

The NIBE logo is displayed in a bold, red, serif font within a white rectangular box. The background of the entire top section is a photograph of a dense forest with tall, thin trees and sunlight filtering through the canopy.

Air/water heat pump

NIBE S2061

NIBE S2061 is an intelligent, compact and inverter-controlled air/water heat pump with a more climate-friendly refrigerant. NIBE S2061 provides optimised savings since the heat pump automatically adapts to your home's output requirements all year round.

The heat pump works down to an outdoor temperature of -25 C and at the same time supplies up to 65 C in supply line temperature. The effective cooling function allows the heat pump to deliver a comfortable indoor climate even at high outdoor temperatures. It also has a more climate-friendly refrigerant to provide less impact on the environment. Available in four sizes 5, 10, 12 and 16.

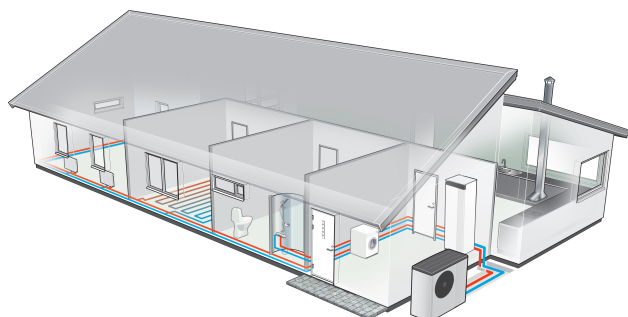
Thanks to smart technology, the product gives you control over your energy consumption and will be a key part of your connected home. The efficient control system automatically adjusts the indoor climate for high comfort, and you do nature a favour at the same time.



- **Compact heat pump that adapts to your home's requirements with a new, more climate-friendly refrigerant to provide less impact on the environment.**
- **High capacity even down to -25°C and effective cooling function.**
- **Energy-saving smart technology with user-friendly control.**

This is how NIBE S2061 works

Installation method



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).

S2061 – a part of your climate system where S2061 is intended to be combined with one of the indoor modules or the control modules.

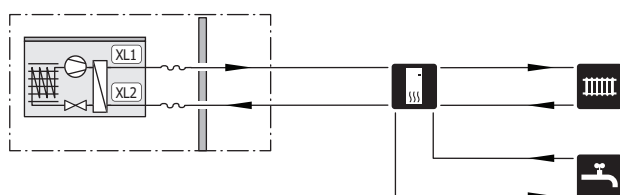
Together with an indoor module, S2061 creates a complete heating/cooling and hot water system. Our flexible indoor modules provide efficient heating and high hot water performance. The indoor modules are complete with a smart, user-friendly control system, hot water heater, additional heat, self-regulating circulation pump, etc.

The control modules offer a flexible system solution that can be easily customised. For systems with a control module, different components, such as water heaters, additional heat and other accessories, can be selected to suit the installation's requirements.

There is a wide range of system solutions and accessories for NIBE's indoor modules and control modules.

PRINCIPLE OF OPERATION

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)

Good to know about NIBE S2061

Transport

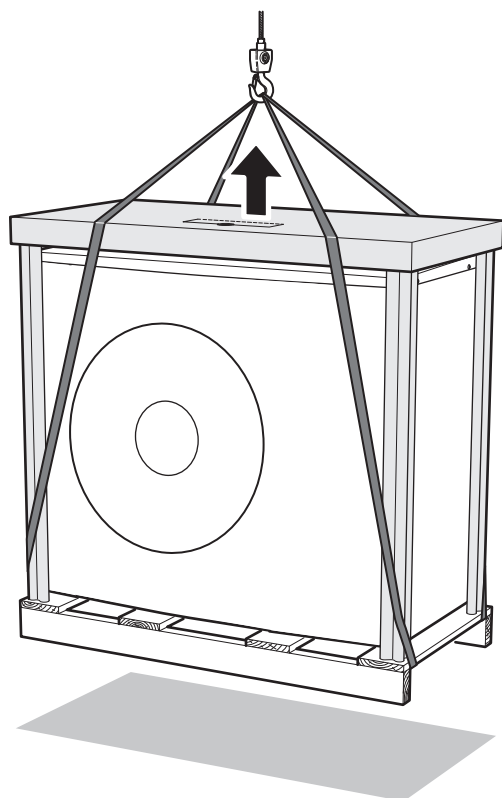
S2061 should be transported and stored vertically in a dry place.

