



NIBE PRODUCT RANGE

Exhaust Air Heat Pumps
Ground Source Heat Pumps
Air/Water Heat Pumps
Air/Air Heat Pumps
Solar Programme
Water Heaters
Thermal Storage Tanks
Domestic Boilers



NIBE PRODUCT RANGE

EXHAUST AIR HEAT PUMPS

NIBE F750 – For heating, hot water, ventilation and heat recovery

NIBE F370 – For heating, hot water, ventilation and heat recovery

NIBE F470 – For heating, hot water, ventilation, pre-heated supply and heat recovery

NIBE SAM 40 – Supply air module, designed to combine recovery of mechanical exhaust air with pre-heated supply air

GROUND SOURCE HEAT PUMPS

NIBE F1145 – Ground source heat pump to be connected to external water heater

NIBE F1145 PC – Ground source heat pump to be connected to external water heater, integrated passive cooling function

NIBE F1245 – Ground source heat pump with integrated water heater

NIBE F1245 PC – Ground source heat pump with integrated water heater, integrated passive cooling function

NIBE F1155 – Inverter controlled ground source heat pump

NIBE F1255 – Inverter controlled ground source heat pump with integrated water heater

NIBE F1255 PC – Inverter controlled ground source heat pump with integrated water heater, integrated passive cooling function

NIBE F1345 – Ground source heat pump for residential and commercial use, high heat demand

NIBE ERS – Heat recovery ventilation

NIBE FLM – Exhaust air module

NIBE HPAC – Climate exchange module for passive and active cooling

AIR/WATER HEAT PUMPS - MONOBLOC PROGRAMME

NIBE F2030 – For residential use, heating power demand 5 – 12 kW

NIBE F2040 – For residential and commercial use, heating power demand 5 – 16 kW

NIBE F2300 – For residential and commercial use, heating power demand 12 – 22 kW

AIR/WATER HEAT PUMPS - SPLIT

NIBE SPLIT – Full SPLIT programme for residential use. Heating, cooling and hot water

INDOOR MODULES FOR AIR/WATER HEAT PUMPS

NIBE VVM 310 – Flexible all in one indoor module for heating and hot water

NIBE VVM 320/325 – Flexible all in one indoor module for heating and hot water

NIBE VVM 500 – Flexible all in one indoor module for heating and hot water

NIBE SMO 20/40 – Control module

NIBE HA-WH5 – Cylinders

NIBE F135 – Exhaust air heat pump module

AIR/AIR HEAT PUMPS

NIBE ARIA – Complete air/air heat pump system

NIBE Uplink

NIBE Uplink – Remote managing and monitoring of heat pumps

SOLAR PROGRAMME

NIBE Solar FP215 P/PL – NIBE premium thermal collectors

WATER HEATERS

NIBE VPB – For connection to heat pumps

NIBE VPBS – For connection to heat pumps and solar panels

NIBE F110 – For hot water and ventilation

NIBE MT-WH 2029 – For hot water and ventilation

NIBE F130 – For connection and combination with tank VPD 10

NIBE VPD 10 – For connection and combination with heat pump F130

NIBE DD-WH 10W – For hot water

THERMAL STORAGE TANKS

NIBE VPA – For connection to heat pumps and other heating sources

NIBE VPAS – For connection to heat pumps, other heating sources and solar panels

NIBE AHPS/AHP – Modul based extendable tank system for connection to heating sources and solar systems

NIBE UKVS 230 – Storage tank with solar coil

NIBE UKV – Buffer tank for heating systems

DOMESTIC BOILERS

NIBE PELLUX 100 20/30kW – Pellet boiler for combination with external storage tank or water heater

NIBE PELLUX 200 E – Pellet boiler with climate controlled shunt valve

NIBE VEDEX 3300 – Log boiler

NIBE GBM 10-15 – Gas-fired boiler

EXHAUST AIR HEAT PUMPS

**NIBE™ F750****ENERGY AND POWER EFFICIENT EXHAUST AIR HEAT PUMPS WITH INVERTER CONTROLLED COMPRESSOR**

NIBE F750 is a complete exhaust air heat pump for both new installations and replacement in houses or similar.

NIBE F750 has an integrated DC fan and water heater that has enamel, copper and stainless steel corrosion protection. There is an integrated immersion heater used as an additional heater when there are not enough energy in the exhaust air.

Energy is recovered from the ventilation air and supplied to the heat pump, which reduces energy costs considerably. The device ventilates the house, supplies heat and produces domestic hot water.

NIBE F750 is intended for low temperature dimensioned radiator circuits and/or under floor heating.

The F750 works based on the floating condensing principle, and is why the boiler section has a 25 litres temperature buffer vessel.

NIBE F750 can be connected in several different ways, e.g. to solar panels, two or more heating systems or to an extra electric hot water heater.

- Energy and power efficient exhaust air heat pump with inverter controlled compressor
- Display unit with easy-to-read colour screen
- Specified compressor output 1.1 – 6.0 kW
- Extract air temperature down to -15 °C
- Low energy fan
- Low energy circulation pump
- Outdoor temperature sensor/indoor temperature sensor
- Measures and logs average indoor temperature during the heating season
- Scheduling heating, ventilation and hot water as well as holiday mode
- Can control up to eight heating systems, with different temperature levels
- Can communicate with GSM (accessory)
- Integrated volume vessel of 25 l
- NIBE Uplink compatible

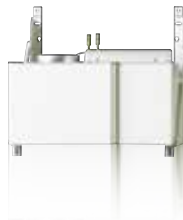
The high-performance heat pump for residential use – everything you need

NIBE F750 energy-efficient and high-performance exhaust air heat pump sets new standards in heating technology. Thanks to variable heating output, NIBE F750 can be installed in both small and larger houses. The basic version comes with full heating, domestic water preparation and ventilation for a standard single family home. In addition, the modular range of accessories provide maximum flexibility. The system can be expanded in a number of ways;



Combination with central supply air

In combination with NIBE SAM 40 supply air module, the supply air can be brought into the building mechanically, then filtered and pre-heated. NIBE SAM 40 is controlled via the comfort controller of the NIBE F750 exhaust heat pump.



Expansion of domestic water capacity

The standard device is already fitted with an integrated water heater to meet the normal hot water requirements of a family of four. If significantly more hot water is needed, the system can be supplemented with a separate tank to increase domestic water capacity to 500 litres.

A solar heating system can be connected to that tank to reduce the energy consumption even more.



Additional combinations

Other units can be connected to F750 if further combinations are desired:

- Other heat pump
- Gas boilers
- Water jacket stove



EXHAUST AIR HEAT PUMPS

NIBE™ F370

NIBE™ F470

FOR HEATING, HOT WATER, VENTILATION
AND HEAT RECOVERY

NIBE F370 is part of a new generation of heat pumps, which have been introduced to supply your home with inexpensive and environmentally friendly heating. Heat production is safe and economical with integrated hot water heater, immersion heater, low energy circulation pump and control system.

