



Sustainability
is in our nature

NIBE GROUND-SOURCE HEAT PUMPS





Nature can be warm and comforting, but it can also be powerful and determined. It is our greatest source of energy and we depend on it to give life to everything around us.

The harsh Nordic environment, with its fluctuating climate, has shaped us and taught us how to adapt. Whether it's a cold winter's day or a warm summer afternoon, the temperature inside your home must be adjusted to ensure comfort at all times, whatever the weather.

Our wide product range provides cooling, heating, ventilation and hot water to your home, all with little impact on the environment, so that we can create a more sustainable future together.

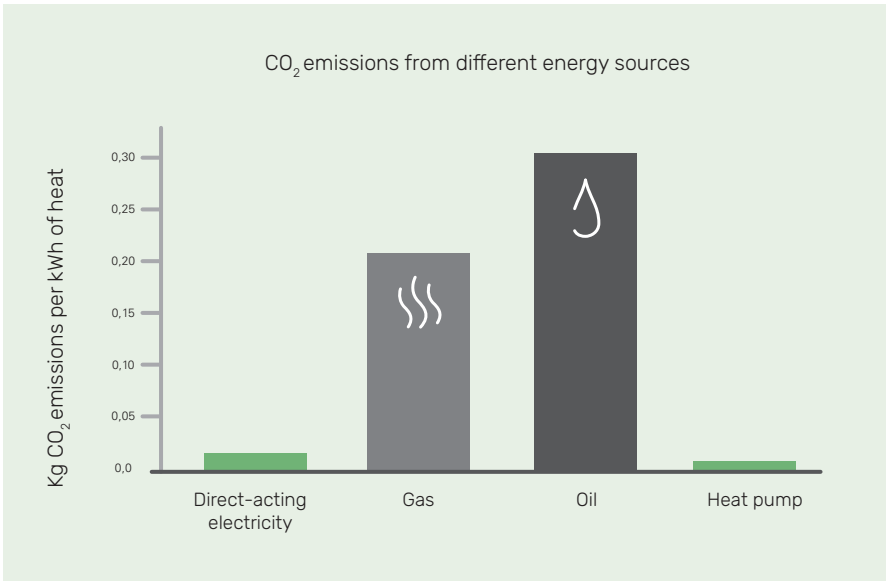


Visit nibe.co.uk to view all our brochures

Help us to build a sustainable future

A large proportion of the carbon dioxide in the atmosphere originates from fossil energy sources for heating and hot water installations. Oil, coal and gas must be replaced by renewable energy sources to reduce the lasting damage to nature.

We value our Nordic heritage and, with nearly 70 years' experience of manufacturing climate solutions, we're inviting you to help us build a more sustainable future. By harnessing the renewable energy of nature and combining it with smart, innovative technology, we can offer efficient solutions that benefit everyone.



Start with a heat pump from NIBE

You reap multiple benefits when you replace fossil fuels with renewable energy. You'll get a more sustainable heating solution that helps you to reduce your carbon footprint. In addition, you can choose a more energy-efficient solution that can reduce your energy consumption and energy costs. You do both yourself and the environment a favour.

With a heat pump from NIBE, you can use the renewable energy from your surroundings to create a comfortable indoor climate. The heat pump offers immediate environmental returns in the form of reduced energy consumption and reduced emissions. The amount of electricity required is relatively low, as electricity is not the main source of power for the heat pump. Electricity is only required to operate the heat pump, which utilises the renewable energy allowing you to save up to 75% of your energy costs for heating and hot water. With energy prices rising all the time, you will be very happy with your decision.

Welcome to our world of indoor comfort

With the power of nature and smart technology,
we help you to create a pleasant indoor climate
with low energy consumption.





The advantages of choosing a ground source heat pump from NIBE



Sustainable

Our ground source heat pumps use energy from nature to reduce the environmental impact. They are designed to give you an energy-efficient daily life without compromising on comfort. This is done, for example, by automatically adjusting the heating according to your habits and the weather forecast. All to give you cheaper, greener, and more reliable heating, both now and in the future.



Peace of mind

Having NIBE as your supplier ensures you great peace of mind. We're a Swedish company that's been manufacturing sustainable climate solutions for 70 years. This means our products have been adapted to the challenges of the Nordic climate.



Easy

We have expert NIBE Pro installers all over the country who can help you to make a quick and smooth decision regarding purchasing a NIBE heat pump. If you would like to know more and get in touch with an installer near you, please visit talk to an expert on our website **nibe.co.uk** Our experts will answer your questions and give you all the help you need.

Visit nibe.co.uk to get in touch

Say hello to the S series

Upgrade to sustainable and weather-adapted heating

When it's time for a new heat pump, choose real comfort. With the S series at the heart of your home, you get a pleasant indoor climate all year round, sustainable energy consumption, and full control from your mobile.

