

Efficiency at its best

High End Heat Pump | Basic Line BM 7010



Basic Line BM 7010 | Performance scope of 6 – 12 kW



For winter and summer

The newly developed Basic Line BM 7010 has been designed as a compact hot air pump for outdoor installation. The monoblock is particularly suitable for heating and cooling buildings with a low power demand.

Efficient and powerful

Thanks to the inverter-controlled compressor, the BM 7010 is extremely energy efficient. Due to the continuous power adjustment, it impresses with its strong performance. Even with outside temperatures of $-15\text{ }^{\circ}\text{C}$, flow temperatures of $55\text{ }^{\circ}\text{C}$ are possible.

The control technology of choice.

In the external unit you will find complete heat pump technology. Indoors, only the wall-mounted BM Mod 5010 control module or alternatively the innovative BM Hyd 5010 hydraulic module is installed.

Barely audible

The high-quality housing features special sound insulation. Noise emissions are reduced to a minimum. The installation of the external unit can be quickly and easily carried out. The installer does not require a refrigeration licence for this.



Features outdoor unit

- Tested and ready-to-use heat pump unit
- Chlorine-free R410A refrigerant with no ozone depletion
- Optimised design for transport and assembly
- Special insulation for noise reduction
- Service-friendly design
- Weather-resistant housing
- Speed-controlled fans
- Speed-controlled inverter rotating piston compressor
- Electronically controlled expansion valves
- Defrosting: reverse circuit with 4-way valve
- Special pipe routing in the evaporator to avoid glaciation
- Active cooling through reversible refrigeration circuit
- Liquid separator in the refrigerant circuit for maximum reliability
- Rear mounting of the connection
- Dimensions: (H x W x D) 1200 x 1250 x 400 mm
- Reduced footprint 0.5 m²

Optional accessories

- Webinterface BN Web
- EcoStock hot water tank
- Optional:
 - BM Mod 5010 control module
 - BM Hyd 5010 hydraulic module

Highlights

- Low operating costs with COP values up to 4.8
- Small support surface for the outdoor unit
- Small space requirement for the heating system
- Selection options for the equipment
- Simple and quick installation

Basic Line BM Mod 5010 | Control module



Features as required

The outdoor unit contains the entire heat pump technology of the BM 7010 monoblock. In the building only the associated control technology is installed, optionally as a control module or as a hydraulic station.

Basic control for the monoblock

The control module is ideal when using the monoblock with only one control loop. Connected via a cable to the external unit, it can be mounted on any inner wall to save space.

Ease of operation

The module control panel is made of a high-quality LCD display screen with control buttons. The installed BasicPro software is simple and intuitive to use. Important operating data is continuously displayed.

A solid and efficient system

With the control module the monoblock is an efficient heating and cooling system which is easy to install. As a supplementary solution for the hot water supply, the EcoWell domestic hot water heat pump is recommended.

Control module features

- Operating monoblock unit for indoor installation
- Mounting distance from the outdoor unit max. 50 m
- Connection option for a control loop
- Monochrome, semi-graphical, 8-line display
- Central power switch
- 6 convenient control buttons
- 3 signal LEDs to indicate the operating state
- Switchover option from heating to cooling mode
- Intuitively operated BasicPro control software
- Upgradable with web interface
- Compact, space-saving design
- Metal housing (W x H x D) 360 x 400 x 170 mm
- Housing cover with clip closure
- Wall-mounted installation

Optional accessories

- Webinterface NetBase BN Web
- Smartphone control via BasicPro Mobile

Highlights

- High-quality control technology
- Intuitively operated software
- Upgradeable for Internet control
- Space-saving, wall-mounted installation

Basic Line BM Hyd 5010 | Hydraulic station



Using the monoblock for more

The flexible hydraulic station provides the opportunity to connect further devices, such as a service water tank or a PV module. This enables the station to become the central switching interface for your heating system.

Ensuring the hot water supply

Features include a high-quality circulation pump and an electric immersion heater. With an additional water storage tank, the hydraulic station can therefore ensure a hot water supply for your home.

With the software ideally set up

You can connect one additional regulator circuits. The functions required for this have already been stored in the software. Control is carried out via the high-quality LCD control panel.

Always a good decision

No matter whether you choose the space-saving control module or the flexible hydraulic station, you will have taken the right decision in either case. Because in connection with the monoblock, both form an efficient and perfect system.



Hydraulic station features

- Monoblock operating unit for indoor installation
- Mounting distance from the outdoor unit max. 50 m
- Monochrome, semi-graphical, 8-line display
- Central power switch
- 6 convenient control buttons
- 3 signal LEDs indicate the operating state
- Switchover option from heating to cooling mode
- Intuitively operated BasicPro control software
- Pre-programmed functions for auxiliary devices
- Class A efficiency variable-speed circulation pump
- Integrated 6 kW electric immersion heater
- Combination fittings with safety valve
- Built-in filling pressure gauge
- Automatic air deflector
- Docking facilities for up to 4 additional units
 - PV module
 - Living space ventilation
 - Service water tank
 - Mixer circuit
- Compact, space-saving design
- Metal housing (W x H x D) 743 x 750 x 303 mm
- Housing cover with clip closure
- Wall-mounted installation

Optional accessories

- Webinterface NetBase BN Web
- Smartphone control via BASICPRO mobile
- Three-way motorised ball valve for hot water mode
- Additional hydraulic circuit for frost protection of the unit in the case of a power failure

Highlights

- High-quality control technology
- Variable equipment options
- Intuitively operated software
- Upgradeable for Internet control

Technical data BM 7010		7010.5
Heating capacity (A-7/W35)	kW	7.1
Power consumption	kW	2.8
Coefficient of performance (COP) at A-7/W35		2.6
Heating capacity, regulated up to (A2/W35)	kW	10.8
Power consumption	kW	2.8
Coefficient of performance (COP) at A2/W35 and 6.9 kW regulated		3.6
Heating capacity, regulated up to (A7/W35)	kW	12.3
Power consumption	kW	2.9
Coefficient of performance (COP) at A7/W35 and 7.9 kW regulated		4.4
Cooling capacity, regulated up to (A35/W7)	kW	7.8
Power consumption	kW	3.0
Coefficient of performance (COP) at A35/W7		2.5
Space heating energy efficiency		A+
Space heating energy efficiency class of the package ²⁾		A+
Heating water flow ($\Delta t=5K$) at 8.0 kW	m ³ /h	1.4
Air flow rate (maximum)	m ³ /h	7000
Operating limit		A-15/W45; A-7/W50; A0/W55
Compressor		Twin-Rotary Inverter
Refrigerant		R410A
Sound pressure level (external unit), 5 m free field	dB(A)	43

Electrical data		
Electric power supply (single-phase)	(V, Phase, Hz)	220-240, 1, 50
Maximum operating current	A	18.5
Main fuse (provided by the customer)	A	C 25 A
Control fuse (provided by the customer)	A	10
Electrical heating element	kW	6

Dimensions, weights, connections		
Refrigerant filling	kg	3.5
Weight of outdoor unit	kg	140
Heating connections		R1" a
External unit dimensions W x H x D	mm	1250 x 1200 x 400

Subject to technical changes.

¹⁾The tolerances according to EN 12900 apply to the performance data listed above. ²⁾A WATERKOTTE controller WPRs, class II is installed.



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