

HEAT PUMPS

2026

For residential and apartment buildings
For commercial and industrial properties

WITH
REFRIGERANTS
R410A
R407C



AIR-TO-WATER | GROUND-TO-WATER | WATER-TO-WATER
POWER FROM 1 TO 64 kW | CASCADES OVER 1000 kW





Dear Customers and Business Partners,

The year 2026 is the last opportunity to hold in your hands this catalogue featuring traditional refrigerants R410A and R407C in such a comprehensive form and with the full breadth of the product range that has appealed to customers across Europe and beyond for many years.



The energy market is undergoing dynamic development, and the legislative framework governing refrigerants is responding to the need to reduce greenhouse gas emissions. The refrigerants used to date – R410A (GWP = 2088) and R407C (GWP = 1774) – with their higher global warming potential, are gradually being phased down in favour of low-emission alternatives. The first milestone is 1 January 2027, from which it will no longer be possible to place compact heat pumps using these refrigerants and with an output of up to 50 kW on the market. The future therefore belongs to propane – the natural refrigerant R290 with an exceptionally low GWP value of 3. MasterTherm has been offering these heat pumps for several years and continues to expand the portfolio.

However, the new technology brings certain different installation requirements to ensure safe operation of these units. In particular, owners of existing installations considering the replacement of their heat pump, as well as owners of older properties with limited space options, should pay close attention to this fact. In 2027, only part of the current product range will remain available: the BoxAir 45/60 Inverter Split models and the high-capacity AquaMaster 2 Z units.

Naturally, MasterTherm continues to provide a full warranty for all equipment, as well as subsequent service and spare parts availability. Our partnership with future users involves no limitations, even in the case of these traditional heat pumps.

At the same time, customers can benefit from the advantages resulting from the strategic partnership between MasterTherm and Atrea. We combine top-level expertise in ventilation, heat recovery and indoor climate control with more than thirty years of MasterTherm's experience in the sales, manufacturing and development of heat pumps. This enables us to offer comprehensive systems for ventilation, heat recovery, heating and cooling for family houses, schools, commercial buildings and industrial applications. All development and production take place exclusively in the Czech Republic.

Thank you for the trust you place in the MasterTherm and Atrea brands. Your support represents both a commitment and a motivation for us to continue developing our portfolio in line with changing legislative conditions and technological progress. Although the era of traditional refrigerants is gradually coming to a close, MasterTherm is fully prepared for the new challenges and will continue to deliver the very best technical solutions.

Tomáš Kott
Sales Director

MasterTherm: A CZECH DEVELOPMENT AND MANUFACTURING TRADITION SINCE 1994

MasterTherm heat pumps, Ltd., is a Czech manufacturer of air-to-water, ground-to-water and water-to-water heat pumps for family and apartment houses as well as industrial buildings. All technical development and production of MasterTherm heat pumps takes place in the Czech Republic, EU. MasterTherm exports more than two thirds of its production abroad, especially to Western Europe.

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Heat pump: questions and answers

What is the purpose of a heat pump?

A heat pump provides heat for the building, both for heating and hot water. It fully replaces an electric or gas boiler. It provides energy without any negative impact on the environment: **the heat pump is a renewable energy source.**

Where does its high efficiency come from?

Compared to an electric or gas boiler, a heat pump is significantly more efficient because it also provides heat for your home from the surrounding environment: air, ground or water. The electric power of the heat pump only accounts for about 20-30% of the heat energy collected.