Suits all houses

Our intelligent and energy-efficient heat pumps in the S series adapt to the conditions of your house and your needs. This makes them suitable for all houses and easy to switch to. They always have the latest software and adjust the heating according to your habits and the weather forecast. All to give you cheaper, greener, and more pleasant heating, both now and in the future.

An investment you can feel confident in

The S series contains our most advanced products to date, and is the result of Swedish engineering skill. They are designed to meet tomorrow's challenges in technology and innovative design. Elegant and timeless, to blend in with the heart of your home. Made in Sweden for the challenges of the Nordic climate and to give you great comfort and low energy consumption – while you do nature a favour.

Advantages of the S series

Regardless of which S series heat pump you choose, you get:

- Wifi connection with the possibility of connecting the heat pump to your smart home
- User-friendly touchscreen with colour display
- Temperature control according to weather forecasts
- Automatic software updates
- Voice assistant control support
- The option of adding smart wireless accessories for increased comfort



The key to your smart home

With a heat pump in the S series range you can easily control your heating, hot water, and ventilation system via the myUplink app. You will receive a quick overview of the heat pump's status and the heating in your home.



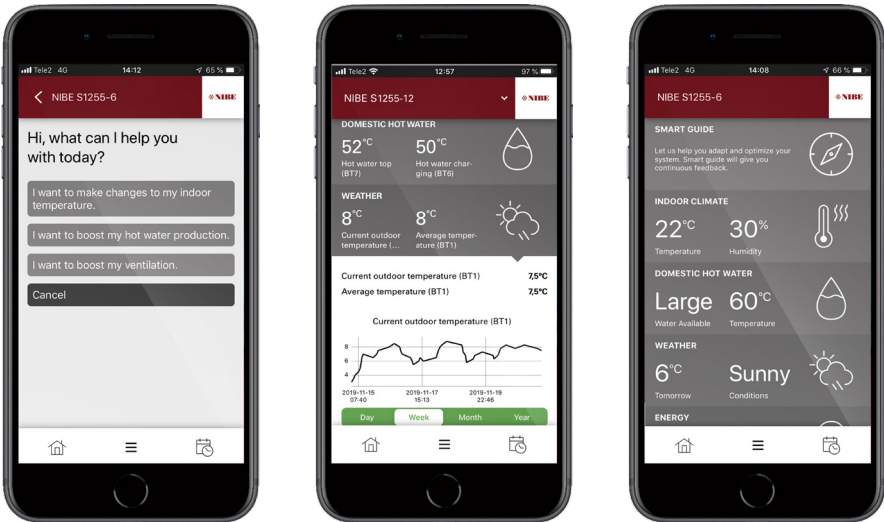
Heating, hot water and ventilation can easily be controlled with an S-Series heat pump via the myUplink app.



myUplink will notify if something happens. For example, it will alert you to any malfunctions via push messages from the app and by email.



Historical data and a number of intelligent services, such as voice control and IFTTT*, are also accessible, allowing several smart products to be connected to each other.



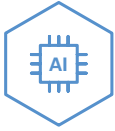
*IFTTT is a free-of-charge online service that enables you to get the most out of your smart home technology. Connecting products and services in your home ensures a high level of comfort.



Always updated
myUplink makes it possible to update the software wirelessly, providing optimised operation with the latest functions.



Weather forecast control
With weather forecast control, the heat pump can adapt according to the weather forecast.



Extra comfort
Wireless accessories adjust the indoor climate automatically to optimise comfort levels using low energy consumption.



Welcome to our world of indoor comfort

With the power of nature and smart technology,
we help you to create a pleasant indoor climate
with low energy consumption.



NIBE S-series

Ground-source heat pumps

By harvesting power from nature, you can create a pleasant indoor climate in your home with a low impact on the environment.

Ground source heat is pure solar energy stored in the ground and the bottom of lakes. It starts at the surface, when the sun shines more strongly during the spring, and is then stored deeper in the ground as the weather gets warmer. With a ground source heating system from NIBE, you can create a pleasant indoor climate and supply your home with both heating and hot water, as well as cooling on hot summer days.

By using renewable energy, you can reduce your energy costs while doing the environment a favour.

The ground source heat pump extracts heat from the solar energy stored in the ground, using either buried collectors or holes drilled deep into the ground. Using a mix of water and eco-friendly antifreeze which circulates in a sealed loop, the heat energy is extracted from the ground and transferred to the heat pump.

NIBE is a leading player in the field of inverter technology, with many years' experience of output-regulating ground source heat pumps and one of the widest product ranges on the market.



Ground-source heat pump

NIBE S1256



NIBE S1256 is an intelligent, inverter-controlled ground source heat pump with integrated water heater and a new, more climate-friendly refrigerant. NIBE S1256 helps you with not using more energy than you need since the heat pump adapt automatically after you need of heat. With a long experience of ground source heat pumps and innovative technology it is our most energy efficient ground source heat pump.