NIBE F470 is an exhaust air heat pump that should be connected to an optional low temperature heat distribution system such as radiators or underfloor heating. The outdoor incoming air is also heated in the unit. In other words, the product is suitable for homes with both hydronic heating and outflow/inflow ventilation systems.



- Extremely installer-friendly
- Multicolour display with user instructions and multilingual support
- Remote control via GSM (accessory)
- Solar package available (accessory)
- Elegant, timeless and international design
- Scheduling (indoor comfort, hot water and ventilation)
- USB-port (quick software updates)
- Integrated water heater with environmentally friendly plastic insulation for minimal heat loss
- Simple filter cleaning, equipped with filter monitor
- Remarkably low sound level
- Outdoor temperature sensor/indoor temperature sensor
- Low energy fan
- Low energy DC circulation pumps (A)
- NIBE Uplink compatible



GROUND SOURCE HEAT PUMPS

- FOUR KINDS OF GROUND SOURCE ENERGY

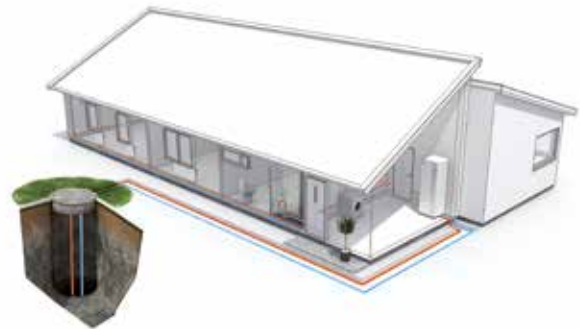
The term "ground source" covers four different heat sources; rock, surface soil, ground water and lake. The one that suits your location best is determined by factors such as the building's energy needs, your current heating system and the kind of terrain your house stands upon. Your local NIBE installer will be able to

offer advice about which one is most appropriate for your home. In all four cases, the heat pump concentrates the stored energy from one of these sources in such a way as to provide the hot water for radiators, underfloor heating, baths and showers.

Rock - using a ground probe

Ideal for refurbishment or adaptation from a fossil fuel based heating system.

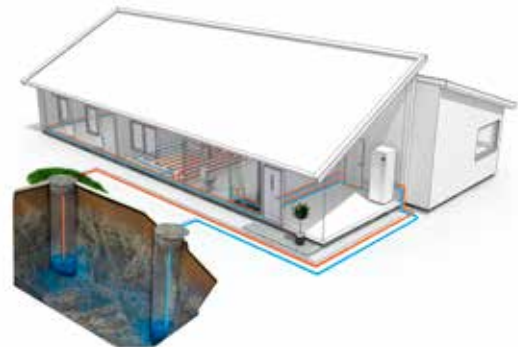
In the lower subsoil of the so-called "near-surface geothermal layer" lies a heat source with an almost constant temperature that can be utilised all year round. The heat pump collects stored solar energy from a collector in a hole drilled into the rock. The depth of the hole can vary between 90 and 200 metres, depending on the size of heat pump selected and on local building regulations. This type of system can be used for all possible building types, large or small, public or private. It requires little space and the ground probe can be drilled in the smallest of gardens.



Ground water

A viable energy source for any building where ground water is easily accessible.

Ground water can also be utilised as a heat source since it has a temperature of between 4 and 12°C all-year round. The heat pump collects stored solar energy from the ground water. Normally, there is one well for drawing up water and one for returning it.

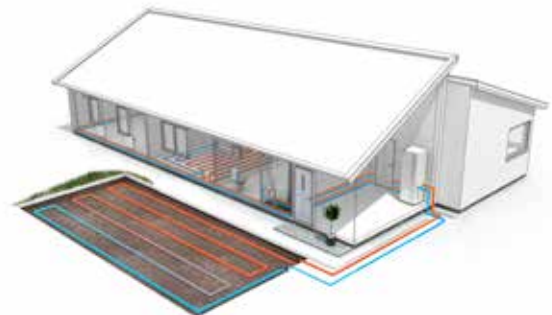


Surface soil - using a surface collector

Cost-effective energy collection.

During the summer, solar heat is stored in the soil. This is either directly absorbed as insulation or as heat from rain and the air from the near-surface layer of the soil. The heat pump collects this stored solar energy from a buried collector. That is, a hose filled with anti-freeze and buried at a depth of about 80 – 100 cm. The length of the hose varies between 250 and 400 metres, depending on the size of heat pump selected.

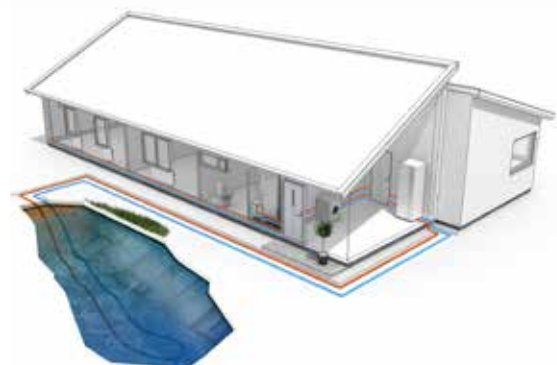
Using this energy for heating is a cost-effective method. The highest yield can be obtained from soil with a high water content.



Lake collector

Cost-effective installation for lakeside homes.

If your home is built beside a water source such as a lake, heat from the lake water can be extracted using a surface soil collector anchored to the bottom of the lake.



GROUND SOURCE HEAT PUMPS

NIBE™ F1145/F1145 PC

NIBE™ F1245/F1245PC

FOR RESIDENTIAL AND COMMERCIAL BUILDINGS

Our new generation of ground source heat pumps are packed with sophisticated technology, but at the same time incredibly simple to install and operate. Designed for connection to a heat distribution system such as radiators, convectors or underfloor heating, these new heat pumps offer astonishing savings and big environmental benefits.

A NIBE ground source heat pump is ready to be connected to a number of different products and accessories, e.g. solar panels, extra hot water heater, ventilation recovery and heating systems with different temperatures. With our broad range of accessories, you can also control your heat pump remotely, heat the pool and cool the house.

NIBE F1145 PC and F1245 PC have integrated passive cooling function and are available in four sizes up to 10kW. NIBE F1245 is available in three different corrosion protection and in five sizes from 5-12 kW (stainless steel, enamel and copper). Finally NIBE F1145 is available in seven sizes from 5 to 17 kW.

User- and installer-friendliness

With the new generation of heat pumps, the concept of user-friendliness has reached a whole new level. An easy-to-read multicolour display features clear information about status, operation time and all temperatures in the heat pump; an easily navigated control unit enables users to get the best performance out of the heat pump and maintain a comfortable indoor temperature at all times.