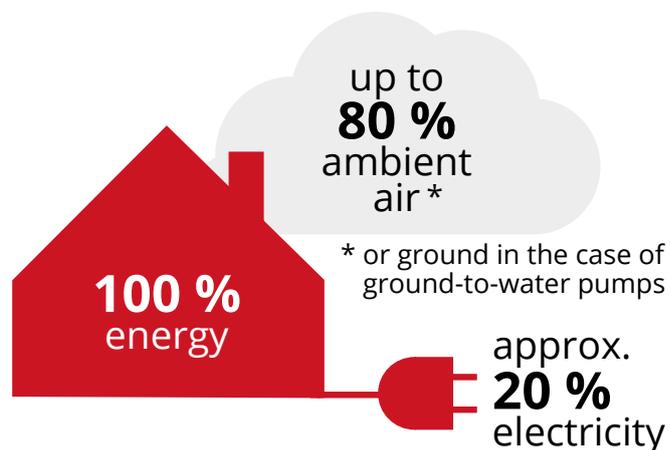
This is what yields key energy savings compared to those of a conventional electric or gas boiler. The efficient use of freely available energy from the environment multiplies the heating efficiency by up to 5.5 times (SCOP = 5.5) compared to an electric boiler. And your heating bills can be up to 80% lower.

What is the seasonal SCOP heating factor?

The heating capacity of a heat pump is much higher than the electric power input of a compressor, i.e. the efficiency of the pump is many times higher than 100%. The ratio of the heating power and the compressor input is called the COP.

The seasonal SCOP is the ratio of the total amount of heat produced to the total electricity consumption of the heat pump for the entire heating season.

Depending on the kind and type of pump, it can reach values of 3.5 to 5.5.



Prompt returns thanks to subsidies:

In most countries heat pumps are registered in the lists for the subsidy titles. Ask your local distributor about terms and conditions for subsidies. MasterTherm heat pumps have a valid registration for subsidies.

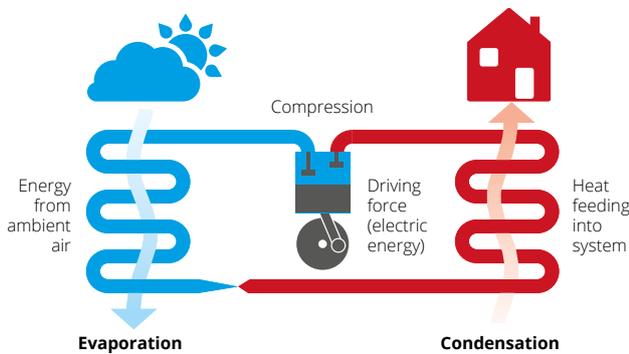


The heat pump can also cool thanks to the reverse mode. During the summer months, it can provide long-term cooling of the building and thus significantly increases comfort during summer.



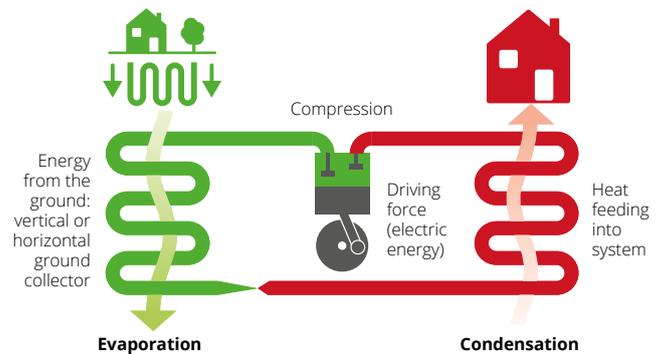


SYSTEMS OF HEAT PUMPS



Air-to-water

Air-to-water heat pumps are based on the principle of extracting heat from the ambient air, whose temperature can be many degrees Celsius below zero. The heat extracted from the environment is transferred by the heat pump to the heating water that heats the building, or is used for the preparation of hot water. The system achieves a seasonal efficiency of up to 4.5 times higher than that of a conventional electric boiler and thus delivers significant energy savings.



Ground-to-water

Ground-to-water heat pumps extract energy directly from the ground using a vertical or flat plate collector. An antifreeze mixture circulates through the collector and heats the ground. Thanks to the constant temperature of the ground, the heat pump has a stable source of energy throughout the year. The heat extracted from the ground is then transferred to the building. The system achieves a seasonal efficiency up to 5.5 times higher than that of a conventional electric boiler.

Water-to-water

Water-to-water heat pumps are also available on request for the use of thermal energy from ground or surface water. They are based on the ground-to-water AquaMaster series. They are distinctive for their more sediment-resistant evaporator (coax) and modified electrical equipment.