NIBE S1256 has a high seasonal performance factor up to 6.22 in SCOP. This results in highly efficient unit resulting in low operating costs and hot water with high performance. The heat pump is suitable for house up to circa 400 m² and is available in two different output sizes: 1.5-8 kW and 3-13 kW. NIBE S1256 is designed for low noise level and is suitable for both new builds and replacing existing heat sources.

With integrated wifi connection, the NIBE S Series becomes a natural part of your connected home. Smart technology adjusts the indoor climate automatically while you exercise complete control from your phone or tablet. High comfort level and low energy consumption – and you're doing nature a favour at the same time.

A+++

The system's efficiency class for heating.

A+



Product efficiency class and tap profile for hot water.



Our most energy-efficient ground source heat pump with a seasonal performance factor up to 6.22 in SCOP.



A new, more climate friendly refrigerant, high hot water capacity and low noise level.



User-friendly touch control and integrated wireless connectivity with energy saving smart technology for high comfort.

NIBE S1256		1.5-8 kW	3-13 kW
Product's efficiency class 35/55°C ²⁾		A+++ / A+++	
System efficiency class, room heating 35/55°C ¹⁾		A+++ / A+++	
Efficiency class, hot water/charging profile ³⁾		A+ / XL	
Nominal heating output (P _{designH})		7.5	11
SCOP _{EN14825} cold climate, 35 °C / 55 °C		5.95 / 4.44	6.13 / 4.46
SCOP _{EN14825} average climate, 35 °C / 55 °C		5.67 / 4.26	5.88 / 4.29
Output data according to EN 14511 nominal 0 / 35 – Rated output	kW	2.85	5.12
Output data according to EN 14511 nominal 0/35 – COP _{EN14511}		5.05	5.06
Sound power level (L _{WA}) according to EN 12102 at 0/35	dB(A)	36 – 43	36 – 47
Rated voltage		230V ~ 50 Hz	
Quantity of refrigerant in CO ₂ -equivalent	tonnes	0.54	0.68
Height/width/depth	mm	1800 / 600 / 620	
Integrated hot water heater	l	180	
Weight of complete heat pump	kg	231	245

¹⁾ Scale for product's efficiency class, room heating A+++ to D. ²⁾ Scale for system's efficiency class for room heating: A+++ – G. Reported system efficiency takes the product's temperature regulator into account. ³⁾ Scale for efficiency class, hot water: A+ – F.

Ground-source heat pump

NIBE S1156



The NIBE S1156 is an intelligent, inverter-controlled ground source heat pump with a new, more climate-friendly refrigerant and without an integrated water heater. The heat pump provides optimised savings as it automatically adapts to your home's heating requirements. The NIBE S1156 is our most energy-efficient ground source heat pump, thanks to innovative technology and our many years of experience.

The NIBE S1156 has a seasonal performance factor of up to 6.22 using the SCOP method, making it a highly efficient climate system with low operating costs. After connecting a separate water heater of any size, it provides hot water with high performance. The heat pump is designed for houses up to approx. 400 m² and is available in three output sizes: 1.5-8 kW, 3-13 kW and 4-18 kW. The NIBE S1156 is designed for low noise levels and is suitable for both new builds and when replacing an existing heat source.

With integrated Wifi and the possibility of connecting to wireless accessories, the NIBE S-Series will become a natural part of your connected home. The smart technology adjusts the indoor climate automatically, while you exercise complete control from your smartphone or tablet. A high level of comfort and low energy consumption – and you're doing nature a favour at the same time.

A+++

The system's efficiency class for heating.

A+



Product efficiency class and tap profile for hot water.

A+



The product's efficiency class and tap profile for hot water together with VPB S300 (applies to S1156-18).



Our most energy-efficient ground source heat pump with a seasonal performance factor of up to 6.22 in SCOP.



A new, more climate friendly refrigerant, high hot water capacity and low noise level.



User-friendly touch control and integrated wireless connectivity with energy saving smart technology for maximum comfort.

NIBE S1156		1.5-8 kW	3-13 kW	4-18 kW
Space heating efficiency class 35°C / 55°C ¹⁾		A+++ / A+++		
Space heating efficiency class of the system 35°C / 55°C ²⁾		A+++ / A+++		
Efficiency class hot water / charging profile ³⁾		A+ / XL		A+ / XXL
Nominal heating output (P _{designH})	kW	7.5	11	15
SCOP _{EN14825} cold climate, 35°C / 55°C		5.95 / 4.44	6.13 / 4.46	6.22 / 4.60
SCOP _{EN14825} average climate, 35°C / 55°C		5.67 / 4.26	5.88 / 4.29	5.94 / 4.42
Output data according to EN 14511 nominal 0/35 – Rated output	kW	2.85	5.12	6.80
Output data according to EN 14511 nominal 0/35 – COP _{EN14511}		5.05	5.06	5.10
Sound power level (L _{WA}) according to EN 12102 at 0/35	dB(A)	36 – 43	36-47	
Rated voltage		230 ~ 50 Hz		400 V 3N ~ 50 Hz
Refrigerant amount in CO ₂ -equivalent	tonnes	0.54	0.68	0.82
Height / Width / Depth		1500 / 600 / 620		
Weight complete heat pump	kg	165	171	184

¹⁾ Scale for the product's efficiency class room heating: A+++ – D. ²⁾ Scale for the system's efficiency class room heating: A+++ – G. Reported efficiency for the system takes the product's temperature regulator into account. ³⁾ Scale for efficiency class hot water: A+ – F.