Ensure that the heat pump cannot fall over during transport.

Check that S2061 has not been damaged during transport.

LIFT TO INSTALLATION LOCATION

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.



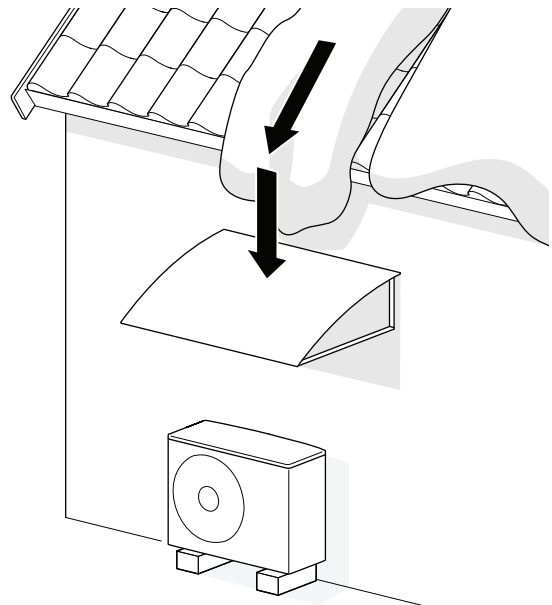
Installation and positioning

- 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. Use the accessory KVR, see section "Condensate drip tray".
- 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.



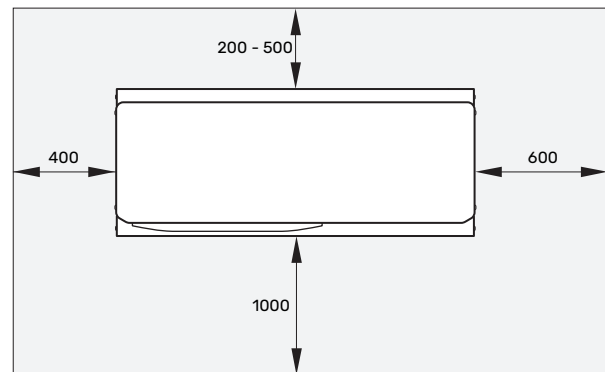
INSTALLATION AREA

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.

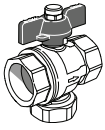
Approx. 600 mm free space is needed on the right-hand side to allow the front panel to be removed.

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.

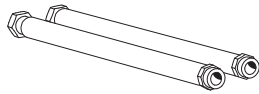


Supplied components

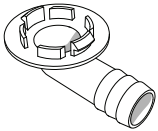
Local differences in the enclosed kit may occur. See relevant installer manual for more information.



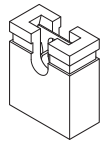
Filterball (G1")



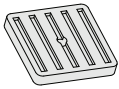
Flexible hoses
(Dimensions DN25, G1")
Including gaskets (4 pcs)



Condensation outlet (KVA)



Jumper (JP1)¹



Dampers (4 pcs)

¹ Not used.

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 and should be documented. The above applies to closed heating systems.

If the heat pump is replaced, the installation must be inspected again.

Condensate drip tray

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.

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.