Model series



BoxAir Inverter

Air-to-water

BoxAir Inverter is the best-selling range of air-to-water heat pump with exceptional operating efficiency. It provides heat and hot water for small newly-built housing as well as multi-generational family residences with a heat loss of up to 16 kW. Also suitable for large buildings and industrial applications.

KEY FEATURES

- Available in compact and split versions and with built-in hot water tank
- Power from 2 to 22 kW
- Energy efficiency A+++
- Extremely quiet operation
- Top-of-the-range frequency-controlled compressor
- Integrated control system for up to 6 heating circuits
- Online control and monitoring
- Reverse-cooling mode



AquaMaster

Ground-to-water

The bestselling MasterTherm heat pump range in Western Europe. By harnessing energy directly from the ground, the AquaMaster range offers the best year-round efficiency and exceptional reliability and longevity. It is suitable for heating and cooling all types of buildings: from passive houses with minimal energy loss to conventional family houses to large buildings including industrial applications.

KEY FEATURE

- Available in ON/OFF and frequency-controlled compressor versions
- Power from 1 to 48 kW
- Energy efficiency A+++
- Adaptation to water-to-water at no extra cost
- Independent of outside temperature or weather
- Integrated control system for up to 6 heating circuits
- Online control and monitoring
- Reversing cooling or passive cooling



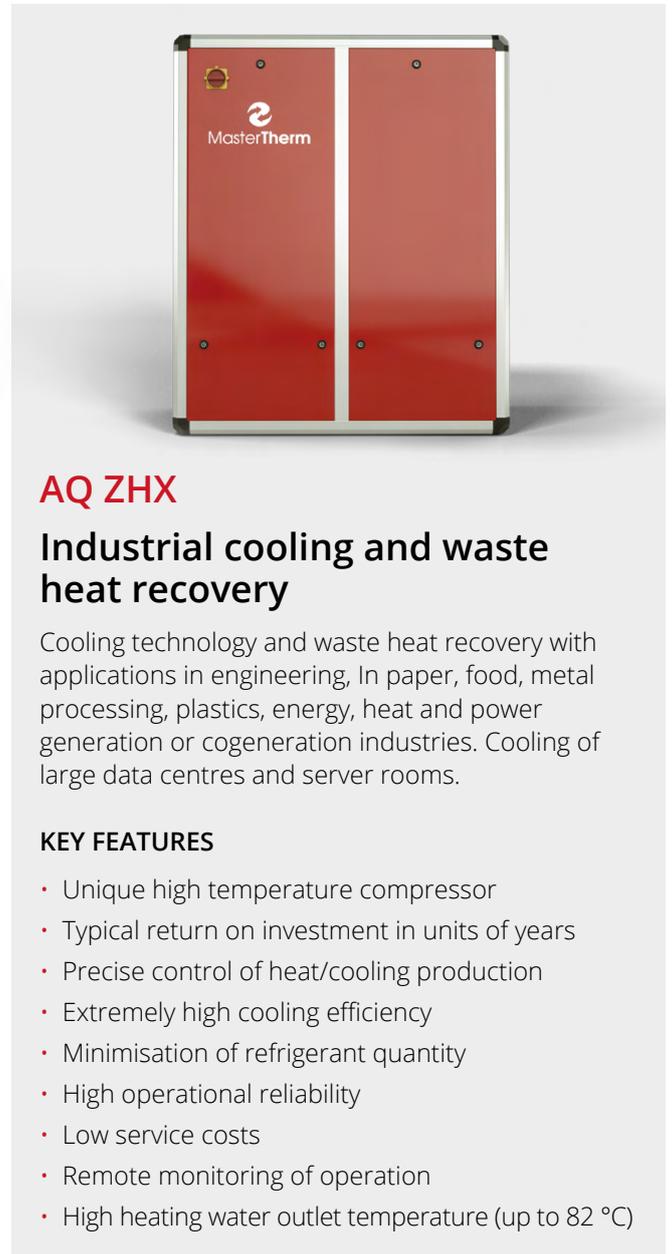
BoxAir and AquaMaster for large-scale and industrial facilities

Air-to-water / Ground-to-water

Special heat pumps for high performance needs and specific industrial installations. Air-to-water and ground-to-water systems, compact and split solutions, cascade connection. Extensions of the BoxAir and AquaMaster model series.