- Extraordinarily high efficiency (COP)
- Extremely installer-friendly
- Modular system for service friendliness
- Multicolour display with user instructions and multilingual support
- Remote control via GSM (accessories)
- Scheduling (indoor comfort, hot water as well as cooling and ventilation)
- Universal connection interface (1xUSB-port)
- Integrated water heater (F1245/F1245 PC) with environmentally friendly cellular plastic insulation for minimal heat loss
- Remarkably low sound level
- Low energy DC circulation pumps (A)
- Elegant, timeless and international design

New improved generation:

- Higher efficiency
- Speed controlled circulation pumps for optimized heating and hot water charging
- Improved installer friendliness
- Master/slave compatible with up to nine pcs in cascade and in combination with NIBE F1345*
- NIBE Uplink compatible



Multicolour display with user instructions and multilingual support



*Does not apply to PC-versions

GROUND SOURCE HEAT PUMPS

NIBE™ F1155

NIBE™ F1255/F1255 PC

A NEW GENERATION OF INVERTER CONTROLLED HEAT PUMPS

NIBE F1155 and F1255 is an intelligent heat pump fitted with an inverter controlled compressor and speed-controlled circulation pumps. Suitable for use in residential and commercial buildings. The heat pump adjusts itself automatically to the power demand of the house. This results in optimal savings as the heat pump always runs at the correct performance all year round without the addition of extra electrical peaks.

The integrated coil water heater in F1255/F1255 PC is available in three different corrosion protections (stainless steel, enamel and copper*).

It is prepared for connection to several different products and accessories, for example, hot water heater, ventilation recovery, pool, free cooling, active cooling and heating systems with different temperatures.

- Delivered power 1,5 - 16 kW
- Extraordinary high efficiency (SCOP)
- Optimal annual heating factor thanks to the inverter controlled compressor
- Speed controlled circulation pumps that supply the heat pump with optimized fluid flow
- Minimal operating costs, no expensive peaks when it is cold outside. The compressor adapts as necessary
- F1255/F1255 PC with integrated hot water heater with environmentally friendly insulation for minimal heat loss
- High temperature range
 - Flow line temperature up to 65 °C (70C)
 - Return line temperature up to 58 °C
- Scheduling (indoor climate, hot water, ventilation)
- Control of up to four heating systems
- Accessories available for e.g. pool heating, passive and active cooling. (F1255 PC has integrated passive cooling)
- NIBE Uplink compatible

* Only valid for F1255



GROUND SOURCE HEAT PUMP

NIBE™ F1345

THE PERFECT SOLUTION FOR COMMERCIAL BUILDINGS WITH HIGH HEAT DEMANDS

The NIBE F1345 is one of a new generation of heat pumps, designed to supply your heating and tap water needs in a cost-effective, environmentally friendly way. With its two large scroll compressors, NIBE F1345 is the ideal ground source heat pump for multi-occupancy buildings, industrial premises, churches and other buildings with a large heat demand. The compressors collaborate and engage as necessary, give better power control, less wear and greater operational ability.

The new NIBE F1345 is more flexible than ever and with its advanced control system it can be adapted to several system solutions. In systems with up to nine heat pumps and with a wide range of accessories e.g. for control of oil, gas, pellet fired or electric boilers, you find the full flexibility for your installation. NIBE F1345 is equipped with a multicolour display, multilingual support and simply upgradable software via the built in USB port.

NIBE F1345 is manufactured in four sizes; these feature outputs of 24, 30, 40 and 60 kW.



- Perfect solution for commercial buildings with high heat demands
 - Docking possibility – up to 540 kW in cascade
 - High COP – provides savings and shorter payback times
 - High flow temperature (up to 65°C) – means great application flexibility
 - Multicolour display with user instructions and multilingual support
 - Scheduling (indoor comfort, hot water and ventilation)
 - Universal connection interface (1xUSB-port)
 - Remarkably low sound level
 - Elegant, timeless and international design
 - The control unit offers several docking options
 - NIBE Uplink compatible
- New improved generation:**
- Higher efficiency
 - Improved installer friendliness
 - Speed controlled circulation pumps for optimized heating and hot water production
 - Improved controller functionalities
 - Refrigerant circuit contain less than 5 tonnes CO₂ equivalent per compressor module

FUNCTION MODULES FOR NIBE GROUND SOURCE HEAT PUMPS

NIBE™ ERS HEAT RECOVERY VENTILATION

NIBE ERS is a heat recovery ventilation unit equipped with a counter flow heat exchanger with highest temperature efficiency. The ventilation unit is equipped with supply and extract fans with energy saving EC motors and backward curved fanblades.



- NIBE ERS - heat recovery ventilation as accessory with NIBE heat pumps
- Controlled from heat pump display for one system intelligence
- Normally used for homes with an area up to 300 square metres
- Counter flow heat exchanger with highest temperature efficiency
- Fans with energy saving EC motors
- NIBE Uplink compatible via heat pump

NIBE™ FLM EXHAUST AIR MODULE

The NIBE FLM exhaust air module is a complete exhaust air solution designed for use with NIBE ground source heat pumps, regardless of their size or output. The exhaust air module recycles mechanical exhaust air and improves the indoor climate, at the same time as reducing heating costs. NIBE FLM has an integrated DC fan, which enables you to adjust the fan's speed to increase and reduce the level of ventilation. The module can be fitted directly to the heat pump or hung on the wall.



- Module produced to combine recovery of mechanical exhaust air with ground source collectors
- Up to four pcs can be docked with a NIBE F1145/F1155/F1245/F1255/F1345 ground source heat pump irrespectively of output size
- Provides a complete solution for exhaust air and ground source
- Exhaust air energy accumulates in the ground
- The collector length can be reduced when required
- Extremely installer-friendly
- Automatic defrosting
- Remarkably low sound level
- Low energy circulation pumps and DC fan

NIBE™ HPAC 40/45 COOLING MODULE

NIBE HPAC accessory gives your installation a high degree of flexibility. NIBE HPAC 40 is compatible with the NIBE F1145/F1155/1245/F1255 series and NIBE HPAC 45 with the NIBE F1345. NIBE HPAC was developed in such a way as to enable all the heat pump's potential applications - both heating and cooling. Combine your heat pump with NIBE HPAC for passive or active cooling. It works, even while your system is continuously heating hot water.

NIBE HPAC is easily controlled via the heat pump's control panel, where both settings and monitoring are easily handled at the push of a button. This accessory's timeless design means that it blends in well with your other heat pump equipment.



- Elegant and timeless design
- High flexibility for the best indoor climate
- Passive cooling
- Active cooling in combination with the heating of hot water
- Installer-friendly with automatic detection in heat pump
- Settings shown on the heat-pump's display
- NIBE HPAC 40 is compatible with heat pumps in the NIBE F1145/F1155/F1245/F1255 series
- NIBE HPAC 45 is compatible with heat pumps in the NIBE F1345 series up to 60 kW

NIBE AIR/WATER HEAT PUMP MONOBLOC – OUTDOOR MODULES

FLEXIBLE SYSTEM SOLUTIONS

The F2030-7 and -9 are two high-performance air/water outdoor units that are particularly suitable for residential buildings. The F2030 is built on the same vapour injection, EVI, compressor concept as the larger F2300 units. Great efforts have been made to create attractive system combinations.

