Air/water heat pumps from NIBE

Nature can be warm and loving, as well as cold and fierce. She is our greatest source of energy, and we depend on her to bring life into everything around us.

Being born in the harsh environments of the Nordics means we are not only used to strong climate contrasts, we have to thrive no matter the circumstances.

Whether it's a freezing winter or a hot summer afternoon, the need for a balanced indoor climate have always been an essential part of our everyday life.

Our products provide cooling, heating, ventilation and hot water to your home, enabling you to regulate your energy consumption, creating the perfect indoor climate. And by using local natural power, together we can build a more sustainable future.

Indoor comfort is in our nature

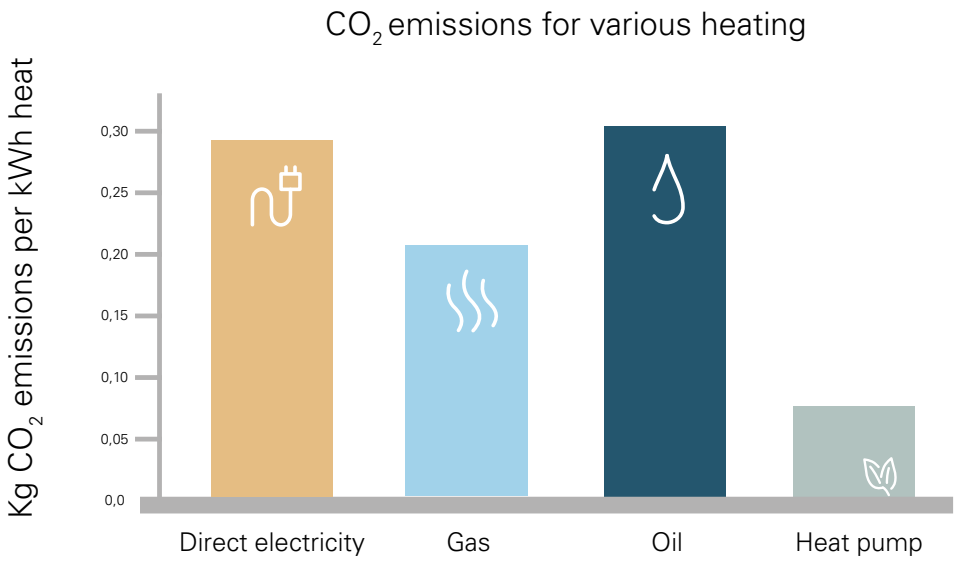
Nature inspire us to create the perfect climate conditions for our everyday lives. Welcome to our world of indoor comfort.

New times call for a new approach

The topic of climate issues has never been more discussed than today. Taking action and actually changing the way we interact with our planet's resources has become a necessity that none of us can afford to ignore.

A majority of the harmful emissions from an average home is caused by its heating and hot water systems. Oil, coal and gas needs to be replaced by energy sources that don't cause irreversible damage to our nature.

With over 50 years of manufacturing climate solutions, we invite you to take part in building a more sustainable future. We stay true to our legacy by harvesting natural energy, and by combining it with new smart technology we can offer even more efficient solutions that benefit everyone. Our wide range of products provides not only cooling, heating, ventilation and hot water to your home – it also does so with minimal impact on nature.



Source: EEA (European Environment Agency)

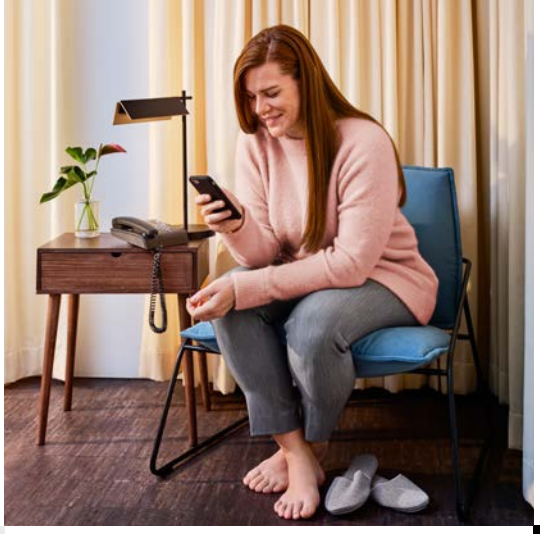
Start with a heat pump from NIBE

When making the switch from fossil fuels to renewable energy, you will experience benefits across the board. Not only will you do the environment a favour, you will save money by doing so.

With a heat pump from NIBE, you can create a perfect indoor climate by using renewable energy from your local surroundings. It immediately starts to deliver an environmental payback in the form of reduced energy consumption and emissions.

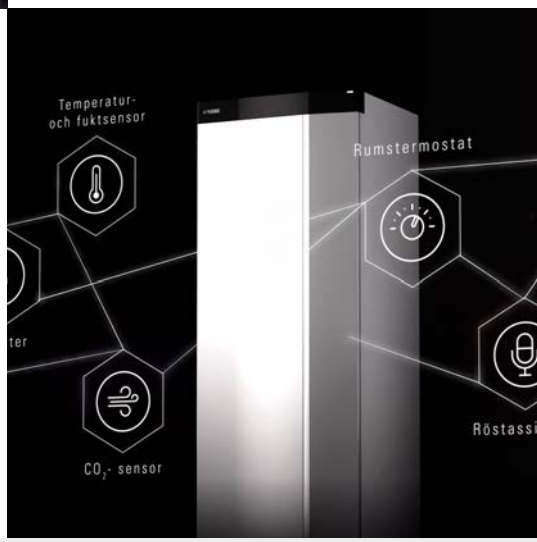
Since electricity is not the main energy source for the heat pump, the amount of electricity required is relatively low. It is only needed to drive the pump and enable the heat extraction process, allowing you to save up to 75% of your energy costs. With energy prices continually rising, you're unlikely to regret your decision. In fact, you'll start enjoying savings from the first month.