KEY FEATURES

- Air-to-water power up to 35 kW (per compressor circuit in compact and split designs)
- Ground-to-water power up to 64 kW
- Total capacity of the cascade up to 1000 kW
- MasterLan power cascade control
- ModBUS RTU communication protocol
- Online control and monitoring
- Option for reversible or passive cooling
- Also suitable for industrial cooling and waste heat recovery systems



AQ ZHX

Industrial cooling and waste heat recovery

Cooling technology and waste heat recovery with applications in engineering, In paper, food, metal processing, plastics, energy, heat and power generation or cogeneration industries. Cooling of large data centres and server rooms.

KEY FEATURES

- Unique high temperature compressor
- Typical return on investment in units of years
- Precise control of heat/cooling production
- Extremely high cooling efficiency
- Minimisation of refrigerant quantity
- High operational reliability
- Low service costs
- Remote monitoring of operation
- High heating water outlet temperature (up to 82 °C)

Industrial projects Implemented

- Cooling of the CEZ Group Energo cogeneration units
 - Cooling and heat recovery of the particle accelerator at the Institute of Nuclear Physics of the Czech Academy of Sciences
 - Cooling and heat recovery of the national supercomputer at the IT4Innovations centre
 - Cooling of diagnostic and surgical technologies at the Homolka Hospital in Prague
 - Cooling and heat recovery of the production technology of The Candy Plus Sweet Factory
- ... and many more

7 reasons to choose MasterTherm

1 A tradition since 1994



MasterTherm was established in the Czech Republic in the 1990s, originally as an importer of heat pumps from the USA. Over years of gradual work on our own, we have become a manufacturer with a complete in-house development. All heat pumps from MasterTherm are invented, designed and manufactured in the Czech Republic.

2 We offer a comprehensive and smart solution



With us you get a heating system, not just a separate heat source. We supply complete heat pump systems of all types, including our own control software that can work photovoltaics or automatically react to future spot electricity prices.

3 Quality and innovation



MasterTherm heat pumps are characterised by their efficient design, which ensures extremely quiet operation and trouble-free service access. We are among the pioneers in the development of electronic refrigerant injection (EEV), infinitely variable compressor power control (inverter) and software for controlling heating circuits.

4 Service and warranty



With a network of in-house technicians and immediate availability of spare parts, we guarantee nationwide service coverage. When you buy a heat pump, our journey together is just beginning. We offer online service monitoring of pumps and an extended warranty for 7 years with unlimited coverage.

5 Reputation abroad



MasterTherm exports more than 70% of its production abroad, especially to Western Europe. The most important foreign markets include the UK, Ireland, the Netherlands, Belgium, Italy, Switzerland, Estonia and Slovakia.

6 Awards and certificates



Our pumps are among the most appreciated, both at home and abroad. In addition to more than 20 international awards, we hold a ISO quality management certificate, Heat Pump Keymark certificate, certificates from the authorized testing laboratory ETI (SZÚ) in Brno, Czech Republic, EU, a certificate from the BBA of the United Kingdom and others.

7 Subsidies



In most countries heat pumps are registered in lists for subsidy titles. Ask your local distributor about terms and conditions of subsidies.



MASTERTHERM HOLDS THE FOLLOWING CERTIFICATES:

European certification mark
The Heat Pump KEYMARK



Heat Pump KEYMARK Quality Certificate for the Single European Market

The Heat Pump KEYMARK certificate is the European independent quality certificate for heat pumps entering the Single Market and covered by EU Regulations 813/2013 and 814/2013 – efficiency requirements (ecodesign).