Pipe connections

MINIMUM SYSTEM FLOW DEFROSTING

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

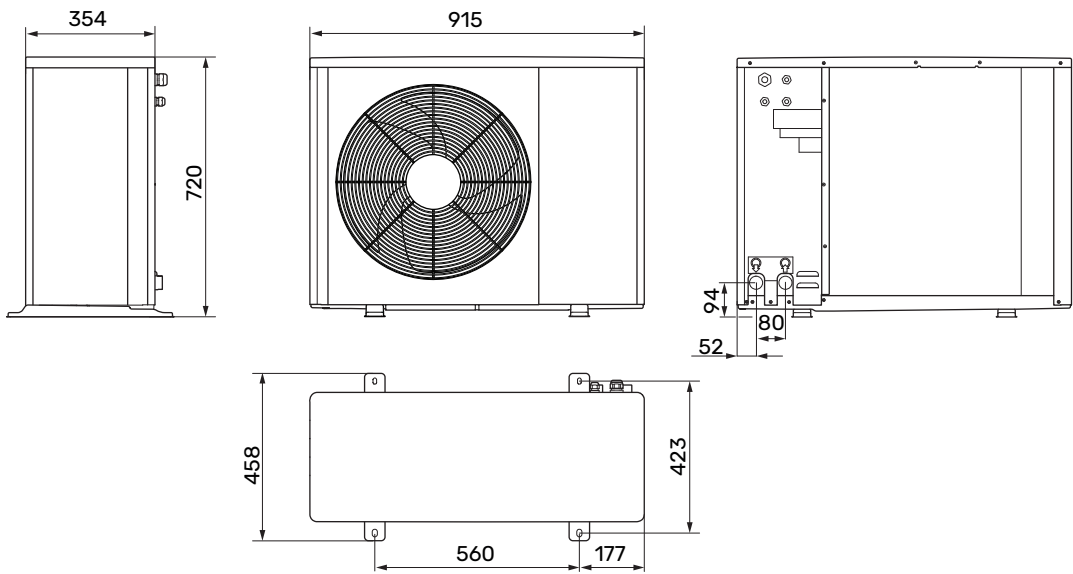
To prevent short operating times, and to enable defrosting, a certain available water volume is required. For the optimum operation of S2061, a minimum available water volume is recommended, see table. This applies separately to heating and cooling systems.