Special attention has been given to minimising the noise level.

F2030 is one of the quietest units available on the market.

These NIBE products have been developed with special attention of making installation as smooth as possible. For example, we always include anti-vibration water connections with the outdoor unit. The widest accessory programme on the market and numerous recommended possible combinations.



NIBE™ F2030

- COP optimized throughout the envelope
- Supply temperature up to 65 °C
- 3-phase connection for all sizes
- Lowest maximum noise level
- Extended working range down to -25 °C ambient with 63 °C supply temperature
- Superior for radiator systems
- Built-in condensate water tray

Name	Building heating power demand
NIBE F2030-7	5 – 9 kW
NIBE F2030-9	8 – 12 kW

FLEXIBLE SYSTEM SOLUTIONS WITH NIBE F2030 OUTDOOR UNIT

NIBE Compatible indoor modules

Outdoor unit	Indoor unit
NIBE F2030-7	NIBE VVM 310/VVM 320/VVM 500
NIBE F2030-9	NIBE VVM 310/VVM 320/VVM 500

NIBE SMO 20/40 system

Outdoor unit	Indoor unit
NIBE F2030-7	NIBE SMO 20/40
NIBE F2030-9	NIBE SMO 20/40

For docking principles, please see www.nibe.eu/air-water/docking.

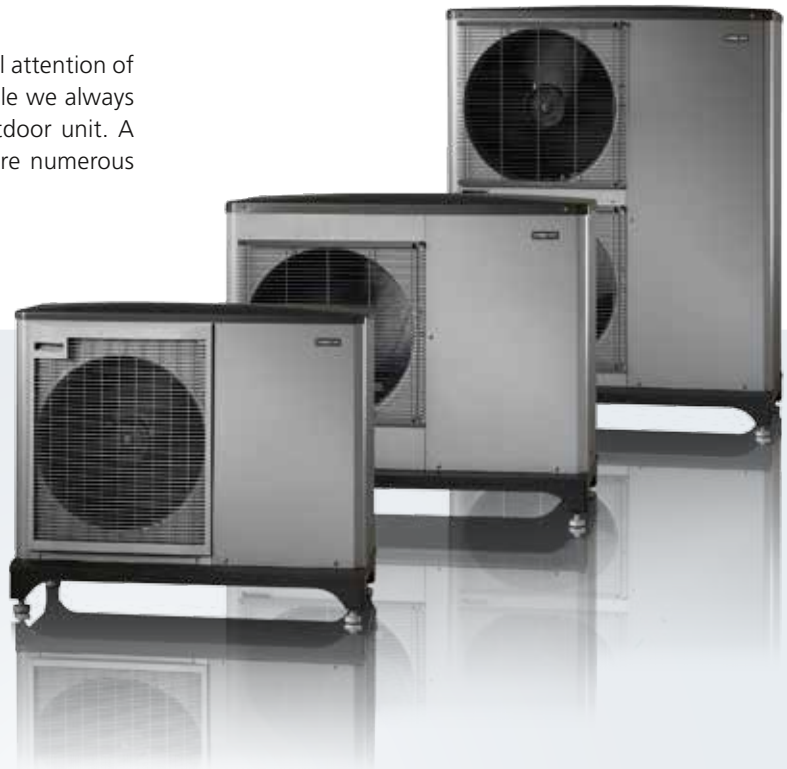
NIBE AIR/WATER HEAT PUMP MONOBLOC – OUTDOOR MODULES

FLEXIBLE SYSTEM SOLUTIONS

The NIBE monobloc F2040 range consists of NIBE F2040-8, -12 and -16. The updated programme gives a complete coverage of building heating power demand in the 5 -16 kW range.

The F2040 are inverter controlled air/water outdoor units that are particularly suitable for residential buildings. Great effort has been made to create attractive system combinations.

These NIBE products have been developed with special attention of making installation as smooth as possible. For example we always include anti-vibration water connection with the outdoor unit. A broad accessory programme is available and there are numerous recommended possible combinations.



NIBE™ 2040

- Inverter controlled compressor
- Cooling function
- Outdoor unit with compact dimensions
- Built-in condensate water tray

Name	Building heating power demand
NIBE F2040-8	5 – 9 kW
NIBE F2040-12	8 – 12 kW
NIBE F2040-16	12 – 16 kW

FLEXIBLE SYSTEM SOLUTIONS WITH NIBE F2040 OUTDOOR UNIT

NIBE Compatible indoor modules

Outdoor unit	Indoor unit
NIBE F2040-8	NIBE VVM 310/VVM 320/VVM 500
NIBE F2040-12	NIBE VVM 310/VVM 320/VVM 500
NIBE F2040-16	NIBE VVM 310/VVM 500

NIBE SMO 20/40 system

Outdoor unit	Indoor unit
NIBE F2040-8	NIBE SMO 20/40
NIBE F2040-12	NIBE SMO 20/40
NIBE F2040-16	NIBE SMO 20/40

NIBE AIR/WATER HEAT PUMP MONOBLOC – OUTDOOR MODULES

FLEXIBLE SYSTEM SOLUTIONS

The F2300-14 and -20 are two high-performance air/water outdoor units that are suitable both for commercial and residential use. The F2300 is built on the same vapour injection, EVI, compressor concept as the F2030 units. Great efforts have been made to create attractive system combinations.

Special attention has been given to minimising the noise level. F2300 is one of the quietest units available on the market.

These NIBE products have been developed with special attention of making installation as smooth as possible. For example, we always include anti-vibration water connections with the outdoor unit. The widest accessory programme on the market and numerous recommended possible combinations.



NIBE™ 2300

- COP optimized throughout the envelope
- Supply temperature up to 65 °C
- 3-phase connection for all sizes
- Lowest maximum noise level
- Extended working range down to -25 °C ambient with 63 °C supply temperature
- Superior for radiator systems
- Built-in condensate water tray

Name	Building heating power demand
NIBE F2300-14	12 – 18 kW
NIBE F2300-20	16 – 22 kW

FLEXIBLE SYSTEM SOLUTIONS WITH NIBE F2300 OUTDOOR UNIT

NIBE Compatible indoor modules

Outdoor unit	Indoor unit
NIBE F2300-14	NIBE VVM 500
NIBE F2300-20	NIBE VVM 500

NIBE SMO 20/40 system

Outdoor unit	Indoor unit
NIBE F2300-14	NIBE SMO 20/40
NIBE F2300-20	NIBE SMO 20/40

AIR/WATER HEAT PUMPS – SPLIT

NIBE™ SPLIT

FULL SPLIT PROGRAMME FOR RESIDENTIAL USE.
HEATING, COOLING AND HOT WATER

NEW

The NIBE SPLIT range consists of NIBE AMS 10 -8, -12 and -16. The updated programme opens up the possibility of both cascade and single unit installations. A single unit installation gives a complete coverage of building heating power demand in the 5 -16 kW range.