Certificate of the testing institute Certificate of compliance with Czech and EU standards

Performance parameters and compliance of product characteristics with the requirements of the EN 14 511 standard. The MasterTherm heat pumps are tested and certified by the accredited Engineering Testing Institute (SZÚ) in Brno, Czech Republic, EU.



BBA MCS Certificate British quality certificate, allows to draw on British government incentives

MasterTherm heat pumps are certified by the British Board of Agrément (BBA) according to the MCS (Microgeneration Certification Scheme) stand-ard, designed for systems for the production of heat and electricity from re-newable sources.

ISO 9001
BUREAU VERITAS
Certification



ISO 9001:2015 Certificate International Quality Certificate

Quality Management System Certificate in accordance with ISO 9001:2015. Scope of certification: manufacture, sale, installation and service of heat pumps. Certification body: BUREAUVERITAS GROUP.



Type conformity assessment protocol

Certificate confirming the characteristics of the products with the stated parameters

Certificate confirming that the type test has been successfully carried out on MasterTherm products. It proves that the stated technical specifications of the products comply with the Czech and European Union standards.



We deliver and service all over Europe



Establishment & showroom
Okrajová 187,
Chýně-Prague West,
Czech Republic

Production plant
Dolní Tříč 636,
Jablonec nad Jizerou,
Czech Republic

Advanced technologies

MasterTherm Online



Connecting the MasterTherm heat pump to the internet allows it **to be controlled from anywhere via the web browser on Mastertherm.online or via an app on a mobile phone or tablet.** You are thus in full control of your home's heat, which is within easy reach. Continuous service supervision and remote diagnostics included.

iOS app



Android app



Touchscreen display



The pGDx terminal with a 4.3-inch touchscreen and its own processor is the main control panel of the heat pump. With its help, the desired indoor temperature and all other pump functions can be easily set. It integrates the function of a room instrument to control the temperature of the heated / cooled space. It is possible to connect control panels or temperature sensors of adjacent heating circuits to the terminal and control everything from one place.

It supports communication within Smart Grids for efficient management of electricity production and consumption. Connection via Ethernet (cable) or Wi-Fi, automatic online updates.

Unique control software



MasterTherm heat pumps are controlled by an internally developed app for controlling the cooling circuit including its peripherals. It uses an equithermal system based on following the outside temperature and complemented by advanced backward temperature control in the building based on internal room temperature sensors. As a result, the heat pump automatically maintains the building at a constant temperature with extreme precision and never operates at a higher heating water temperature than is strictly necessary. It works also in cooperation with photovoltaics.

Desuperheater



Desuperheater is an integrated device designed for efficient heating of water to high temperature with high efficiency. It is a heat exchanger that extracts high temperature energy at the outlet of the hot steam from the compressor. This energy is transferred through a separate hydraulic circuit to the hot-water storage tank. The water is heated while the compressor is running as a "by-product" of the building's heating. The heating efficiency when using a desuperheater is identical to the heating factor for heating.



Electronically controlled expansion valve (EEV)



MasterTherm is one of the leaders in the use of electronic refrigerant injection technology. The EEV allows for precise control of the superheat temperature of the refrigerant vapour in the evaporator. This allows the evaporator area to be used with maximum effect for the evaporation of the refrigerant, resulting in higher plant efficiency. The EEV thus increases the heating factor, operational reliability and lifetime.

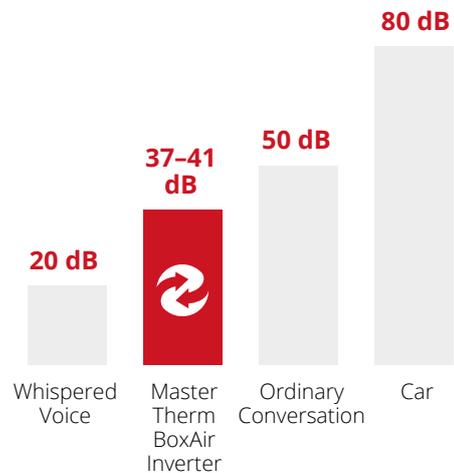
The EEV also protects the compressor against liquid injection at high loads. On the other hand, in the low-load mode (e.g., with a heating duct outlet temperature of less than 30°C), the electronic valve can be fully opened and a high-heating factor can be achieved, which is not possible with a thermostatic valve (TEV).