Ground source heat pump NIBE S1155



NIBE S1155 is an intelligent, inverter-controlled ground source heat pump without an integrated hot water tank, which makes it easy to install in places with lower ceilings. A separate hot water tank is selected according to hot water requirements. NIBE S1155 provides optimised savings, as the heat pump automatically adapts to your home's heating demands.

The NIBE S1155 has a high seasonal performance factor, which results in low operating costs. The heat pump is available in four different output sizes; 1.5–6 kW, 3–12 kW, 4–16 kW and 6–25 kW, and is suitable for both small and large properties.



With integrated flow meters, the new S1155 range can now log delivered energy, allowing users to easily view heat generation and understand performance within their indoor climate system.



Smart, user-friendly control system.



User-friendly touchscreen and integrated wireless connection with energy-saving smart technology for a high level of comfort

NIBE S1155		6–25 kW
Product's efficiency class 35/55°C ¹⁾		A+++/A+++
System efficiency class, room heating 35/55°C ²⁾		A+++/A+++
Efficiency class, hot water/charging profile ³⁾		A/XXL
Nominal heating output (P _{design})		25
SCOP _{EN14825} cold climate, 35°C / 55°C		5.5 / 4.1
SCOP _{EN14825} average climate, 35°C / 55°C		5.2 / 4.0
Output data according to EN 14511 nominal 0 / 35 – Rated output	kW	12.68
Output data according to EN 14511 nominal 0/35 – COPEN14511		4.68
Sound power level (L _{WA}) according to EN 12102 at 0/35	dB(A)	36–47
Rated voltage		400 V 3N ~ 50 Hz
Refrigerant quantity in CO ₂ -equivalent	tonnes	4.39
Height/width/depth	mm	1500 / 600 / 620
Weight of complete heat pump	kg	205

¹⁾Scale for product's efficiency class, room heating A+++ to D. ²⁾Scale for system's efficiency class for room heating: A+++ – G. Reported system efficiency takes the product's temperature regulator into account. ³⁾Scale for efficiency class, hot water: A+ – F.

Heat pump panel NIBE PVT



NIBE PVT is a combined silent air collector and PV panel for NIBE ground source heat pumps. With this panel and a NIBE ground source heat pump you get an all-in-one solution and can get ground source energy in situations where you can't use traditional ground source collectors or a noisy air/water solution.

Our new technology allows double production of energy, thermal energy and electricity by using a unique solar panel. Still, it looks like our standard PV panels. Optimizing production of photovoltaic electricity on the front using photovoltaic cells and produces energy to the heat pump with an efficient air to water heat exchanger on the back. Basically, the panel converts the solar energy into electricity and heat.



Zero Noise

Totally silent air collector for NIBE ground source heat pumps.



Unique Design

Unique, elegant, all-black panels with double production of energy, thermal and electricity.



Connectivity

Connect to a NIBE heat pump for maximum efficiency

PVT-Panel		NIBE PVT Landscape					
Rated output at STC (P _{mpp})	W	340					
External dimensions	mm	1985x995x65 (1.98m ²)					
Heat Capacity	kJ/m²K	177					
Heat exchange capacity Air to Liquid, U value	W/m²K	62					
Stagnation temperature	°C	62					
Packets		PTP-6	PTP-8	PTP-10	PTF-6	PTF-8	PTF-10
Number of panels		6	8	10	6	8	10
Total surface on roof	m²	12	16	20	12	16	20
Roof type		Pan tile			Flat roof		

The NIBE F series

Ground-source heat pumps



Ground source heat pump

NIBE F1355



NIBE F1355 is an intelligent and powerful inverter-controlled ground source heat pump, available in two sizes. NIBE F1355 provides optimised savings, as the heat pump always performs efficiently and automatically adapts to the property's output requirements all year round.

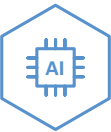
NIBE F1355 has a high seasonal performance factor and an operating range of 4–28 kW or 6–43 kW. With less than 5 tonnes of CO₂ equivalent refrigerant per cooling module. The dual compressors provide efficient output regulation and high reliability, making NIBE F1355 perfect for properties with larger heating requirements.



Powerful and flexible heat pump in two sizes that can be combined in systems with up to 9 F1345 or F1355



Inverter technology for low operating costs and optimised seasonal performance factor.



Smart technology with user-friendly control for easy remote control.