These NIBE products have been developed with special attention of making installation as smooth as possible. Great effort has been made to create attractive system combinations. A broad accessory programme is available and there are numerous recommended possible combinations.

- Inverter controlled compressor
- Cooling function
- Outdoor unit with compact dimensions
- Built-in condensate water tray

Name	Building heating power demand
NIBE AMS 10-8	3 – 7 kW
NIBE AMS 10-12	5 – 10 kW
NIBE AMS 10-16	7 – 13 kW

NIBE SPLIT system

	AMS 10-8/ HBS 05-12	AMS 10-12/ HBS 05-12	AMS 10-16/ HBS05-16
VVM 310	X	X	X
VVM 320	X	X	
VVM 500	X	X	X
SMO 20	X	X	X
SMO 40	X	X	X



NIBE AIR/WATER HEAT PUMP MONOBLOC

– INDOOR MODULES

NIBE™ VVM 310

FLEXIBLE ALL-IN-ONE INDOOR MODULE FOR HEATING AND HOT WATER

NIBE VVM 310 is a flexible indoor module and together with the NIBE's air/water outdoor modules creates a complete system to meet the building's heating and hot water demand.

NIBE VVM 310 can receive energy from several different sources, for example from the NIBE F2030 and F2040 outdoor heat pumps.

Prepared for connection of all types of external heat sources. The connected external energy sources can be used both as normal supplementary heating source and as prioritized heating source i.e. using the energy from wood fired boiler when available.



- For upgrading existing heating systems or new builds with requirements for high hot water performance.
- Simple connection and control of external heat source (wood/oil/electric/gas/solar).
- Possibility to connect a prioritized heating source i.e. using the energy from wood fired boiler when available.
- NIBE air/water heat pumps together with VVM 310 make up a complete installation for heating and hot water.
- Support for cooling in combination with F2040
- A new generation control module with a colour display and several new functions
- Built-in step controlled electric addition
- Integrated buffer tank for the heating system
- Hot water coil made of stainless steel
- Weather compensated flow line temperature controller. Built-in shunt valve to handle temperature variations of connected external heat sources
- Self-regulating, speed controlled, circulation pumps of lowest energy design
- Load monitor as standard
- NIBE Uplink compatible

NIBE™ VVM 320/325

COMPLETE INDOOR MODULE FOR HEATING AND HOT WATER

VVM 320 is a complete indoor module and together with the NIBE's air/water outdoor modules creates a complete system to supply the building's heating and hot water requirements.

VVM 320/325 can receive energy from several different sources, for example from the NIBE F2030 and F2040 outdoor heat pumps.

VVM 320 is connected in the top of the product. It is available in different kinds of anticorrosion protection, copper, enamel and stainless steel.

VVM 325 is connected in the bottom of the product. It is available in one anticorrosion protection, copper.



- For upgrading existing heating systems or new builds with requirements for high hot water performance.
- NIBE's air/water heat pumps together with VVM 320/325 make up a complete installation for heating and hot water.
- A new generation control module with a colour display and several new functions
- Control of the external heat source (wood/electric/oil/gas).
- Built in step controlled electric addition.
- Integrated buffer tank for the heating system
- Weather compensated flow line temperature controller.
- Self-regulating, speed controlled, circulation pump of lowest energy design
- Load monitor as standard
- NIBE Uplink compatible

NIBE AIR/WATER HEAT PUMP MONOBLOC

– INDOOR MODULES

NIBE™ VVM 500

FOR NIBE MONOBLOCK AIR/WATER HEAT PUMPS

NIBE VVM 500 is a flexible indoor module and together with the NIBE's air/water outdoor modules creates a complete system to meet the building's heating and hot water demand.

NIBE VVM 500 can receive energy from several different sources, for example from the NIBE F2300, F2030 and F2040 outdoor heat pumps.

Prepared for connection of all types of external heat sources. The connected external energy sources can be used both as normal supplementary heating source and as prioritized heating source i.e. using the energy from wood fired boiler when available.

A solar coil for easy connection of thermal solar panels is also included in the VVM500.



- For large houses or buildings with 2 – 3 apartments that requires high hot water performance.
- Simple connection and control of external heat source (wood/oil/electric/gas/solar).
- Possibility to connect a prioritized heating source i.e. using the energy from wood fired boiler when available.
- NIBE air/water heat pumps together with VVM 500 make up a complete installation for heating and hot water.
- Support for cooling in combination with F2040
- A new generation control module with a colour display and several new functions
- Built-in step controlled electric addition
- Integrated buffer tank for the heating system
- Hot water coil made of stainless steel
- Weather compensated flow line temperature controller.
- Built-in shunt valve to handle temperature variations of connected external heat sources
- Self-regulating, speed controlled, circulation pumps of lowest energy design
- Load monitor as standard
- NIBE Uplink compatible

NIBE™ SMO 20/40

CONTROL MODULE

NIBE SMO 20/40 is an advanced controller module that supports a broad range of different hydraulic schemes. NIBE SMO 20/40 enables you to combine a NIBE air/water heat pump with other equipment and create your own customised heating system. Start with one NIBE air/water heat pump; if you need more power, you can install as many as eight NIBE air/water heat pumps together in the same system. The addition of NIBE SMO 20/40 intelligent control module allows your NIBE air/water heat pump to work smoothly in a variety of ways. For example:

- Connected to another heating system such as gas, oil, electricity or district heating.
- Connected to a NIBE water heater of the size required to meet your domestic hot water needs.
- If you have a swimming pool, NIBE SMO 40 can connect your heat pump to your pool and heat that too.
- Systems controlled by NIBE SMO 40 can also incorporate solar panels, enabling you to use solar energy as a complementary heat source when available.



- Heating, cooling, pool heating step controlled extra heat source.
- Controlled charge pump as accessory from NIBE.
- Clear information about status, operating time and all temperatures in the system is shown on the large and easy-to-read display.
- Multicolour display with user instructions and multilingual support
- NIBE SMO is compatible with NIBE Uplink

NIBE AIR/WATER HEAT PUMP MONOBLOC – SITUATED INDOOR MODULES

NIBE™ HA-WH 5

CYLINDERS

The NIBE HA-WH5 is a range of stainless steel cylinders specifically designed for the NIBE F2040 air/water heat pump range. The cylinders incorporate a large heating coil providing maximum heat transfer into the stored water. The cylinders are available in three single coil versions for use with NIBE F2040 air source heat pumps or traditional gas, oil or biomass boilers, ranging from 160 - 300 litres.

The NIBE HA-WH5 cylinders are manufactured from high grade stainless steel. Two twin coil solar versions are available in 200 and 300 litres versions providing up to 70% of the domestic hot water requirements by utilising the free energy provided by the sun.