Heating in winter, cooling in summer



All MasterTherm heat pumps can fully cool the building. By purchasing a pump, you are, therefore, also purchasing the perfect cooling solution for summer. Thanks to its design, it has approximately half the running costs of a conventional air conditioner. Additionally, even while in cooling mode, it can simultaneously heat hot water for domestic use.

For ground-to-water pumps, we offer **a passive cooling module that transfers heat from the interior to the ground collector without the need for a compressor.** This ensures extremely efficient summer cooling and contributes to the regeneration of the collector after the heating season.



Quiet compressors and fans



All MasterTherm heat pumps use quiet-scroll or double-rotary compressors, located in the unit in a special anti-vibration frame. Of course, the pump casing itself is carefully soundproofed.

For air-to-water heat pumps, we use the most modern low-speed fans with very low sound pressure levels, which ensure minimum noise levels in outdoor units

Frequency-controlled BLDC compressor



A compressor with a frequency converter (inverter) allows the heat pump continuously to regulate the heating / cooling capacity. The main advantages of inverter technology are electricity savings, more efficient use of heat exchangers, a reduction in the number of compressor starts, a reduction in the energy required to defrost the evaporator (air-to-water system), and as a result, an increase in the heating factor.

Thanks to the inverter, the pump does not require the installation of a storage tank, thus saving investment costs and space in the machine room.

HOW TO GET A MASTERTHERM HEAT PUMP?



I WANT HEATING

- with a renewable energy source?
- comfortably?
- and still save money?



I WANT A HEAT PUMP

WE CAN HELP:

To calculate the heat loss of the house

To assess the heating system

To select a suitable subsidy plan

I DEMAND A HEAT PUMP

Contact your **local distributor** or us on **info@mastertherm.cz**

We will then forward the request to a business partner* in your region, who will work with us on preparing a

PRICE OFFER

We are always available for every question, customer and business partner.

If you like our offer, the business partner will create an

ORDER

After a binding order, the heat pump will be put into production.

Once the pump is manufactured, it will be handed over to the business partner, who will take care of its transport to you and its

INSTALLATION

Then all that is left is to set the heat pump into

OPERATION

Installation will be handled either by our partner or directly by MasterTherm's service technician. All systems and the installation itself will be checked before the installation.

AFTER THE INSTALLATION, OUR JOURNEY TOGETHER BEGINS, MARKED FOR MANY YEARS TO COME BY YOUR HOME THERMAL COMFORT AND LOWER ENERGY BILLS.

AFTER THE FIRST AND EVERY SUBSEQUENT SEASON, WE'LL COME TO YOUR HOME FOR A PREVENTIVE SERVICE INSPECTION TO KEEP YOUR HEAT PUMP IN TOP SHAPE.**

*MasterTherm's partner network consists of only certified and vetted companies.

**Regular service inspections are a mandatory part of the optional 7-year warranty.

BoxAir Inverter

Air-to-water



Czech
product



A tradition
since 1994



Exported into
30 countries
worldwide



7-year
warranty



Online
control

BoxAir Inverter

The BoxAir Inverter is the best-selling range of high-end air-to-water heat pumps with exceptional operating efficiency.

The BoxAir Inverter provides heat and hot water for small housing units as well as intergenerational family residences with a heat loss of up to 16 kW. And it can also serve as a cooling facility in the summer months.

The BoxAir Inverter is also suitable for apartment buildings or commercial installations. Several heat pumps can be cascaded in succession if higher heating output is required.



BoxAir Inverter

All in one,
all outside.



BoxAir Inverter Split

Evaporator outside,
compressor
electronics inside.



BoxAir Inverter Split Combi

Split with an
integrated hot water
storage tank.