A+++

System's efficiency class for room heating, 35°C

A+++

System's efficiency class for room heating, 55°C

NIBE F1355		28	43
System's efficiency class, room heating 35/55°C ¹⁾		A+++/A+++	
Product's efficiency class room heating 35/55°C ²⁾		A+++/A+++	
SCOP _{EN14825} average climate, 35/55°C		5.0 / 4.0	5.0 / 4.0
SCOP _{EN14825} cold climate, 35/55°C		5.4 / 4.2	5.3 / 4.1
Nominal heating output (P _{designh})	kW	28	45/42
Heating capacity (P _H)	kW	4–28	6–43
Output data in accordance with EN 14511 - Nominal 0/35 capacity	kW	20.77	31.10
Sound power level (L _{WA}) according to EN 12102 at 0/35	dB(A)	47	
Rated voltage		400 V 3N ~ 50 Hz	
Refrigerant quantity (CO ₂ equivalent)	tonnes	Top cooling module: 3.55 Bottom cooling module: 3.90	Top cooling module: 3.02 Lower cooling module: 4.39
Height/width/depth	mm	1800 / 600 / 620	
Weight of complete heat pump	kg	335	351

¹⁾Scale for system's efficiency class, room heating: A+++ – G. Reported system efficiency takes the product's temperature regulator into account. ²⁾Scale for product's efficiency class, room heating A+++ – D.

Ground source heat pump

NIBE F1345



NIBE F1345 is a powerful and flexible ground source heat pump that is available in output sizes 24, 30, 40 and 60 kW. Up to 9 NIBE F1345s can be combined in a single system to cover output requirements of up to 540 kW.

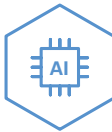
NIBE F1345 has a high seasonal performance factor and, with less than 5 tonnes of CO₂ equivalent refrigerant quantity per cooling module. Two large compressors make NIBE F1345 perfect for properties with larger heating requirements. The compressors switch on and off automatically for better output regulation, a longer operating range, less wear and tear, and improved operational reliability.



A powerful and flexible system that covers output requirements of up to 540 kW.



Reliable system with efficient output regulation and no requirement for annual inspection.



Smart technology with user-friendly control for easy remote control.

A+++

System's efficiency class for room heating, 35°C

A++

System's efficiency class for room heating, 55°C

NIBE F1345		24 kW	30 kW	40 kW	60 kW
System's efficiency class, room heating 35/55°C ¹⁾		A+++/A++			
Product's efficiency class room heating 35/55°C ²⁾		A+++/A++			
SCOP _{EN14825} average climate, 35/55°C		4.8/3.8	4.7/3.6	4.8/3.8	4.6/3.7
SCOP _{EN14825} cold climate, 35/55°C		5.0/4.0	4.9/3.8	5.0/3.9	4.7/3.8
Nominal heating output (P _{designh})	kW	28	35	46	67
Output data in accordance with EN 14511 - Nominal 0/35 capacity	kW	23.00	30.72	39.94	59.22
Output data in accordance with EN 14511 nominal 0/35 – COP		4.65	4.44	4.49	4.32
Sound power level (L _{WA}) according to EN 12102 at 0/35	dB(A)	47			
Rated voltage		400 V 3N ~ 50 Hz			
Refrigerant quantity (CO ₂ equivalent)	tonnes	2 x 3.55	2 x 3.55	2 x 3.02	2 x 3.55
Height/width/depth	mm	1800/600/620			
Weight of complete heat pump	kg	320	330	345	346

¹⁾Scale for product's efficiency class, room heating A+++ to D. ²⁾Scale for system's efficiency class for room heating: A+++ – G. Reported system efficiency takes the product's temperature regulator into account.

Hot water cylinders, buffer vessels and ventilation



Hot Water Cylinders and Buffer Vessels NIBE VPB 500-1000



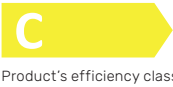
VPB is a range of efficient water heaters, with a wide range of applications, which are suitable for connections to heat pumps. All models are intended for properties with large hot water requirements. They can also be suitable for connection in parallel for use in larger properties.



Designed for connection to a heat pump



Efficient, detachable insulation.



Product's efficiency class



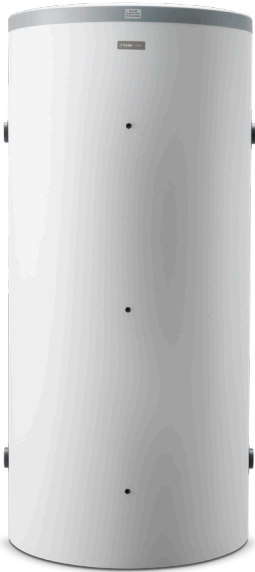
All models are designed for buildings with large hot water requirements.

VPB		VPB 500	VPB 750	VPB 1000
Corrosion		Copper		
Volume	Litre	486	747	992
Volume, coil	Litre	6	7	2x6
Net weight	kg	158	220	270
Equivalent amount of hot water (40°C)	Litre	590	890	1180
Max pressure, primary side	bar/MPa	10/1.0		
Max pressure, water heater	bar/MPa	10/1.0		
Efficiency class*		C		
Height/Diameter	mm	1757/852	1976/947	2051/1052

*Scale for efficiency class: A+ to G.