- Specifically designed for NIBE F2040 air source heat pump range and the NIBE SMO 20/40 controls
- Suitable for biomass boilers, sun, gas, and oil
- High grade stainless steel
- Smooth coil to resist limescale deposits



* For 200/300 L

FUNCTION MODULES FOR NIBE AIR/WATER HEAT PUMPS

NIBE™ F135

EXHAUST AIR HEAT PUMP MODULE

NIBE F135 is a complete exhaust air solution designed for use with NIBE air/water heat pump systems.

The exhaust air module recycles mechanical exhaust air and improves the indoor climate, at the same time as reducing heating/hot water costs.

All of your heating, hot water and ventilation demands is controlled in the same controller of if preferred, in Uplink.



- Module produced to combine recovery of mechanical exhaust air with air to water heat pump
- Controlled by VVM310/VVM320 VVM500 or SMO40
- Boosts your system SCOP
- F135 produces heating and hot water
- Simultaneous cooling and hot water production possible
- Extremely installer friendly
- Scheduling ventilation also for longer periods

AIR TO AIR

A UNIQUE OPPORTUNITY FOR HOUSES WITH DIRECT ELECTRICAL HEATING

COMPLETE AIR/AIR HEAT PUMP SYSTEMS

NIBE ARIA is a complete modern heat pump system that offers efficient technical energy saving and reduced carbon dioxide emissions. The integrated control system in the indoor module gives safe and economical climate control.

The heat is retrieved from the outdoor air through an outdoor module, where the refrigerant, which circulates in a closed system, transfers the heat from the heat source (outdoor air) to the indoor module.

Optimal annual coefficient of performance thanks to the inverter controlled compressor.



NIBE™ ARIA

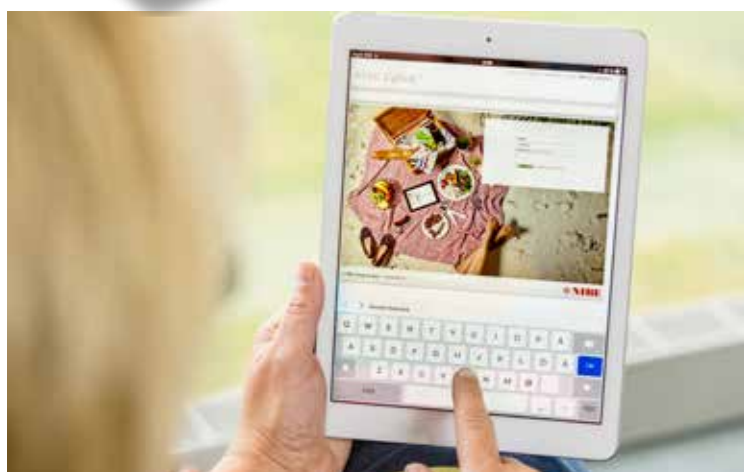
- Unique design
- Condensation lead off (accessory)
- Warranty insurance for up to 12 years
- Indoor temperature adjustable down to +10 °C
- Remote control via App
- Heating operation down to -32 °C
- Adaptive defrosting procedure
- Advanced active air cleaning
- Up to 60% lower heating costs



REMOTE MANAGING AND MONITORING OF HEAT PUMPS

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.

NIBE Uplink also gives you the opportunity to control comfort in your property no matter where you are. We call it NIBE freedom.

- NIBE introducing a new, efficient tool that gives you quick and easy control over your property's heat pump - wherever you are.
- A web interface over the Internet offers you an instant view of e.g the temperature and current status of the heat pump in your property.
- Provides the benefit of external monitoring for several properties at the same time.
- Clear, easy way of monitoring and controlling heating and water temperatures for maximum comfort.
- In the unlikely event of a system malfunction you receive an alarm directly in your mail, allowing you to respond in the fastest possible time.
- Simple installation with a "click" of an ethernet cable.
- Provides logging of heat pump parameters presented in a user-friendly history chart.

New

- API functionality for external integration of e.g home management systems and BMS
- NIBE Uplink app for compatible smart phones



NIBE SOLAR PACKAGES FOR A SUNNY FUTURE

NIBE™ FP215 P/PL

NIBE PREMIUM SOLAR COLLECTORS

The P (Premium) panel is mounted in a vertical way and the PL (Premium Landscape) is mounted horizontally. The solar thermal collector FP215 is a high class collector with a serpentine laser-welded selective absorber and innovative lightweight design.

The collector has an empty weight of only 32.5 kg and high thermal efficiency due to an exceptional insulation solution. The combination of high temperature resistant PIR-Plate and rock wool insulation allows a flat collector height of only 81 mm.

Suitable for hot water, heating support and process energy systems suitable for high-flow and low-flow operation.



- High annual yield
- Blue highly selective absorber coating
- 40 mm thick heat insulation system comparable with 57 mm rock wool
- Serpentine/meander internal design
- Self-discharging in stagnation mode with no air pockets such as register absorbers
- In-roof or on-roof installation
- Up to 12 collectors can be tied up in a row with a 6 m solar pump
- Quick joint connections
- Light weight

Wide range of applications:

- Suitable for hot water, heating support and process energy systems
- Suitable for high- and low-flow operation

Guarantees and certification:

- Complies with European Standards
- Solar Keymark certified

Installation-friendly system:

- Easy to transport with carry-friendly circulating handle bar and easy weight design
- Easy to install on the pre-designed mounting system
- Easy to install due to quick connection design

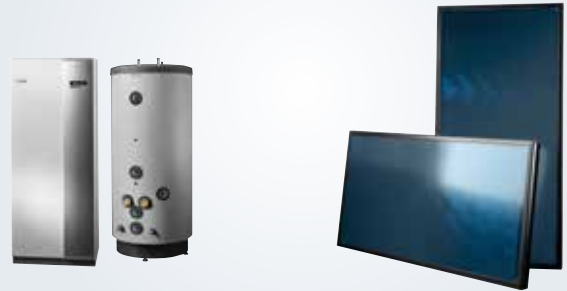
NIBE™ SOLAR 1145/VPBS FP215 P / PL

FOR NIBE F1145 HEAT PUMP AND NIBE VPBS WATER HEATER



NIBE™ SOLAR 1145/VPAS FP215 P / PL

FOR NIBE F1145 HEAT PUMP AND NIBE VPAS STORAGE TANK



NIBE™ SOLAR SPLIT FP215 P / PL

FOR NIBE SPLIT AIR/WATER HEAT PUMPS



NIBE™ SOLAR VVM 500 FP215 P / PL

FOR NIBE VVM 500 INDOOR MODULE



NIBE™ SOLAR 370/470 FP215 P / PL

FOR NIBE F370/470 HEAT PUMPS



NIBE™ SOLAR 750/VPBS FP215 P / PL

FOR NIBE F750 HEAT PUMP AND NIBE VPBS WATER HEATER



NIBE™ SOLAR FOR COIL FP215 P / PL

FOR BOILERS, STORAGE TANKS AND WATER HEATERS WITH INTERNAL SOLAR COIL



NIBE™ SOLAR NO COIL FP215 P / PL

FOR BOILERS, STORAGE TANKS AND WATER HEATERS WITHOUT AN INTERNAL SOLAR COIL



WATER HEATERS

– FOR ALL YOUR HOT WATER NEEDS



NIBE™ VPB 200, VPB 300

NIBE™ VPBS 300

NIBE VPB/VPBS is a series of water heaters that are suitable for connection to and in combination with heat pumps, solar panels (VPBS) gas and oil boilers. For a truly comprehensive installation, NIBE VPB 200, VPB 300 and VPBS 300, with their integrated design, are best combined with NIBE F1145.