Harvesting energy from air



The NIBE S Series

- Timeless, elegant design
- Integrated wifi connection
- Touchscreen with swipe function



- Weather control
- Wireless software updates
- A part of the smart home
- Support for Google home*

**)Not available in all countries*

Welcome to NIBE's smart future!

The world is changing. Continuing technological development means a better future for everyone. NIBE is now taking the next step towards the future of heat pump technology with the launch of the NIBE S Series.

In today's smart homes, everyday technology is no longer sufficient. Devices that were previously incompatible online are now part of an intelligent network, designed to be smart and efficient.

A new digital platform is being launched, making life easier for both installers and end consumers. It will help to reduce costs whilst creating a perfect indoor climate, suited to everyday life. We will be a natural part of the connected home, giving our consumers greater opportunities to save energy for a greener, healthier world.

This is a technological advancement that will provide opportunities we cannot yet understand. At the same time we're future-proofing our products for the smart home.

NIBE works in-house with its own innovators and developers. The team has worked hard on the technological development – with many advantages for our end users as a result.

The heat pumps have a new design with a touchscreen and a new interface. The design is stylish and has a Scandinavian presence throughout.

In a smart home, wifi is standard. Naturally, this also applies to our new heat pumps, which no longer need to be connected via a cable.

With continuous technological advancement, we don't know exactly what we will be connecting to our heat pumps in 10 years' time. But whatever it is, we must ensure we have the product capability. One of the major advances we can see today is the improved efficiency of communication between the user and installer. It's also becoming easier, faster and more reliable for installers to troubleshoot remotely. It's now easy to diagnose disruptions without needing to be near the heat pumps.

Today's heat pumps are constantly becoming easier to connect to. In the future, it will be possible to combine existing and new energy sources, creating different system solutions.

To maintain our position at the leading edge of heat pump technology, we are continuing to develop smarter solutions that can be connected, identify needs and create opportunities in the right place at the right time. And in everything we do, we prove that the future is in our nature.

The new NIBE S Series

It’s easy to be smart

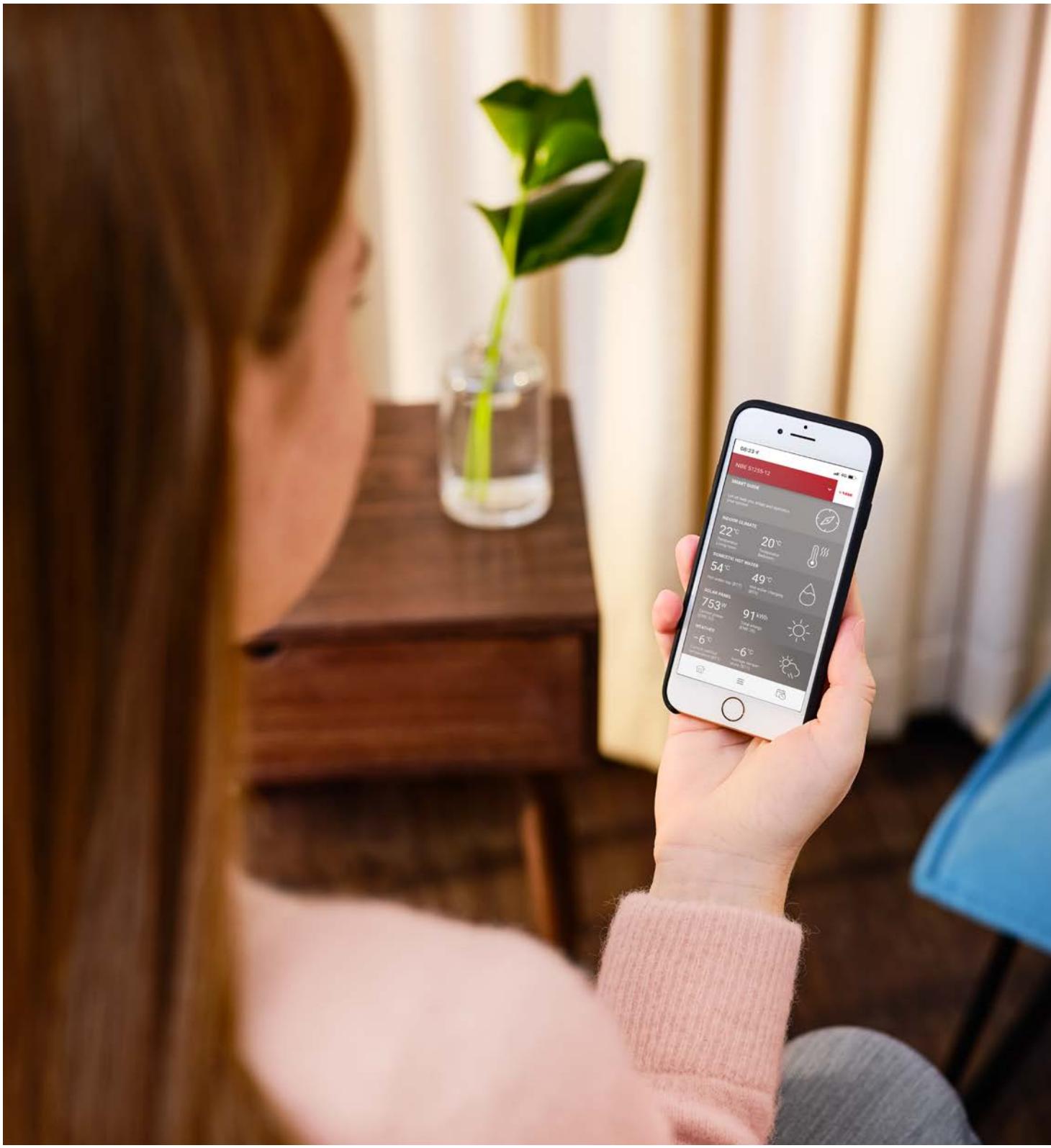
The demands of everyday life are constantly growing.
We’re about to make it easier for you.

The new S Series from NIBE features an elegant new look with a push-to-open aluminium door. A touchscreen control lets you swipe through the updated interface. With integrated wireless connectivity, you can connect your unit anywhere, anytime. It also has support for voice assistants*, making it a natural part of your connected home.