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

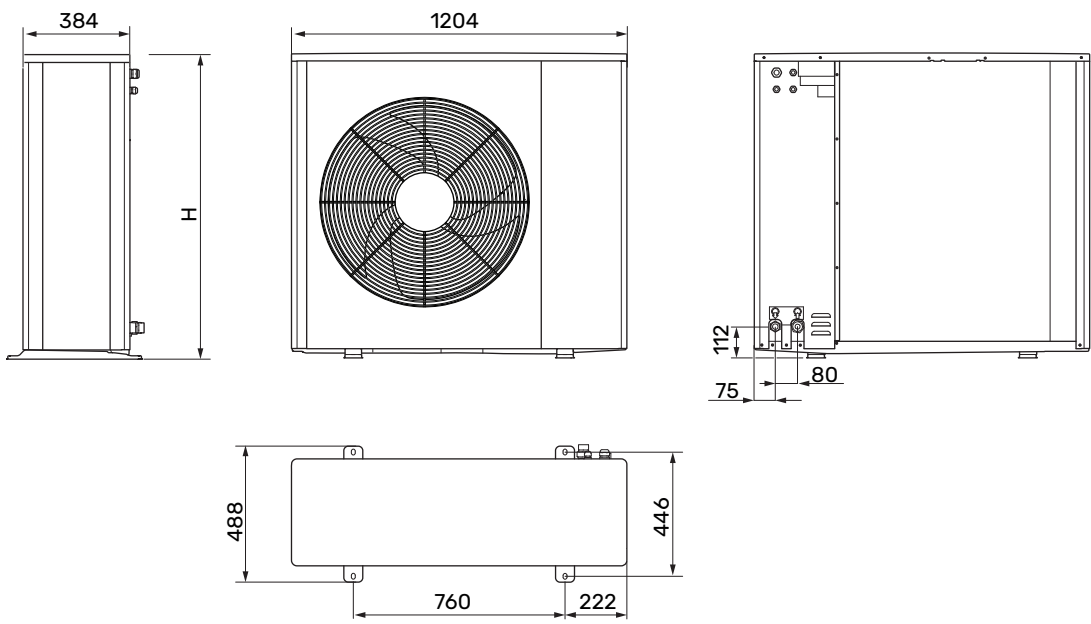
Technical data

Dimensions

S2061-5

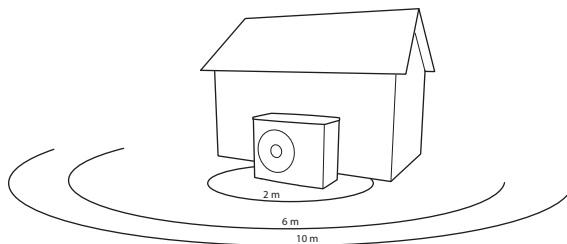


S2061-10, -12, -16



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

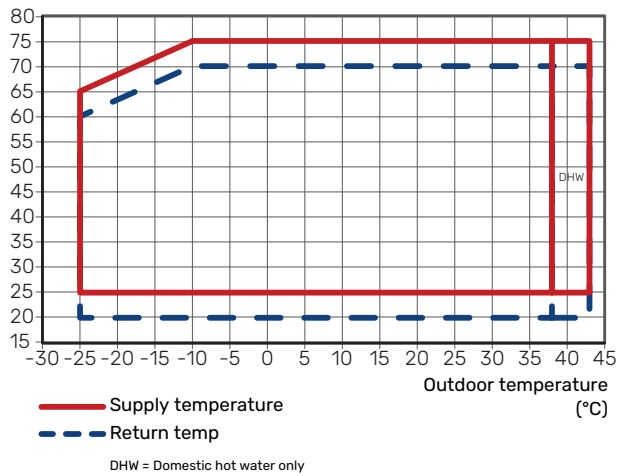
¹ Sound power level, $L_W(A)$, according to EN12102

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

Technical specifications

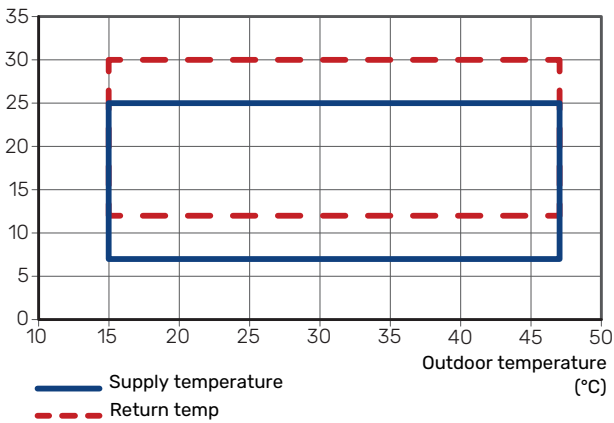
WORKING RANGE, HEATING

Supply temperature
(°C)



WORKING RANGE, COOLING

Supply temperature
(°C)



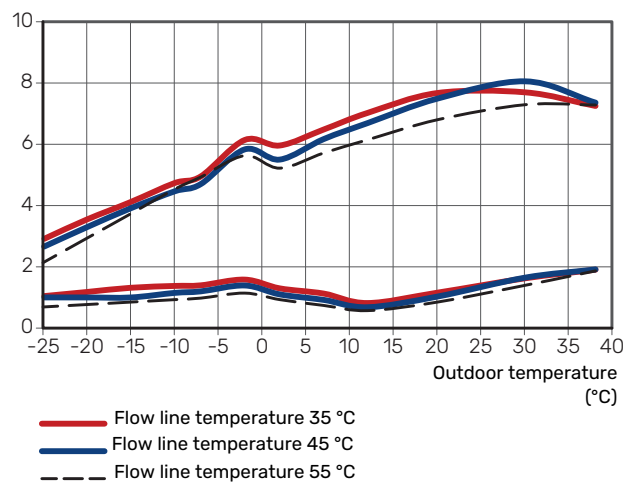
During shorter time it is allowed to have lower working temperatures on the water side, e.g. during start up.

POWER DURING HEATING OPERATION

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

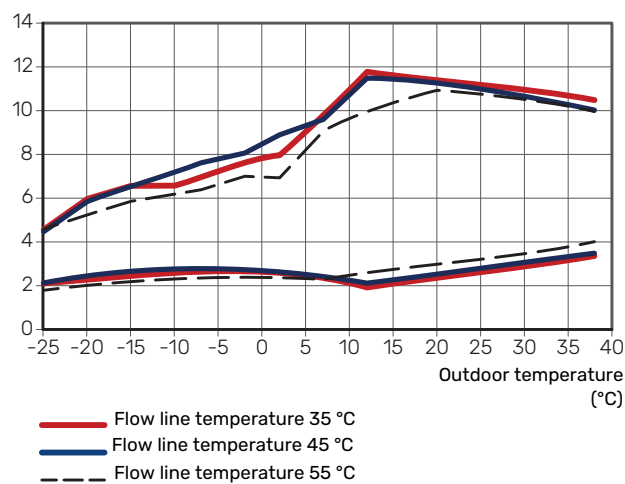
S2061-5

Heating output
(kW)