Since NIBE VPB 200, VPB 300, VPBS 300, FLM and F1145 are designed together, you can combine them any way you like and still achieve a neat, streamlined appearance. And in installations using the NIBE VPB 200 combined with the NIBE F1145, piping can be hidden away.

The NIBE VPB/VPBS series offers further improvements in terms of thermal insulation and recharging of hot water – to ensure your comfort. These products are available in different kinds of anticorrosion protection, copper, enamel, and stainless steel.



NIBE™ F110

COMPLETE HEAT PUMP UNIT THAT PROVIDES HOT WATER AND VENTILATION

F110 is a heat pump that works with exhaust air, outdoor air or the surrounding air. It has integrated fan and a water heater with copper or stainless steel corrosion protection.

Energy is recovered from the air using the heat pump and is supplied to the water heater, where the domestic hot water is heated. With exhaust air installation the unit also ventilates the house.

- NIBE F110 consumes much less energy than an equivalent conventional electric water heater
- Gives great savings thanks to the large compressor with intelligent controls
- Can operate with air temperatures down to -10 °C (at outdoor air installation)
- The integrated water heater is insulated with environmentally friendly, recyclable cellular plastic for minimal heat loss
- Display unit with easy-to-read colour screen
- Low energy fan
- Scheduling of hot water, and ventilation if applicable, as well as holiday mode
- The design of the ventilation section gives a low noise level and a high ventilation capacity with exhaust air installation



WATER HEATERS

– FOR ALL YOUR HOT WATER NEEDS

NIBE™ MT-WH 2029

DOMESTIC HOT WATER HEAT PUMP

NIBE MT-WH2029-F/1FS is a domestic hot water heat pump with an integrated 285 liter hot water boiler, extract air fan, heat pump and electrical connection. NIBE MT-WH2029-1FS is delivered with an internal heating coil ready to connect e.g. to solar panels, a second heat source.

With its modern design and practical pipe connections the NIBE MT-WH2029-F/1FS is easy to install, for instance in the basement, in the installations room or in the utility room.

With its 285 liter boiler NIBE MT-WH2029-1F/1FS is able to meet the demand of a family for hot water.

- Domestic hot water heat pump with an integrated 285 liter hot water boiler
- Enamelled or stainless steel water tank
- Uses the energy of extract, ambient or outdoor air to heat up the domestic hot water
- Ready to connect e.g. to thermal solar panels or a second heat source
- Ready to connect to a small floor heating unit
- Low tariff/off peak use
- Free adjustable fan speed
- Connection for hot water circulation
- Easy to install for instance in the basement, in the installations room or in the utility room
- PV-ready



NIBE™ F130

F130 is part of a new generation of heat pumps that have been introduced to supply your home with inexpensive and environmentally friendly hot water. Hot water production is safe and economical with an external water heater and integrated control system.

F130 is equipped with a control computer to give you good comfort, good economy and safe operation. Information about status, operating time and all temperatures in the heat pump are shown on the clear display.

- Scheduling hot water and ventilation
Hot water and ventilation can be scheduled for each day of the week or for longer periods (vacation).
- Display with user instructions
The heat pump has a display with easy-to-understand menus that facilitate setting a comfortable hot water level

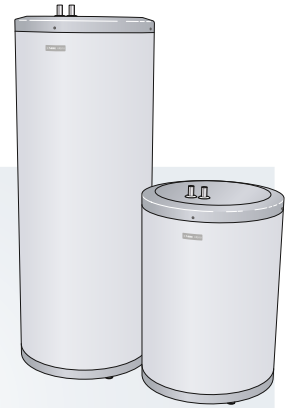


WATER HEATERS – FOR ALL YOUR HOT WATER NEEDS

NIBE™ VPD 10

NIBE VPD 10 is a new series of water heaters that are suitable for connection to and in combination with heat pump F130.

The water tank consists of a stainless steel vessel to protect against corrosion. Thermal insulation is provided by CPC-free polyurethane insulation, ensuring excellent thermal performance. The outer casing is made from impact resistant plastic plate.



- Adapted for a complete domestic hot water system with the heat pump F130
- Available in two sizes: 150 and 300 litre domestic hot water volume.
- Max temperature 95°C
- Available with stainless steel vessel to protect against corrosion.
- Improved insulation for a minimum of heat loss

NIBE™ DD-WH 1008W/ -10W/ -12W/ -15W

This new range of electric water heaters has been developed and introduced to meet future EU ECO directives as well as new drinking water regulations.

With timeless design and our newly developed control unit, this range of water heaters is an energy saving product that will be in demand by European consumers.

The product range incorporates our newly developed control unit that can be controlled from the consumer's own smartphone or tablet. The control unit can be programmed to engage according to the consumer's own consumption pattern or the control unit's smart function can be engaged to take over the hot water production for the most energy-efficient consumption.



- New Design - Intuitive control
- Off-Peak signal detection from electrical network
- New generation of electronics (Bluetooth 4.0)
- Status control of protective anode
- Smartphone Applications
- Programming functions
- New Eco friendly plastic materials
- Fulfills new DIN 4753 and W 517 norms
- The system of ceramic elements is extraordinarily resistant to hard and corrosive water and it significantly extends the service life of the reservoir under all conditions

THERMAL STORAGE TANKS

– FOR ALL YOUR HOT WATER NEEDS

NIBE™ VPA/VPAS

THERMAL STORAGE TANKS OPTIMALLY
PREPARED FOR CONNECTION TO HEAT PUMPS

NIBE VPA, storage tanks with internal water heater, intended primarily to be connected to heat pumps. They are also suitable for use with other heat sources. NIBE VPA is manufactured in two sizes, 300/200 and 450/300.

NIBE VPAS is a storage tank with an internal water heater and solar coil. NIBE VPAS is primarily designed for connection to heat pumps in combination with solar panels. NIBE VPAS is manufactured in sizes 300/450.



NIBE™ AHPS/AHP 300

THERMAL STORAGE TANK

NIBE AHPS/AHP is a new series of storage tanks. AHPS is a “technology tank”, a tank with more flexibility. AHPS has a solar coil and a combined pre- and post-heating coil for hot water production.

The hot water is produced in the powerful, stainless steel hot water coil as the hot water is consumed. In principle, AHPS is ideal for all pre-heating applications. Among other things, solar panels can preheat or fully heat the hot water in AHPS before it goes to the cold water connection of a heat pump. This also applies to gas, electric or pellet boilers.