The connected online system makes sure everything runs smoothly. By adjusting the temperature to your daily patterns, you get maximum comfort and minimum energy consumption. Both cheaper and greener. All you have to do is sit back and relax.

We make it easy to be smart.

**Not available in all countries*


22°C
20°C
54°C
49°C
753W
91kWh
-6°C
-6°C

Always updated

The new NIBE S Series is a step into the future of digitalisation.

As technology develops, there are new opportunities to connect and optimise our daily lives. NIBE is now taking a great step in making heat pumps the heart of the smart home.

With an integrated wifi connection and the new myUplink app, you can control your indoor climate in a way suited to you.

NIBE are constantly working to develop the software in your heat pump. When it's time to update your software, our new technology platform enables us to send an update directly to your NIBE heat pump. All you need to do is authorise the update on your heat pump's touchscreen. The latest software is always available at the press of a button. This helps to optimise operations and maximise energy savings.

The new NIBE S Series easily becomes a natural part of your smart home, both now and in the future.

Air/water heat pumps

Thanks to the endless supply of air, one of nature's free and renewable energy sources, you will be able to maintain a perfect indoor climate for many years to come.

Heat pump technology is based on a very simple, well-known principle. Using a vapour compression cycle, it works in a similar way to any domestic refrigerator. By extracting heat energy from the outside air, even at lower temperatures, a NIBE air/water heat pump can heat your home and supply it with hot water, as well as invert the process to keep you cool during the warmer months.

The NIBE air/water systems consist of an outdoor module combined with an indoor or control module. This forms a complete climate system that is easy to install, operate and maintain. The modules work with any kind of terrain and are compatible with a variety of energy sources, and additional solutions for ventilation and pool heating can be added to the system.

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

PRODUCTS

The new NIBE S Series	Indoor module	NIBE VVM S320	
	Control module	NIBE SMO S40	
	Exhaust air module	NIBE S135	
	Accessories	NIBE ERS S10-400 NIBE RMU S40	
The NIBE F Series	Air/water heat pumps	NIBE F2120 NIBE F2040 NIBE SPLIT HBS NIBE SPLIT BA-SVM	
	Indoor module	NIBE VVM 225 NIBE VVM 310	NIBE VVM 320 NIBE VVM 500
	Control module	NIBE SMO 20/40	

New NIBE S series

NIBE VVM S320
Indoor module

The NIBE VVM S320 is designed for combination with any NIBE air/water heat pump to create a highly efficient climate system for your home.

The NIBE VVM S320 has a smart, user-friendly control system which provides efficient heating/cooling and hot water with high performance. The NIBE VVM S320 is ready for installation since the water heater, electric additional heat, self-regulating circulation pump, filling valve, manometer, safety valve and expansion vessel are included.

With integrated wifi, the S Series is a natural part of your connected home. Smart technology adjusts the indoor climate automatically while you're in complete control from your phone or tablet. Giving maximum comfort and minimum energy consumption, while doing nature a favour at the same time.

NEW!

- Combine with a NIBE air/water heat pump for an integrated system.
- Smart, user-friendly control system.
- User-friendly touch control and integrated wireless connectivity with energy saving smart technology for maximum comfort.

NIBE VVM		*S320*
Additional power	kW	9 (3x400V) / 7 (1x230V)
Tap volume 40°C during Medium		210 l
Main features		Complete and plug-in solution for easy installations
Connection		Top
Rated voltage	V	400V 3N~50Hz 230V 3N~50Hz 230V~50Hz
Height / Width / Depth	mm	1800/600/622
Weight	kg	R: 123 / E: 163
Compatible outdoor units		NIBE F2040-6 / F2040-8 / F2040-12 / F2120-8 / F2120-12 / F2120-16 AMS10-6 + HBS05-06 / AMS10-8 + NIBE HBS05-12 / AMS10-12 + NIBE HBS05-12 / AMS 20-6 + HBS 20-6

NIBE SMO S40
Control module

The NIBE SMO S40 gives optimized control of the climate system and is designed to be combined with NIBE air/water heat pumps to provide an integrated climate system for homes and properties.

The NIBE SMO S40 offers maximum flexibility when it comes to system solutions. The control module can be connected to components such as a water heater, additional heat sources and other accessories specific to a customised installation. Up to eight NIBE air/water heat pumps can be connected to SMO S40

The NIBE S Series is a natural part of your connected home. Smart technology adjusts the indoor climate automatically while you're in complete control from your phone or tablet. Giving maximum comfort and minimum energy consumption, while doing nature a favour at the same time.

NEW!

- Smart, user-friendly system with touch control for maximum flexibility.
- Property solutions with up to eight NIBE air/water heat pumps.
- In combination with a NIBE air/water heat pump – a part of your energy-saving smart home.

NIBE SMO S40		
Controls up to		8 heat pumps
External heatsource		3 steps for electrical heater or boiler with mixing valve
Self-regulating circulator pump		CPD11, available in 2 sizes
Supply voltage		230V~50Hz
Enclosure class		IP21
Height / Width / Depth	mm	350/540/110
Weight	kg	5
Compatible outdoor units		NIBE F2120-series, NIBE F2040-series, NIBE AMS + HBS-series, NIBE AMS 20 + HBS 20-series
Accessories		Wide range including extra heating circuit, pool, solar, ventilation heat recovery unit, room display etc.

NIBE S135

Exhaust air module

The NIBE S135 is an exhaust air module designed for docking to a NIBE air/water heat pump and a NIBE VVM indoor module or NIBE SMO control module. The NIBE S135 uses the heat that is found in the house's ventilation air to heat the house and hot water, at the same time as ventilating the house. In installations with cooling, hot water and cooling can be produced at the same time.

The exhaust air module provides an improved seasonal performance factor and has a low noise level and high ventilation capacity. The NIBE S135 is easy to control through the heat pump's indoor module.