KEY FEATURES

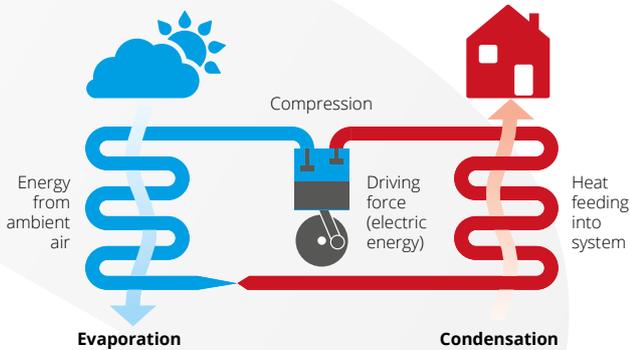
- Power from 2 to 22 kW
- Energy efficiency A++(+)
- Extremely quiet operation according to current EU standards
- Top-quality frequency-controlled compressor
- Integrated control system for up to 6 heating circuits
- Online control and monitoring
- Warranty and after-warranty service with direct cooperation with the manufacturer
- Reverse cooling mode

European certification mark
The Heat Pump KEYMARK





AIR-TO-WATER HEAT PUMPS



HOW THEY WORK

Air-to-water heat pumps are based on the principle of extracting heat from the ambient air, the temperature of which can be many degrees Celsius below zero. The heat extracted from the environment is transferred by the heat pump to the heating water that heats the building or is used in the preparation of hot water. **The system achieves seasonal efficiencies of up to 4.5 times higher than those of a conventional electric boiler and thus delivers significant energy savings.**



MAIN ADVANTAGES

The major advantages of air-to-water pumps include **relatively low investment costs, quick and easy installation and the easy availability of a primary energy source:** air is everywhere around us.



HEATS IN WINTER, COOLS IN SUMMER

Air-to-water heat pumps are suitable not only for heating and heating hot water or swimming pools all year round, but also for cooling the building in the summer months thanks to the possibility of reverse operation.

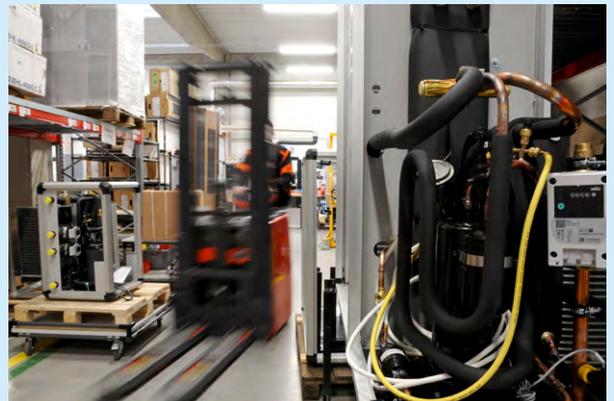


HEAT PUMPS AND SUBSIDIES

Heat pumps are recognised as a **renewable energy source**. Ask your local distributor if it is possible to obtain subsidies for them.

MASTERTHERM: A CZECH MANUFACTURING TRADITION SINCE 1994

MasterTherm is a manufacturer of air-to-water, ground-to-water and water-to-water heat pumps for family and apartment houses and industrial buildings. All technical development and production of MasterTherm heat pumps is carried out in the Czech Republic, EU.



More than two-thirds of MasterTherm's production are exported abroad, especially to Western Europe. MasterTherm also carries out special projects such as heat recovery systems at the IT4Innovations supercomputer centre in Ostrava, Czech Republic, the cooling and recovery of waste heat from particle accelerators at the Institute of Nuclear Physics of the Czech Academy of Sciences or cooling and heat recovery of CEZ Group Energo cogeneration units.



BoxAir Inverter

All in one, all outside

Extremely quiet and efficient air-to-water heat pump for family or apartment houses. Repeatedly awarded by experts worldwide.



Fans and evaporator

Super-quiet fans with fluent rotation control and evaporator with directed condensate drain.

Frequency-controlled compressor and electronically-controlled expansion valve

Top-notch technology increases efficiency (heating factor), operational reliability and equipment lifetime. Also included is a built-in speed-controlled circulator.

