Ppsych		kW	Cycling interval efficiency		COPcyc		-
Degradation coefficient	Cdh	0.9	-	Max supply temperature		WTOL	75	°C
Power consumption in modes other than active mode				Additional heat				
Off mode	POFF	0.006	kW	Rated heat output		Psup	2.6	kW
Thermostat-off mode	PTO	0.006	kW					
Standby mode	PSB	0.006	kW	Type of energy input		Electric		
Crankcase heater mode	PCK	0.000	kW					
Other items								
Capacity control	Variable			Rated airflow (air-water)			6,150	m³/h
Sound power level, indoors/outdoors	LWA	- / 51	dB	Nominal heating medium flow				m³/h
Annual energy consumption	QHE	6,507	kWh	Brine flow brine-water or water-water heat pumps				m³/h
Contact information	NIBE Energy Systems – Box 14 – Hannabadsvägen 5 – 285 21 Markaryd – Sweden							

Electrical circuit diagram

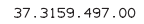
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S2061-5





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Contact information

AUSTRIA

NIBE GmbH
Gahberggasse 11
4861 Schörfling am Attersee
Tel: +43 (0)7662 8963-0
kontakt@nibe.at
nibe.at

FINLAND

NIBE Energy Systems Oy
Juurakkotie 3, 01510 Vantaa
Tel: +358 (0)9 274 6970
info@nibe.fi
nibe.fi

GREAT BRITAIN

NIBE Energy Systems Ltd
3C Broom Business Park,
Bridge Way, S41 9QG Chesterfield
Tel: +44 (0)330 311 2201
info@nibe.co.uk
nibe.co.uk

POLAND

NIBE-BIAWAR Sp. z o.o.
Ul. Prof. Andrzeja Kalicinskiego 1
15-569 Białystok
Tel: +48 (0)85 66 28 490
biawar.com.pl

CZECH REPUBLIC

Družstevní závody Dražice - strojírna
s.r.o.
Dražice 69, 29471 Benátky n. Jiz.
Tel: +420 326 373 801
nibe@nibe.cz
nibe.cz

FRANCE

NIBE Energy Systems France SAS
Zone industrielle RD 28
Rue du Pou du Ciel, 01600 Reyrieux
Tél: 04 74 00 92 92
info@nibe.fr
nibe.fr

NETHERLANDS

NIBE Energietechnik B.V.
Bagven Park 11, 4838 EH Breda
Tel: +31 (0)168 47 77 22
info@nibenl.nl
nibenl.nl

SWEDEN

NIBE Energy Systems
Box 14
Hannabadsvägen 5, 285 21 Markaryd
Tel: +46 (0)433-27 30 00
info@nibe.se
nibe.se

DENMARK

Vølund Varmeteknik A/S
Industrivej Nord 7B, 7400 Herning
Tel: +45 97 17 20 33
info@volundvt.dk
volundvt.dk

GERMANY

NIBE Systemtechnik GmbH
Am Reiherpfahl 3, 29223 Celle
Tel: +49 (0)5141 75 46 -0
info@nibe.de
nibe.de

NORWAY

ABK-Qviller AS
Brynsengfaret 6, 0667 Oslo
Tel: (+47) 23 17 05 20
post@abkqviller.no
nibe.no

SWITZERLAND

NIBE Wärmetechnik c/o ait Schweiz AG
Industriepark, CH-6246 Altishofen
Tel. +41 (0)58 252 21 00
info@nibe.ch
nibe.ch

For countries not mentioned in this list, contact NIBE Sweden or check nibe.eu for more information.

NIBE Energy Systems
Hannabadsvägen 5
Box 14
SE-285 21 Markaryd
info@nibe.se
nibe.eu

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