The NIBE S Series is a natural part of your connected home. Smart technology adjusts the indoor climate automatically while you're in complete control from your phone or tablet. Giving maximum comfort and minimum energy consumption, while doing nature a favour at the same time.

NEW!

A+

The product's efficiency class.

- Heating, hot water, cooling and ventilation in one system.
- Improves your seasonal performance factor combined with a NIBE air/water heat pump.
- In combination with a NIBE S Series indoor- or control module – a part of your energy-saving smart home.

NIBE S135		
Space heating efficiency class 35°C / 55°C [1]		A+
Space heating efficiency class of the system 35°C / 55°C [2]		A+
Supply voltage		230 V ~ 50 Hz
Enclosure class		IP21
Sound power level (L_{WA}) according to EN 12102 at 0/35 [3]	dB(A)	47.0
Min air flow, air temperature <10°C	l/s	25
Height / Width / Depth	mm	490–515 / 600 / 605
Weight	kg	50

[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] The value varies with the selected fan speed. Visit nibe.eu for more extensive sound data including sound to channels.

NIBE ERS S10

Heat recovery ventilation unit

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/water heat pump for a complete heating and ventilation system. The heat recovery ventilation unit is easily controlled by the heat pump.

The NIBE S Series is a natural part of your connected home. Smart technology adjusts the indoor climate automatically while you're in complete control from your phone or tablet. Giving maximum comfort and minimum energy consumption, while doing nature a favour at the same time.

NEW!

A

The product's efficiency class.

- Heat recovery ventilation unit with high 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.

NIBE ERS S10-400		
Efficiency class[1)]		A
Supply voltage		230 V ~ 50 Hz
Fuse	A	10
Driving power fan	W	85 x 2
Enclosure class		IPX1
Filter type, exhaust air filter		ISO Coarse
Filter type, supply air filter		ePM1 55%
Sound pressure level ($L_{P(A)}$)[2)]	dB(A)	47
Ventilation Ø	mm	160
Condensation water drain		G32
Length, supply cable	m	2.4
Length, control cable	m	2.0
Height / Width / Depth	mm	900/600/612
Weight	kg	40

[1)] Scale for efficiency class: A+ to G. [2)] 295 m³/h (82 l/s) at 50 Pa.

NIBE RMU S40

Room unit

The NIBE RMU S40 is a room unit with 2,8" touch display with built in temperature and humidity sensors. It is used to control and monitor your NIBE S series heat pump/indoor module from another room in the house than the room where the heat pump is placed.

The NIBE S Series is a natural part of your connected home. Smart technology adjusts the indoor climate automatically while you're in complete control from your phone or tablet. Giving maximum comfort and minimum energy consumption, while doing nature a favour at the same time.

NEW!

- Room unit with 2,8" touch display with swipe function.
- Control and monitor your NIBE S series heat pump from another room.
- A part of your energy-saving smart home in combination with a NIBE S series heat pump.

NIBE RMU S40		
Connection		Wireless or wired to heat pump
Power supply		Wired to heat pump or via 5V USB supply
Plastic spacer (height / width / depth)	mm	88 / 88 / 8
Size (height / width / depth)	mm	85 / 64 / 16

Get a connected future with myUplink

The myUplink app allows you to control your smart heat pump from your smart phone.

With the launch of the smart S-Series, the newly developed myUplink app is also released, the key to your smart home and a connected future.

Simplicity and clarity have been leading principles in the development of myUplink. You will be able to find what you need instantly, without having to search around in the product display menu.

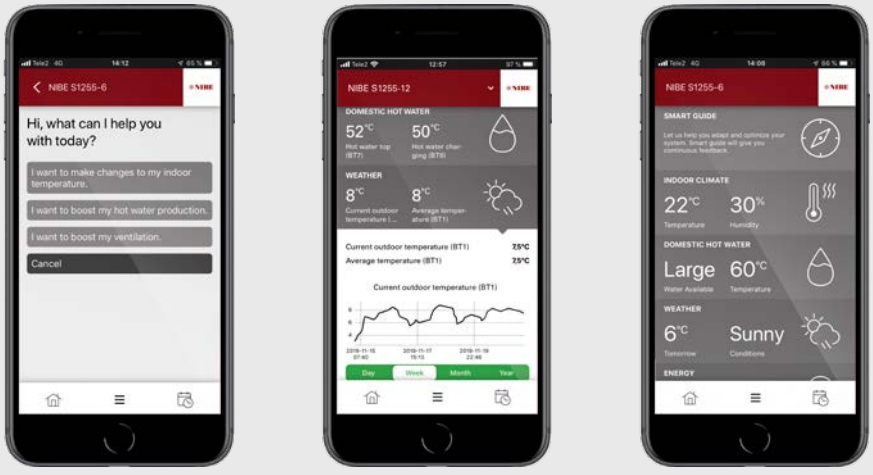
Via the new, simplistic, Scandinavian-designed interface, you can retrieve real-time data from your heat pump, monitor your installation from your smart phone or tablet and ensure that your heat pump is working flawlessly. Smart Price Adaption*, software updates, monitoring, alerts and weather forecast control are included as standard.

A premium subscription allows you to easily control and adjust your smart heat pump's settings, wherever you are. A premium subscription is also required for the IFTTT and Google home.

By allowing you control over your hot water and indoor climate, the app also helps you to make energy savings. Good for the environment and good for your wallet.

myUplink is an important element of our future products, and will be updated with new functions that increase comfort and reduce energy consumption.

Using a heat pump has never been easier.



*) *This requires a variable hourly tariff contract*
Not available in all countries

myUplink

Using the Internet and myUplink you can get a quick overview of the status of your heat pump and the heating in your property. This flexible solution allows you to easily monitor and control your heating and hot water production. If your system is affected by an operational disturbance you receive an alert via a push-message and an email, allowing you to react quickly.