Hot Water Cylinders and Buffer Vessels

NIBE UKV



NIBE UKV 40,100,200,300,500,750 and 1000 are buffer tanks used together with heat pumps to increase the volume of water in the system for more stable operation.



Volume expansion for the heating system



For a highly efficient and safe climate system without heat spikes



Chilled water options for NIBE UKV 200 and NIBE UKV 300 for systems with active cooling

B

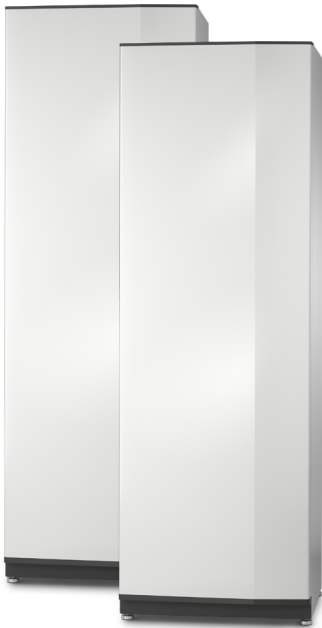
Product's efficiency class for NIBE UKV 40

		40	100	200	300	500	750	1000
Efficiency class ¹⁾		B	C					
Max. temperature in the tank	°C	95			85			
Max. working pressure in the tank	(bar)	6			10		3	
Weight	kg	16	31	61	83	110	170	200
Volume	litre	39	98	218	296	496	741	992

¹⁾Scale for efficiency class: A+ to G.

Storage tank

NIBE VPB S300 VPBS S300



The NIBE VPB S300 and VPBS S300 are efficient hot water tanks which is designed for connection to a NIBE heat pump. The NIBE VPBS S300 can also be docked to solar panels.

The NIBE VPB S300 and the ground source heat pump NIBE S1155 have a customised design, providing a stylish system solution with the option of concealed piping between the products. The storage tank has insulation made of polyurethane, which provides very good heat insulation.



Efficient hot water tank designed for connection to a heat pump or other energy source.



Stylish design for customisation with NIBE S-Series heat pump with minimal heat loss.



A part of your energy-saving smart home in combination with a NIBE S-Series heat pump.

C

The products efficiency class.

Type		NIBE VPB S300	NIBE VPBS S300
Efficiency class ¹⁾		C	
Corrosion		Stainless	
Volume	l	282	277
Volume, solar coil	l	–	0.8
Volume, charge coil	l	8.8	2
Net weight	kg	101	137
Equivalent amount of hot water (40°C)	l	376	354
Max pressure, primary side	bar/MPa	3 / 0.3	
Max pressure, water heater	bar/MPa	10 / 1.0	
Max recommended heat pump size	kW	12	
Height / Width / Depth	mm	1800 / 600 / 600	

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

Exhaust air module

NIBE FLM S45



The NIBE FLM S45 is an exhaust air module with a built-in fan, specially designed to combine the recycling of mechanical exhaust air with a NIBE ground source heat pump, providing an integrated solution for ventilation, hot water and heating.

The NIBE FLM S45 has a high fan capacity and low noise level. Energy is recovered from the ventilation air; even when the heat pump is not in operation, energy is stored in the ground or soil collector and exhaust air energy is thus used efficiently.



Provides an integrated solution for ventilation, hot water and heating



Efficient even when the heat pump is not in operation.



Part of your smart home - control your ventilation online using myUplink.

NIBE FLM S45		
Supply voltage	V	230 V NAC 50 Hz
Max. drive power in circulation pump	W	70
Fan drive power	W	175
Enclosure class		IP 21
Max. airflow	m³/h	350
Lowest temperature, incoming brine	°C	-8
Recommended maximum temperature, incoming brine	°C	15
Highest temperature, outgoing secondary brine	°C	30
Lowest pressure, brine	MPa/bar	0.02/0.2
Highest pressure, brine	MPa/bar	0.3/3
Noise level (LwA)	dB	36-46
Height/width/depth	mm	396/600/556
Weight	kg	35

Heat recovery ventilation unit

NIBE ERS S10



The NIBE ERS S10 is a heat recovery ventilation unit with high temperature efficiency up to 90% and low energy consumption. The heat recovery ventilation unit is used in houses with areas up to approx. 300 m².

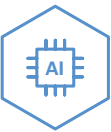
The NIBE ERS S10 is designed for installation with a NIBE ground source heat pump or a NIBE air source heat pump for a complete heating and ventilation system. The heat recovery ventilation unit is easily controlled by the heat pump.



Heat recovery ventilation unit with temperature efficiency and low energy consumption.



Together with NIBE VVM S320 it provides a solution in houses with balanced ventilation



In combination with a NIBE S-Series heat pump or indoor module - a part of your energy-saving smart home



Product efficiency class and tap profile for hot water.