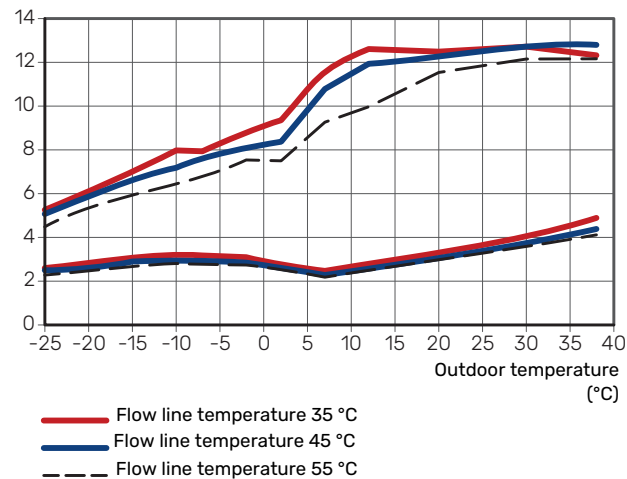
S2061-10

Heating output
(kW)



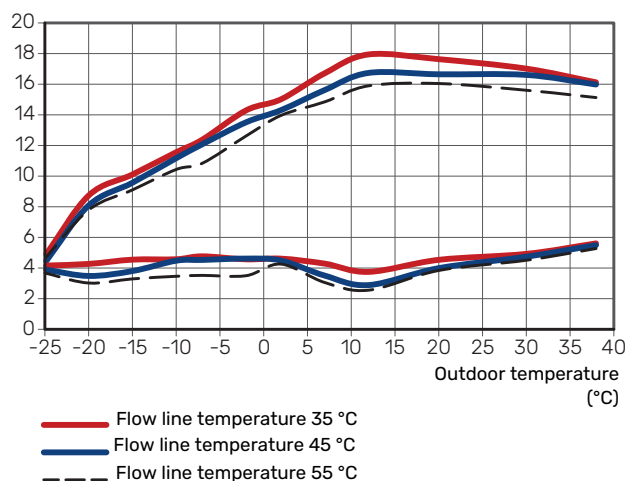
S2061-12

Heating output
(kW)



S2061-16

Heating output
(kW)

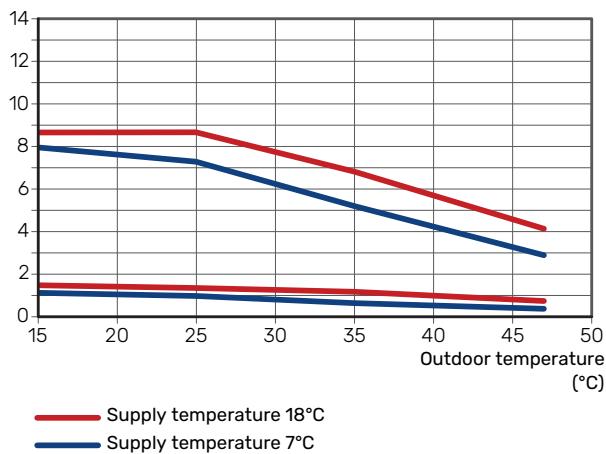


POWER DURING COOLING OPERATION

Maximum and minimum capacity during continuous operation.