- *An efficient tool that gives you quick and easy control over your property's heat pump, no matter where you are.*
- *Clear, easy to use system for monitoring and controlling heating and hot water temperatures for maximum comfort.*
- *Stores your heat pump's operational data, presented in a user-friendly graph.*

NEW!

myUplink

ALWAYS UPDATED

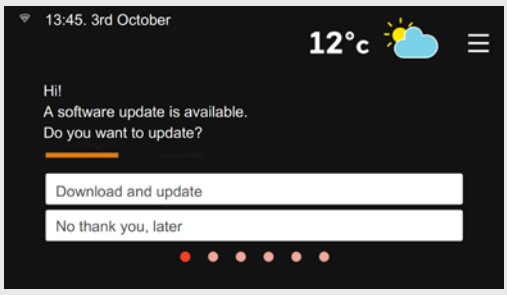
myUplink makes it possible to update the software wirelessly, giving you optimal operation with the latest functions. All you need to do is confirm the update in the heat pump's display.

WEATHER CONTROL

Weather control allows your heat pump to adapt to the weather forecast, a particularly good feature when weather changes rapidly. The smart heat pump is more proactive and knows when there's a predicted weather change, effectively managing the temperature change accordingly.

SMART PRICE ADAPTION*

This clever feature gives you the option to choose variable pricing for your energy plan. You can then automatically purchase energy when the price is low, and use self-produced or stored energy when the price is high.



**) This requires a variable hourly tariff contract*
Not available in all countries

NIBE F2120

NIBE F2120 is an inverter-controlled air/water heat pump which represent a real breakthrough when it comes to efficiency. With a seasonal performance factor in excess of 5.0*, the heat pump provides more than five times as much heat per year as an electric heater with the same energy consumption.
NIBE F2120 provides optimum savings since the heat pump automatically adapts to your home's output requirements all year round.

NIBE F2120 has a class leading working range and deliver a supply temperature of up to 65°C. Even at outdoor temperatures of as low as –25°C, it still provides a supply temperature of up to 63°C, while keeping the noise level to a minimum. NIBE F2120 has three-phase connection, which simplifies electrical installation.

A+++

Energy efficiency class package label, 35°C

A+++

Energy efficiency class package label, 55°C

- Breakthrough in efficiency with a seasonal performance factor of over 5.0*
- Class leading working range, supply temperature of up to 65°C, and 63°C at an outdoor temperature of –25°C.
- Minimal noise level, even at full output.

NIBE F2120		*8*	*12*	*6*	*20*
Efficiency class 35/55°C Product Label[1]		A+++/A++		A+++/A+++	
Efficiency class 35/55°C Package Label[2]		A+++/A+++			
The product's efficiency class/tap profile for hot water[3]		A/XL – A/XXL			
$SCOP_{EN14825}$ Average climate 35/55°C		4.8 / 3.8	4.8 / 3.8	5.1 / 3.9	5.1 / 3.9
Pdesign Average climate 35/55°C	kW	5.9 / 6.3	8.0 / 8.3	11.0 / 12.3	11.0 / 12.3
$SCOP_{EN14825}$ Cold climate 35/55°C		4.1 / 3.4	4.1 / 3.4	4.3 / 3.6	4.3 / 3.6
Pdesign Cold climate 35/55°C	kW	6.8 / 7.4	9.3 / 9.8	13.0 / 14.0	13.0 / 14.0
7/35 Heat capacity / COP, EN14511, nominal	kW	3.57 / 4.57	3.54 / 5.12	5.17 / 5.11	5.17 / 5.11
Sound power level (L_{WA}), EN12102 at 7/45, nominal	dB(A)	53 dB(A) for F2120-8, 12 / 55 dB(A) for F2120-16, 20			
Rated voltage		230V~50Hz / 400V 3N~50Hz		400V 3N~50Hz	
CO_2-equivalent (hermetically sealed refrigerant circuit)[4]	ton	5.01	5.43	6.26	6.26
Height / Width / Depth	mm	1070 / 1130 / 610	1165 / 1280 / 612	1165 / 1280 / 612	1165 / 1280 / 612
Weight (excluding packaging)	kg	170	180	185	

[1] Scale for the product's efficiency class room heating: A++ – G. [2] Scale for the system's efficiency class room heating: A+++ – G. Reported efficiency for the system also takes the temperature regulator into account. If the system is supplemented with an external additional boiler or solar heating the total efficiency of the system must be recalculated. [3] Scale for efficiency class hot water: A – G. [4] NIBE F2120 doesn't require annual inspection according to the F-gas directive.

**NIBE F2120 has a rating of SCOP > 5.0 (Average climate, Low temperature) and SCOP 4.3 (Colder climate, Low temperature) in accordance with European standard EN 14825:2013, i.e. the standard for determining the reference seasonal performance factor, SCOP. Applies to F2120-16 and -20.*

NIBE F2040

NIBE F2040 is an intelligent and compact inverter-controlled air/water heat pump. NIBE F2040 provides optimum 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 –20°C and at the same time supplies up to 58°C in supply line temperature. The effective cooling function allows the heat pump to deliver a comfortable indoor climate even at high outdoor temperatures.

A+++

Energy efficiency class package label, 35 °C

A+++

Energy efficiency class package label, 55 °C

- Compact heat pump that adapts to your home's requirements.
- High capacity even down to –20°C and effective cooling function.
- Energy-saving smart technology with user-friendly control.