NIBE ERS S10-400		
Efficiency class ¹⁾		A
Supply voltage		230 V – 50 Hz
Fuse	A	10
Fan drive power	W	85 x 2
Enclosure class		IPX1
Filter type, exhaust air filter		Coarse
Filter type, supply air filter		ePM1-55%
Noise level (L _{WA}) ²⁾	dB (A)	47
Ventilation connection	mm	Ø160
Connection for condensation water drain	mm	G32
Length of supply cable	m	2.4
Length of control cable	m	2.0
Height/width/depth	mm	900/600/612
Weight of complete heat exchanger	kg	40

Heat recovery ventilation unit

NIBE ERS 20-250

The heat recovery ventilation units ERS 10 and ERS 20 are both easy to install together with a NIBE heat pump or indoor module. They can be controlled from the display of the heat pump.



The unit is intended for both new installations and replacement in houses or similar. ERS is suitable for ventilation systems where high temperature efficiency and low energy consumption are required. ERS 10 is normally used in homes with an area of up to approx. 300 m², ERS 20 to approx. 200 m².



Provides a complete exhaust and supply air solution for NIBE ground source or air/water heat pump.



ERS is controlled via the ground source heat pump / indoor module, which means that all the measurement values are visible in the main product's display



Up to 92% recovery.

A

The product's efficiency class.

NIBE ERS 20-250			
Supply voltage		230 V ~ 50 Hz	
Fuse		A	
Driving power fan	W	100 x 2	
Enclosure class		IP21	
Filter type, exhaust air filter		G4	
Filter type, supply air filter		F7	
Sound pressure label L _{W(A)}	dB(A)	47.4/50 ¹²	
Ventilation connection	mm	Ø125	
Connection, condensation water drain	mm	Ø15	
Length, supply cable	m	2.4	
Length, control cable	m	2.0	
Height / Width / Depth	mm	241/1202/673	
Weight	kg	25	

¹287 m³/h (80 l/s) at 50 Pa
²105 m³/h at 50 Pa / 250 m³/h at 140 Pa (at 1 m)





Rural Stone Schoolhouse NIBE S1255-12 Ground Source

High in the hills of the Yorkshire Dales, above Ilkley, is a rural stone schoolhouse. Built in the 1900’s, this traditional property is owned by Adam Clark, a practicing Architect who specialises in low energy and Passivhaus projects. The property has been cleverly renovated with heavyweight construction to act as a heat store and extensions built and designed using modern construction methods to match the age of the existing property.

The final goal of the schoolhouse renovation was to replace the existing natural gas boiler system and install low carbon and renewable energy technologies that would not only decarbonise the property but meet Adam’s sustainability aspirations and assist him in gaining first-hand experience that he can use with his clients and staff.

To cover the large site, two NIBE S1155-12kW Ground Source Heat Pumps (GSHPs) were installed in series to provide both space and water heating. The availability of a paddock behind the garage served as a suitable location for the 1000m ground loop array, with the two S-series GSHPs housed remotely in the garage. The hot water is piped to and from the house through underground Rauvithern insulated pipework – removing the bulk of the previous gas boiler system from the main property and placing it in the garage. Alongside the two GSHP units, were installed a 300 litre Megacoil hot water cylinder and a 200 litre NIBE UKV buffer tank, to match the properties space and water heating demands all year round and make the system as energy efficient as possible.

Moreover, to assist in reducing energy bills and utilise renewable energy sources, a 4kW solar PV array was added to the property, further increasing the efficiency of the heating system, future-proofing the household and adding in the ability to sell energy back to the grid during periods of energy surplus. An

additional Maximum Power Point Tracking (MPPT) EcoBoost unit was installed to help optimise the system and uses any excess electricity generated by the PV array to heat the hot water, thus, reducing demands on the heat pumps.

The system, funded through the Domestic Renewable Heat Incentive (RHI) scheme. It has achieved a Seasonal Performance Factor (SPF) of 3.4, due in part to the 1000 linear metres of ground pipework and dual, efficient S-series GSHP plants. It is estimated that annual cost savings will be in the region of £500 at typical energy prices.



“Through recommendation from some friends who had a ground source heat pump installed by Dewsbury based renewable experts Warmaway, we contacted their Director, John Redgwick, who couldn’t have been more helpful and professional.

“With many years experience of ground and air source heat pump installations, their initial survey and calculations were spot on and their original quotation was easy to understand, and split into sensible stages.

“Whilst the installation was carried during late autumn/early winter, complete with torrential rain and snow, the Warmaway team completed the works on schedule, in time for Christmas.

“It was a big moment, when the gas boiler was removed and we switched over to the two NIBE heat pumps, connected to the 1000 linear metres of ground pipework in our adjoining field. The pumps kicked in and they have worked perfectly ever since.

“We have a bountiful supply of hot water and

constant heating throughout the winter, with the satisfaction of knowing that we are helping the planet. We now have no fossil fuel appliances with the exception of two wood burning stoves.

