

NIBE air/water programme for residential use
Air/Water heat pump NIBE™ F2040

NEW

Features of NIBE™ F2040

Inverter controlled compressor

Cooling function

Outdoor unit with compact dimensions

Built-in condensate water tray

NIBE F2040

The NIBE monobloc air/water range consists of the new NIBE F2040-8, -12 and -16 for residential use. The updated programme gives a complete coverage of building heating power demand in the 5 -1 6 kW range

The F2040 are new 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 to 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.

Please visit www.nibe.eu for further information.

Flexible system solutions

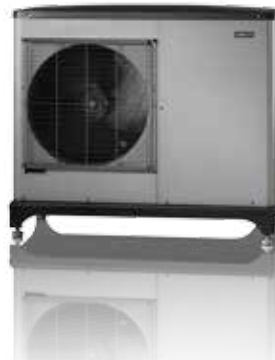
With the new NIBE F2040 range we can provide installations for residential use.

NIBE offers a broad selection of accessories and complete indoor modules. These have been developed with our air/water heat pumps to optimize their efficiency and give you the highest possible savings. Factors such as the size of your house, where you live and your domestic hot water demand will decide which system solution is most appropriate for you.

For the best combination, please consult your installer or NIBE partner.



NIBE F2040-8



NIBE F2040-12



NIBE F2040-16

VVM 310/VVM 500 system

Combinations

Outdoor unit	Indoor unit	For docking principles, please see www.nibe.eu/air-water/docking .
NIBE F2040-8	VVM 310/VVM 500	
NIBE F2040-12	VVM 310/VVM 500	
NIBE F2040-16	VVM 310/VVM 500	



All-in-one indoor unit cabinet solution VVM 310/500

NIBE VVM 310/500 indoor unit takes care of your hot water demand and ensures that the correct heating power is sent to your heating system in the most efficient way. Heat production is reliable and economical with integrated hot water coil, circulations pumps, solar coil (NIBE VVM 500), control system and immersion heater.

NIBE VVM 310/500 is equipped with the new generation controller for comfort, good economy and safe operation. Clear information about status, operating time and all temperatures in the system is shown on the easy-to-read display.

The indoor unit is connected to the air/water outdoor unit and your house heating distribution system. It is prepared for connection to a number of different products and accessories, e.g solar or other external heat source, extra water heater, swimming pool and climate systems with different temperatures.



VVM 320 system

Combinations

Outdoor unit	Indoor unit	For docking principles, please see www.nibe.eu/air-water/docking .
NIBE F2040-8	VVM 320	
NIBE F2040-12	VVM 320	



All-in-one indoor unit cabinet solution VVM 320

NIBE VVM 320 indoor unit takes care of your hot water demand and ensures that the correct heating power is sent to your heating system in the most efficient way. Heat production is reliable and economical with integrated hot water heater, circulations pumps, control system and immersion heater.

NIBE VVM 320 is equipped with the new generation controller for comfort, good economy and safe operation. Clear information about status, operating time and all temperatures in the system is shown on the large and easy to read display.

The indoor unit is connected to the air/water outdoor unit and your house heating distribution system. It is prepared for connection to a number of different products and accessories, e.g. other external heat source, extra water heater, swimming pool and climate systems with different temperatures.

SMO 20/40 system

Combinations

Outdoor unit	Controller	For docking principles, please see www.nibe.eu/air-water/docking .
NIBE F2040-8	SMO 20/40	
NIBE F2040-12	SMO 20/40	
NIBE F2040-16	SMO 20/40	



Individual set-up with the NIBE SMO 20/40 advanced controller

NIBE SMO 20/40 is an advanced controller module that supports a broad range of different hydraulic schemes. The SMO 20/40 enables you to combine a NIBE F2040 air/water heat pump with other equipment and create your own customised heating system. Start with one NIBE F2040 heat pump; if you need more power, you can install as many as eight NIBE F2040 heat pumps together in the same system. The addition of the SMO 20/40 intelligent control module allows your NIBE F2040 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, the NIBE SMO 40 can connect your heat pump to your pool and heat that too.
- Systems controlled by the NIBE SMO 40 can also incorporate solar panels, enabling you to use solar energy as a complementary heat source when available.

Technical specifications

NIBE™ F2040 outdoor module

Type	F2040-8	F2040-12	F2040-16
Heating			
COP at -15/45 °C*	1.95	1.94	1.89
COP at -7/45 °C*	2.47	2.48	2.43
COP at 2/45 °C*	2.82	2.94	2.84
COP at 2/35 °C*	3.79	3.89	3.78
COP at 7/35 °C*	4.60	4.74	4.66
COP at 7/45 °C *	3.47	3.66	3.59
COP at 7/55 °C*	3.11	3.10	2.91
Cooling			
COP at 27/7 °C*	3.17	3.13	3.33
COP at 27/18 °C*	3.50	3.52	3.91
COP at 35/7 °C*	2.68	2.77	2.88
COP at 35/18 °C*	3.08	3.12	3.12
Operating voltage	230 V 50 Hz, 230 V 2AC 50 Hz	230 V 50 Hz, 230 V 2AC 50 Hz	230 V 50 Hz, 230 V 2AC 50 Hz
Compressor	Twin rotary	Twin rotary	Twin rotary
Enclosure class	IP 24	IP 24	IP 24
Max outgoing heating medium temperature	°C	58	58
Refrigerant quantity (R410A)	kg	2.55	2.9
Connection heating medium male Ø	mm	G 1	G 1
Height with stand	mm	900	995
Width	mm	1025	1145
Depth	mm	420	450
Weight	kg	90	105

*In accordance with EN 14511.

Range

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

* Please discuss size with your NIBE partner for the correct dimensioning in your country.

Docking options

NIBE F2040 can be installed in several different ways. The requisite safety equipment must be installed in accordance with current regulations for all docking options. For docking options, please see www.nibe.eu/air-water/docking. When docking with the NIBE F2040, a total water volume in the boiler and accumulator of at least 10 litres boiler water per kW output on the heat pump is recommended.

		F2040-8	F2040-12	F2040-16
Max sound power level in accordance with EN-12102	Lw(A)	54	57	68
Max sound pressure level at 2 m	dB(A)	40	43	54