NIBE F2040		*6*	*8*	*12*	*16*
Efficiency class 35/55°C Package Label[1)]		A+++/A++			
Efficiency class 35/55°C Product Label[2)]		A+++/A++	A++/A++		
Efficiency class and tap profile for hot water[3)]		A/XL – A/XXL			
$SCOP_{EN14825}$ Average climate 35/55°C		4.8/3.5	4.4/3.3	4.4/3.4	4.5/3.4
P_{design} Average climate 35/55°C	kW	4.8/5.3	8.2 / 7.0	11.5 / 10.0	14.5 / 14.0
$SCOP_{EN14825}$ Cold climate 35/55°C		3.7/3.0	3.6/2.8	3.6/2.9	3.7/2.9
P_{design} Cold climate 35/55°C	kW	4.0/5.6	9.0/10.0	11.5/13.0	15.0/16.0
7/35 Heat capacity / COP, EN14511, nominal	kW	2.67/5.32	3.86/4.65	5.21/4.78	7.03/4.85
Sound power level (L_{WA}), EN12102 at 7/45, nominal	dB(A)	50	54	57	61
Rated voltage	V	230 V 50 Hz, 230 V 2AC 50 Hz			
CO_2-equivalent (hermetically sealed refrigerant circuit)[4)]	ton	3.13	5.32	6.06	8.35
Height / Width / Depth	mm	791 / 993 / 364	895 / 1035 / 422	995 / 1145 / 452	1450 / 1145 / 452
Weight (excluding packaging)	kg	66	90	105	135

[1)] Scale for the system's efficiency class room heating: A+++ to G. Reported efficiency for the system also takes the temperature regulator into account. If the system is supplemented with an external additional boiler or solar heating the total efficiency of the system must be recalculated. [2)] Scale for the product's efficiency class room heating: A+++ to D. [3)] Scale for efficiency class hot water: A+ to F. [4)] NIBE F2040 doesn't require annual inspection according to the F-gas directive.

NIBE SPLIT HBS

NIBE SPLIT HBS is an intelligent and compact inverter-controlled air/water heat pump. The outdoor module NIBE AMS 10 is connected with refrigerant pipes to the NIBE HBS split box, which is located indoors. NIBE SPLIT provides optimum savings since the heat pump automatically adjusts to the property's output requirements all year round.

NIBE SPLIT HBS works down to an outdoor temperature of –20°C and at the same time supplies up to 58°C in supply line temperature. The effective cooling function allows the heat pump to deliver a comfortable indoor climate even at high outdoor temperatures.

A+++

Energy efficiency class package label, 35 °C

A++

Energy efficiency class package label, 55 °C

- Compact heat pump that adapts to your home's requirements.
- High capacity even down to –20°C and effective cooling function.
- Energy-saving smart technology with user-friendly control.

NIBE SPLIT		*AMS 20-6/ HBS 20-6*	*AMS 10-8, HBS 05-12*	*AMS 10-12/ HBS 05-12*	*AMS 10-16/ HBS 05-16*
Efficiency class 35/55°C Package Label [1]		A+++/A++			
Efficiency class 35/55°C Product Label [2]		A+++/A++	A++/A++		
The product's efficiency class/tap profile for hot water[3]		A/XL – A/XXL			
$SCOP_{EN14825}$ Average climate 35/55°C		5,08/3,58	4.4/3.3	4.4/3.4	4.5/3.4
$P_{designh}$ Average climate 35/55°C	kW	5,2/5,6	8.2 / 7.0	11.5 / 10.0	14.5 / 14.0
$SCOP_{EN14825}$ Cold climate 35/55°C		4,25/3,17	3.6 / 2.8	3.6 / 2.9	3.7 / 2.9
$P_{designh}$ Cold climate 35/55°C	kW	5,8/5,7	9.0 / 10.0	11.5 / 13.0	15.0 / 16.0
7/35 Heat capacity / COP, EN14511, nominal	kW	2,64/5,42	3.86 / 4.65	5.21 / 4.78	7.03/4.85
Sound power level $(L_{WA})_{EN12102}$ at 7/45, nominal	dB(A)	54	55	58	62
Rated voltage		230V ~50Hz			
CO_2-equivalent	ton	0,88	5.32	6.06	8.35
Height / Width / Depth – AMS 10	mm	640/800/290	750/880/340	845/970/370	1300/970/370
Height (with pipe) / Width / Depth – HBS 05	mm	565/404/472	565/404/472	565/404/472	565/404/472
Weight (excluding packaging) AMS 10 / HBS 05	kg	46/13	60 /15	74 /15	105/19.5

[1] Scale for the system's efficiency class room heating: A+++ – G. Reported efficiency for the system also takes the temperature regulator into account. If the system is supplemented with an external additional boiler or solar heating the total efficiency of the system must be recalculated. [2] Scale for the product's efficiency class room heating: A+++ – D. [3] Scale for efficiency class hot water: A+ – F.

NIBE SPLIT BA-SVM

The NIBE SPLIT BA-SVM is a compact indoor module suitable for air to water split systems. The outdoor module AMS is connected with refrigerant pipes to the NIBE SPLIT BA-SVM. The NIBE SPLIT BA-SVM provides optimum savings since the heat pump automatically adjusts to the property's output requirements all year round.

The NIBE SPLIT BA-SVM works down to an outdoor temperature of –20 °C and supplies up to 58 °C in supply line temperature. The effective cooling function allows the heat pump to deliver a comfortable indoor climate even at high outdoor temperatures.

A+++

Energy efficiency class package label, 35 °C

A+++

Energy efficiency class package label, 55 °C

- Combine NIBE SPLIT BA-SVM with a NIBE SPLIT heat pump for an energy-efficient climate system.
- High capacity even down to –20 °C and well-developed cooling function.
- Part of your smart home – Control your comfort online using NIBE Uplink.

BA-SVM		*10-200/6 E*	*10-200/12 E*	*10-200/6 E EM*	*10-200/12 E EM*	*10-200/6 R*	*10-200/12 R*
Efficiency class 35/55°C Product Label[2)]		A+++/A++	A++/A++	A+++/A++	A++/A++	A+++/A++	A++/A++
Efficiency class 35/55°C Package Label[1)]		A+++/A++					
The product's efficiency class/tap profile for hot water[3)]		XL/A					
Tap volume 40°C According (EN16147)	l	230					
Anti-corrosion protection		Enameled tank + titanium anode				Stainless steel tank	
Energy meter		no		yes		no	
Immersion heater	kW	9 (3x400V) / 4.5 (1x230V)					
Supply voltage	V	3x400, 1x230					
Height / Width / Depth		1600x600x610					
Net weight	kg	165					
Compatible heat pumps		AMS 10-6	AMS 10-8 AMS 10-12	AMS 10-6	AMS 10-8 AMS 10-12	AMS 10-6	AMS 10-8 AMS 10-12

[1)]Scale for the system's efficiency class room heating: A+++ – D. Reported efficiency for the system also takes the temperature regulator into account. If the system is supplemented with an external additional boiler or solar heating the total efficiency of the system must be recalculated. [2)]Scale for the product's efficiency class room heating: A+++ – G. [3)] Scale for efficiency class hot water: A+ – F.