“Whilst the recent energy crisis has seen the doubling of our electricity cost per unit, we hope that the efficiency of the NIBE units, coupled with the solar panels and the excellent installation from Warmaway will pay dividends in the long run.”





Why use a NIBE Pro Installer?

NIBE understands the importance of quality installations, which is why we have built an extensive network of highly skilled, trusted installers across the country.

Our installers will assist you in choosing the right NIBE system to meet your heating needs, ensuring your heat pump is installed correctly so it can perform to its full potential.



NIBE product trained



Offer extended warranties



Experienced fitting NIBE technology



Offer full home solution



MCS certified, giving you access to the BUS Grant





Every day, we work to make the world better

Right from the start, we have been committed and focused on developing new methods for better energy efficiency. In this way, NIBE plays an important role in the global transition to a more sustainable society. And we're proud of that.

We also know how complex the issue of sustainability is, and how important it is to act responsibly as a company when it comes to our own employees and suppliers, as well as the impact our products have on the climate and society around us throughout their life cycle – a task we take very seriously.

Sustainability in different areas

We work with business responsibility throughout our entire value chain, and ethics is an important part of our business. As a customer, you should be able to trust us. Environmental responsibility is also an important part of our entire processing chain, which begins with our suppliers and ends with you, the customer. This means that we strive to reduce the environmental and climate impact of our products throughout their entire life cycle.

The key to achieving our goals today and in the future is also to be able to retain and attract new, competent, committed employees. As part of society, we must also act responsibly as a company, for example by engaging in social projects, both locally and globally.

We support the UNGC and the goals adopted by the UN as part of the 2030 Agenda for Sustainable Development

Since 2014, NIBE has been committed to following the 10 principles of the United Nations Global Compact (UNGC). The UNGC is a voluntary initiative based on commitments from company management to implement sustainability principles and actively enter into a partnership to support the UN's long-term goals.

In September 2015, the member states of the UN adopted the Sustainable Development Goals (SDGs). The 17 sustainability goals guide every member's commitment to establish a clear plan and, by 2030, to take necessary measures to create long-term sustainable development, end extreme poverty, combat the climate crisis and reduce inequalities and injustices in the world. We have chosen to work primarily with 6 of the 17 global goals set out in Agenda 2030.

NIBE's commitment to Agenda 2030

	7	Increase the proportion of products based on renewable energy and meet the market's need for energy-efficient and clean energy solutions.
	8	Promote a safe and secure working environment, protect workers' rights, ensure decent working conditions both in workers' own operations and in the supply chain, and safeguard employment and growth.
	9	Make production more sustainable by using resources efficiently, using clean and environmentally friendly technologies and allocating funds to research and development.
	11	Provide resource-efficient and climate-adapted components, products and solutions that contribute to sustainable cities and secure infrastructure.
	12	Apply sustainable methods for handling chemicals and reducing emissions to air, water and land. Conserve resources, minimise waste, recycle and reuse on a greater scale. Report sustainability information transparently in our reporting cycle.
	16	Respect and uphold national and cross-border legislation, and work actively against corruption in all forms. Create systems for internal monitoring of legal compliance and compliance with ethical business principles.



Read more about our sustainable energy solutions at www.nibe.co.uk

Ground source heat pumps

Ground source heat is stored solar energy harvested from deep within the ground, the bottom of lakes or just a few metres below your lawn. With a ground source heat system, you can create a pleasant indoor climate, and not only supply your home with heating and hot water but also cool it down on warm summer days. This kind of renewable energy means that you can lower your energy bills AND help the planet at the same time.

Air source heat pumps

With the help of an air source heat pump, you can keep your home warm in winter and cool in summer, while lowering your energy bills at the same time. By harnessing one of nature's free and renewable energy sources, you can create a pleasant indoor climate with a low environmental impact.

Exhaust air heat pumps

By installing an exhaust air heat pump, you can easily and effectively supply your home with heating, hot water and ventilation. Create a pleasant indoor climate by reusing the energy from the warm air as it passes through your ventilation system.

Solar panels

Start generating your own energy with solar products from NIBE. Plus, connecting the system to your intelligent heat pump will multiply the energy you harvest. By integrating the products in one system, you can reduce your energy bills and use renewable energy effectively.

Water heater

NIBE has been creating water solutions for over 60 years. Our complete range of hot water solutions complements our selection of heat pumps.

Sustainable energy solutions since 1952

For 70 years, NIBE has been producing energy-efficient and sustainable climate solutions for your home. It all started in Markaryd, in the Swedish county of Småland, and we value our Nordic heritage by harnessing the power of nature. We combine renewable energy with new smart technology to offer efficient solutions, so that together we can create a more sustainable future.

Whether it's a cold winter's day or a warm summer's afternoon, the temperature inside your home must be adjusted to ensure your comfort at all times, whatever the weather. Our wide range of products provide your home with heating, hot water, ventilation and cooling, so that you can create a pleasant indoor climate with a low impact on nature.

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