Thanks to coil water heating, AHPS can be considered legionella safe even at unfavourable temperatures.

AHP is a volume expansion tank that is primarily used for expanding the volume with an AHPS. AHP and AHPS have the same type of exterior which gives a modern-looking installation. Several AHP units can be connected in parallel with one AHPS and so even receive energy from a small to medium sized wood fired boiler. The function of connecting several tanks together greatly simplifies matters where one large tank would be difficult to install.



NIBE AHPS

- Modular expandable tank system
- Great flexibility with many installation options
- Connections for external heat source for both charging and discharging of energy. This permits further installation options
- Can be used for almost all types of preheating of hot water
- High hot water capacity thanks to the long stainless steel hot water coil
- Integrated solar coil for solar panels of up to 10 m² area

NIBE AHP

- Volume expansion tank for use with AHPS

THERMAL STORAGE TANKS – FOR ALL YOUR HOT WATER NEEDS

NIBE™ UKVS 230

STORAGE TANK WITH COIL FOR SOLAR PANELS

NIBE UKVS 230 is intended to be used for heat storage when a smaller heat pump is docked with solar panels. It is also possible to dock another heat source.

Solar system tailor-made to give optimum performance with NIBE SPLIT and NIBE F370/F470.

NIBE™ UKV

BUFFER TANK FOR HEATING SYSTEMS

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



DOMESTIC BOILERS

NIBE™ PELLUX 100 20/30kW

MODERN PELLET BOILER WITH PELLET BURNER AND AUTOMATIC SWEEPING

The control panel is designed to achieve the most simple operation possible. The combustion chamber and convection section require minimum maintenance. Only the ash box needs be emptied between visits from the sweep. This is easy to do thanks to the hinged combustion chamber door. It's easy to perform all essential service and maintenance through the front door of the burner.

NIBE PELLUX 100 is easy to install. The low height of the boiler allows installation at low ceiling heights. The essential pipe connections are on the top or the back of the boiler for easy access. The boiler is also fitted with connections for a hot water system or for docking with another heat source, for example a solar panel or heat pump.

NIBE PELLUX 100 is prepared for climate controlled automatic shunt. The draught limiter supplied means that the chimney is ventilated after each firing and the burner can operate in ideal conditions. Outdoor temperature sensor and angled flue pipe are also supplied.

NIBE™ PELLUX 200 E

A COMPLETE PELLET BOILER FOR HEATING HOUSES

NIBE PELLUX 200 Exclusive is a modern pellet boiler with temperature-controlled automatic shunt and automatic sweeping. Tap water is heated up in a plate heat exchanger or external water heater, with boiler water and tap water channelled into alternate columns. Thanks to an internal circulation pump, controlled via a flow switch, the boiler starts automatically whenever more hot water is needed. For ease of installation, all essential pipe connections are on top of the boiler. Moreover, its low height is an advantage when installing in rooms with low ceilings.

NIBE PELLUX 200 E is also equipped with a large ash cassette so it doesn't need to be emptied too often. A swing-door makes emptying the cassette easy. Both the burning chamber and convection zone are designed for easy maintenance. This model also features a climate-controlled automatic shunt with outdoor and supply sensors.



- Class 5 according to EN 303-5:2012
- Fuzzy Logic II (modulation or steps)
- Two main menus (easy and standard)
- Boiler and burner control from one driver
- Suitable as a back-up heat source for heat pumps
- Prepared for automatic shunt control and lambda control (oxygen sensor)
- Two circuits in standard (central heating with mixing valve and hot water)
- Up to 14 circuits (13 central heating, 1 hot water)
- Prepared for solar panel control and buffer tank
- Cooperation with a dedicated temperature sensor for each heating circuit
- Automatic cleaning of the heat exchanger
- Burner with automatic ash removal
- Automatic boiler firing
- Chimney friendly, draft limiter supplied as standard
- Two sizes of pellet containers (300 l and 500 l)



- Complete combi-boiler optimised for pellets
- Integrated hot water heating via stainless steel heat exchanger
- Integrated automatic sweeping
- Possible to choose same model with integrated circulation pump, prepared for external water heater
- Integrated automatic shunt valve for climate control via outdoor sensor
- Easy installation of the boiler
- Large ashbox for longer intervals between emptying
- Prepared for remote control
- Load monitor as standard
- Draught limiter for chimney supplied
- Integrated immersion heater allows electric reserve operation or back up
- Max output is 25 kW (pellet mode)

DOMESTIC BOILERS

NIBE™ VEDEX 3300

FOR WOOD. FAN-CONTROLLED WOOD BURNING BOILER
OFFERING A HIGH DEGREE OF EFFICIENCY

NIBE VEDEX 3300 is a boiler intended for heating houses and other small buildings. The boiler is environmentally approved for wood log firing to a storage tank.

When firing, the boiler water is partly heated by the combustion chamber and partly by the convection area.

Average output during wood burning operation is approx. 35kW (max. output is approx. 40kW).

A storage tank with integrated water heater or coil is needed for hot water heating.

The hot water capacity is determined by the choice of water heater size or the length of coil.

Recommended storage tank volume: 1500-2000 litres

- An easy-to-install and easy-to-use wood fired boiler
- Stable and easy firing
- 90 % efficiency without demanding extreme draught in the chimney
- Induction flue gas fan
- Intended for firing with a storage tank
- Integrated charge thermostat, flue gas thermostat and cooling coil
- Stable and well insulated hatches that can be hinged to the left or right
- 0.5 meter wood length



NIBE™ GBM 10-15

GAS-FIRED BOILER

Wall-mounted gas-fired condensing boiler unit for use together with NIBE heat pumps. In combination with a heat pump, NIBE GBM 10-15 will supply the additional energy required by the system. This significantly reduces the primary energy requirement for backup heating and increases the energy efficiency of the heat pump.

NIBE GBM10-15 combined with a NIBE heat pump forms an excellent hybrid system. The hybrid system allows the heat pump to be sized to operate at temperatures above the freezing point resulting in a lower investment cost without any loss of comfort. The condensing gas boiler is always there to assist the heat pump.

NIBE GBM 10-15 is type C wall-mounted condensation boiler, this appliance is designed for use only with the tank and it can be installed in any kind of room and there are no limits as to ventilation or volume.

- Variable output between 3,5-15kW
- Back up heater for NIBE heat pumps
- Ideal for hybrid operation with NIBE heat pumps and supplying 80 °C constant flow temperature below bivalence point
- Ideal for renovation with existing gas connection
- Ideal for new building with limited electrical connection
- Supplied ready-to-connect with integrated circulation pump and mounting
- No limitation in ventilation or volume of the room where GBM10-15 is installed







ENERGY FOR LIFE



This brochure is a publication from NIBE. All product illustrations, facts and specifications are based on current information at the time of the publication's approval. NIBE makes reservations for any factual or printing errors in this brochure.

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