A connected indoor system

We strive to maximise the outcome of every product carrying the NIBE name, while always focusing on the system as a whole through connectivity and flexibility. Controlling everything with its software, the system allows you to integrate products within your home to create a balanced indoor climate with minimal impact on the environment.

NIBE UPLINK

Freedom – anywhere, any time

Using the Internet and NIBE Uplink you can get a quick overview and the present status of your heat pump and the heating in your property. You get a good overall view where you can follow and control your heating and hot water production. If your system is affected by an operational disturbance you receive an alert via e-mail that allows you to react quickly.

- *An efficient tool that gives you quick and easy control over your property's heat pump wherever you are.*
- *Clear, easy way of monitoring and controlling heating and water temperatures for maximum comfort.*
- *Provides logging of heat pump parameters presented in a user-friendly history chart.*

IFTTT

A free web-based service that enables you to really make full use of your smart home technology. Connect products and services in your home for maximum comfort.

SMART PRICE ADAPTION

This is a clever feature if you have the option to choose variable pricing for your energy plan. You will then automatically purchase energy when the price is low, and use self-produced or stored energy when the price is high.

Indoor and control modules

The flexible indoor and control modules from NIBE provide efficient heating, cooling, and hot water supply at high performance. With our advanced technology, you will be able to control your indoor comfort from wherever you are.

The NIBE VVM indoor modules are all-in-one units that include a smart and user-friendly control system, water heater, electrical addition, self-regulating circulating pump, and further functions that will help you create an efficient indoor climate.

NIBE VVM 320 and NIBE VVM 225 also includes the filling loop, pressure gauges, safety valves and expansion vessel, everything needed for the normal installation.

The control modules, NIBE SMO, provide a flexible solution that easily can be customised. System components such as water heaters, additional heat sources, and other accessories are chosen depending on the specific setup.

- Intelligent integrated controller, advanced technology, easy to understand, simple to use.
- Control your comfort online and stay in touch with your system wherever you are via myUplink or Uplink also available as an app.
- Smart Energy Source function with NIBE VVM and NIBE SMO 40 for optimal integration of prioritised heating sources such as wood boilers.

NIBE VVM indoor modules

Heating

Each NIBE VVM indoor unit has a maximum recommended heating output to your climate system. Combining a larger heat pump will increase the energy coverage by the heat pump.

The NIBE VVM 310 and NIBE VVM 500 offers a two-circuits solution where the heating system flow is independent of the flow over the heat pump. The NIBE VVM 320 and NIBE VVM 325 has a single circuit system, which requires the heating system flow to be maintained not below a minimum level.

Domestic hot water

In NIBE VVM 310 and NIBE VVM 500, domestic hot water is prepared on demand in a coil tap. The NIBE VVM 320 has a built-in DHW storage tank of 180 litres.

Docking

NIBE offers a broad range of accessories, dockings, and system solutions for a complete climate solution.

Choosing the right NIBE VVM for my home

	NIBE VVM 320	NIBE VVM 225	NIBE VVM 310	NIBE VVM 500
				
Compatible outdoor units	NIBE F2120-8/12/16 NIBE F2040-6/8/12 NIBE SPLIT HBS-6/8/12	NIBE F2120-8 NIBE F2040-6/8 NIBE SPLIT HBS-6/8	NIBE F2120-8/12/16 NIBE F2040 all sizes NIBE SPLIT HBS all sizes	NIBE F2120 all sizes NIBE F2040 all sizes NIBE SPLIT HBS05 all sizes
Recommended maximum heating output	Up to 10 kW	Up to 12 kW	Up to 14 kW	Up to 22 kW
Electrical heater built-in	9 kW	9 kW (7 kW, 230V~50Hz)	12 kW	9 kW
Hot water volume, normal mode	240 l	175 l at 8 l/min	240 l at 8 l/min	390 l at 8 l/min
Docking	High power heat sources with external accumulators. No built-in accumulator volume.		Smaller heat sources without accumulator. Built-in accumulator, VVM 310: 270 l, VVM 500: 500l.	
Connection	Top	Bottom	Top	Top
Dimensions H/W/D (mm)	1800/600/622	1500/600/600	1800/600/615	1900/760/900
Net weight	R: 123 kg / E: 163 kg	R: 98 kg/ E: 137 kg	140 kg	240 kg

NIBE SMO Control module

NIBE SMO Control modules provide a flexible solution that you easily can customise, allowing you to integrate your heat pump with both existing or new systems. Additional heat sources and other accessories are chosen specifically for the actual set-up.

The entry model NIBE SMO 20 is a perfect choice for a system with heating, cooling and hot water supply. It handles one heat pump and has a limited range of accessories. Onboard functionality supports control of charge pump, 3-step addition both for heating and hot water, main circulator pump, a switching valve for hot water and an AUX relay.

The more advanced NIBE SMO 40 can handle up to eight heat pumps. It has all the onboard functionality that NIBE SMO 20 offers, but also allows you to add extra functions, advanced dockings, and also supports an external heat source.

Docking

NIBE offers a broad range of accessories, dockings and system solutions, all to make a complete climate solution. See section on additional functions to explore how you can create the perfect indoor climate for your needs.

Choosing the right NIBE SMO for my home

	NIBE SMO 20	NIBE SMO 40
		
Compatible outdoor units	All sizes of: NIBE F2120, NIBE F2040, NIBE SPLIT HBS05	
Controls up to	1 heat pump	8 heat pumps
Self-regulating circulator pump	Available in 2 sizes, CPD11	Available in 2 sizes, CPD11
External heat sources	3 step electrical heater	3 step electrical heater or boiler with shunt valve
Accessories	Room sensor	See the accessory range, page 18
Dimensions H/W/D (mm)	410/360/110	410/360/120
Net weight	4,3 kg	5,2 kg

For your everyday comfort

Additional functions

Turn your climate system complete with accessories, dockings, and solutions for your NIBE VVM and NIBE SMO 40 units.