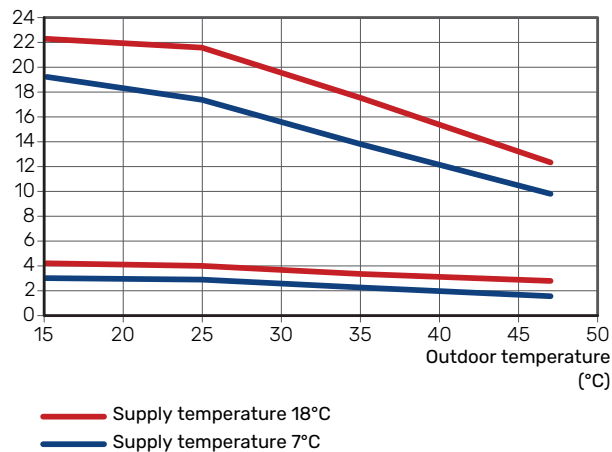
S2061-5

Cooling output
(kW)



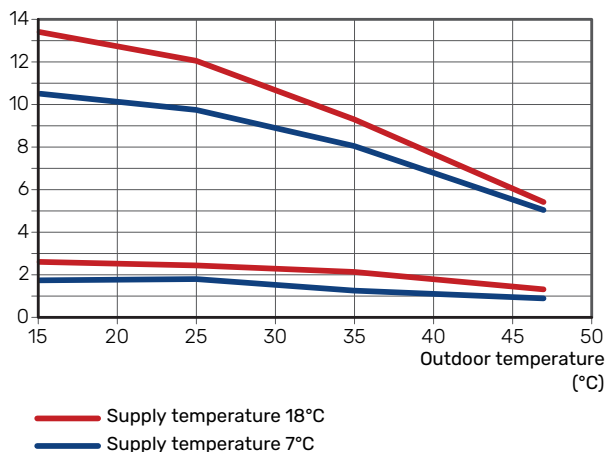
S2061-16

Cooling output
(kW)



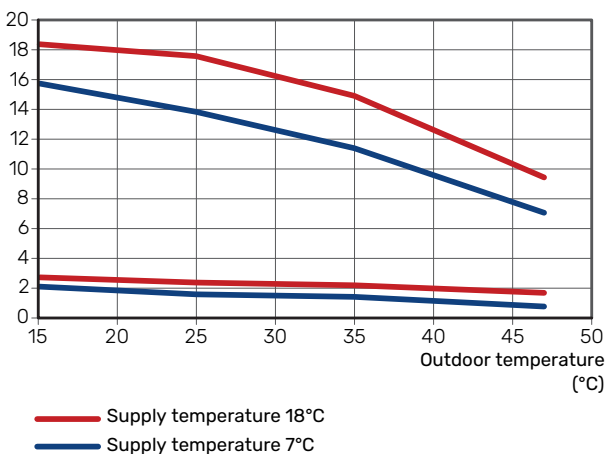
S2061-10

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
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
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			
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)			
Dimensions and weight					
Width	mm	915	1,204	1,204	1,204
Depth	mm	458	488	488	488

S2061		5	10	12	16
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 $DT=5\text{ K}$ 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
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
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		
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				
Width	mm	1,204	1,204	1,204
Depth	mm	488	488	488
Height	mm	892	1,103	1,397

S2061		10	12	16
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 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.

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

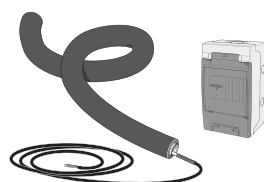
3 metres

Part no. 267 020

KVR 14-60

6 metres

Part no. 267 021

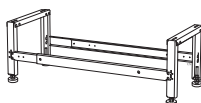


Stand and brackets

Ground stand GSU 50

For the installation of S2061 on the ground.

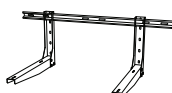
Part no. 267 018



Wall rack BAU 50

Wall mounting of S2061.

Part no. 267 017



Sustainable energy solutions since 1952

NIBE has since 1952 been manufacturing energy-efficient and sustainable climate solutions for your home. It all began in Markaryd, in the southern Swedish province of Småland, and we recognise our Nordic heritage by utilising the power of nature. We combine renewable energy with smart technology to offer efficient solutions, allowing us to work together to create a more sustainable future.

Regardless of whether it is a chilly winter's day or a warm afternoon in the summer sun, we need a balanced indoor climate that allows us to enjoy a comfortable life, whatever the weather. Our extensive range of products supply your home with cooling, heating, ventilation and hot water, making it possible for you to create a pleasant indoor climate with little impact on the environment.

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NIBE

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