Active cooling	Cooling is supported onboard on all NIBE VVM and SMO units. More advanced cooling system solutions are available within the accessory range. The extra climate system function can also be used for cooling applications.
Energy meter	Measures the amount of energy provided by the heat pump system.
External heat sources & thermal solar	Add an additional heat source to your system. Choose between an intermittent heat source such as a wood boiler, or a fully controlled such as oil boilers or electrical heaters. An intermittent heat source can be connected with the prioritization function. This way, if the heat source becomes available, it will become the primary energy source for your system. NIBE VVM 310 and NIBE VVM 500 offers an easy and efficient way of docking an external heat source using the built-in water volume as an accumulator. The NIBE VVM 500 also offers a built-in solar coil for easy connection of thermal solar panels. If the external heat source is of higher power and includes a buffer volume larger than the volume of the NIBE VVM, a solution with NIBE VVM 320 or NIBE SMO 40 is more suitable.
Extra climate system	Adding an extra climate system enable you to control different supply temperatures in the climate system. The extra climate system can be configured to be used for heating, cooling, or combined heating and cooling applications.

Exhaust air module	Recycles energy from the warm exhaust air inside the property.
GSM remote control	Communication unit for remote control and monitoring.
Modbus	Monitor and control your heat pump via Modbus.
Pool	Since the outdoor unit has an excessive heating capacity, the pool doesn't need to be taken in consideration when sizing the outdoor unit. Although, it depends on the type of your pool and how you use it.
PV solar package	Our solar panels are available in packs of 3.2 kW, 6.4 kW, 9.6 kW, 12.8 kW and 16 kW, and are suited to fit on most types roofs – tiles, metal roofing, seamed metal roof and felt roof.
Room display	Control and monitor your heat pump from rooms outside of the one containing the heat pump. The room display also has a built-in temperature sensor.
Ventilation	Ventilation solutions both for mechanical extract ventilation and balanced ventilation with heat recovery, HRV, are available. The solution for mechanical extract ventilation extracts energy from the exhaust air and put the energy back in the system and works in the same way as the outdoor unit. The HRV offers a balanced ventilation where heat from the exhaust is direct transferred to the incoming fresh air.
Water heaters	Regardless of your hot water needs, we have the right solution for you. Our full range of hot water solutions complement our selection of heat pumps and biomass boilers.

Smart, sustainable energy solutions from NIBE

NIBE Energy Systems offers a complete range of energy-efficient solutions for heating, ventilation, cooling, hot water and heat recovery that enable private and commercial property owners to choose a system that best suits their indoor climate needs.

Air/water heat pumps from NIBE
For your everyday comfort

Ground source heat pumps

Ground source heat is stored solar energy harvested from deep within the ground, the bottom of lakes or simply just below your lawn. The system supplies your home with both heat and hot water during colder winter months, as well as cooling during hot summer days.

Air/water heat pumps

Investing in an air/water heat pump, gives you two systems to choose from – Monobloc and Split. Both contains an outdoor and indoor module creating a complete heating and hot water system. Using one of nature's free and renewable energy sources, the air/water heat pump will in the long run pay for itself.

Exhaust air heat pumps

Installing an exhaust air heat pump is a profitable and easy way to warm up your home, supply it with hot water and keep it well-ventilated. Reuse the energy from the warm indoor air as it passes through your ventilation system to create an ideal solution for your modern home.

Solar panels

Start producing your own energy with solar products from NIBE. When connected to your smart heat pump, the pump till multiply the energy you harvest. By integrating products into one system, you can reduce your energy costs and use renewable energy efficiently.

Domestic boilers

If you want to use a renewable biofuel, a wood-fired boiler is an ideal solution for a countryside home. Combine a biomass boiler with other energy sources and connect these to your heat pump. Use Smart Energy Source to establish the most sustainable and economical indoor system.

Water heaters

Creating water solutions for over 60 years, NIBE now enables controlling your water heater remotely with smart technology. Recognizing user patterns and adapting to improve energy usage, our full range of hot water solutions complements our selection of heat pumps and biomass boilers.

A case of empowering people

When thrifty couple Malcolm and Christine West found their dream house, renewable heating systems weren't as established as they are today. Technological advancement now allows anyone to build a home reflecting their individual way of life.

Background

When the Wests' anthracite boiler reached the end of its lifespan, the couple faced the challenge of finding a new system for their countryside home. Put in this uncertain situation where they were unaware of the available options, they still knew they had to find a solution that would benefit their lifestyle financially.

Solution

With the help of a NIBE VIP installer and a thorough analysis of their specific needs, the couple was guided to the solution most suitable for their situation. Since they were living off-grid, the team of experts equipped the couple with a NIBE F2040 air source heat pump system, made up of an 8 kW ASHP and complete with hot water storage and intelligent controls for smarter usage. This provided them with a consistent and convenient supply of space heating and hot water all year round. The installer also made sure the property was sufficiently insulated to enable the system to perform at its full potential, as well as advising the couple to increase the loft insulation to ensure full heat-loss protection.

"By making this switch to a greener, less demanding system, the couple will save a lot of money in the long run."

Results

Thanks to the NIBE installer's expertise, a whole new system was recommended, designed and delivered, also making it possible for the Wests to utilise renewable energy from the outside air. By making this switch to a greener, less demanding system, the couple will save a lot of money in the long run. This also allowed the Wests to successfully be accepted onto the government's Renewable Heat Incentive scheme, where they will receive annual payments from the government for the upcoming seven years.

Your next step?

Find your local NIBE office at nibe.eu. They'll help you locate your nearest NIBE installer and select the best kind of heat pump for your needs.

NIBE Energy Systems
Box 14, 285 21 Markaryd Sweden
Tel. +46 433-27 30 00
nibe.eu

639205 KBR EN NIBE Air/Water 2120-15