Durable all-aluminium cabinet

Constructed of aluminium profiles and panels, it resists weathering and corrosion over the long term. Default colour: grey RAL 9006.

A⁺⁺⁽⁺⁾ energy efficiency



7-year warranty



online control

Unique MasterTherm software for pump control

- Custom application for controlling the cooling circuit and peripherals
- Equithermal MaR (measurement and regulation) system
- Advanced **feedback control of building temperature** based on internal room temperature sensors
- Control via touchscreen terminal or online application
- Includes **remote service monitoring** and diagnostics
- Control of up to 6 heating circuits, including the possibility of connecting a pool or solar panel



INSTALLATION EXAMPLES





Model	Performance at A7W35	Thermal loss of the object Q_z	Seasonal energy efficiency of heating at 35 °C low temperature operation		Seasonal energy efficiency of heating at 55 °C medium temperature operation		Acoustic pressure level L_p (5 m outside of unit)	Order number (according to heating circuit control)		
	kW	kW	SCOP	Class	SCOP	Class		Regulation STANDARD (μ PC)	Regulation PLUS (pCO5)	
	BoxAir 22 I	2-7	up to 5.5	4.38	A++	3.33	A++	37	1BA22I-01	1BA22I-11
	BoxAir 26 I	3-9	up to 8.5	4.29	A++	3.24	A++	37	1BA26I-01	1BA26I-11
	BoxAir 30 I	5-12	up to 10	4.75	A+++	3.61	A++	37	1BA30I-01	1BA30I-11
	BoxAir 37 I	5-17	up to 13	4.49	A+++	3.51	A++	41	1BA37I-01	1BA37I-11
	BoxAir 45 I	7-22	up to 16	4.46	A+++	3.48	A++	41	1BA45I-01	1BA45I-11

Installation diagrams, dimensions and detailed technical data for all models can be found in the Technical Data section.



The BoxAir 22 I and BoxAir 26 I models offer even more compact dimensions.

Designed for	single-circuit heating systems	multiple-circuit heating systems
Main heating circuit	yes	yes
Auxiliary heating circuit	-	independently 2 incl. mixing
Space temperature	in 1 zone	in 2 zones
Hot water (DHW)	yes	yes
Selectable	-	up to 6 heating circuits

BASIC FEATURES

- Compact monobloc outdoor air-to-water heat pump
 - Easy installation without the need for intervention of the cooling (compressor) circuit and the heating system in place
 - Low requirements for the volume of heating water in the system
 - Support for connection to the power cascade without the need for a third-party MaR (measurement and regulation) system
-
- Zero internal noise
 - Minimised external noise due to ultra-quiet fans
-
- Use for heating and cooling of the building including hot water preparation
-
- Heating water temperature up to 60 °C
 - Outdoor temperature range from -20 °C to +40 °C
 - Integrated electric boiler (automatic connection of an electric supply if required without affecting the thermal comfort of the building)



Optional equipment

7-year warranty on the complete pump **107Z**

Extended warranty valid from the time of the pump's installation

MasterTherm Online App **10ICON**

Connecting the pump to a central MasterTherm server allows the pump to be controlled online from anywhere via the web or app. Includes remote service access.

Reverse cooling mode **10CH**

Reverse pump operation allowing long-term cooling of the interior in summer.

Room unit for auxiliary heating circuit **10PAD**

Terminal with temperature sensor for placing additional heating circuits in the reference rooms (only for PLUS control).

Room unit for auxiliary heating circuit with humidity sensor **10PADH**

An extra humidity sensor for eliminating condensation during cooling (only for PLUS control regulation).

Expansion module for PLUS control **10EK**

Increases the number of regulated auxiliary heating circuits up to 6 (from the basic 2).

Integrated electric meter 3x 65 A **10EM65AMID**

Built-in 3-phase electric meter for local measurement of electricity consumption. MID certification.

RAL colour **10CO**

Individual colour for pump panels.

BoxAir Inverter Split

Evaporator outside,
compressor electronics
inside

Extremely quiet and economical air-to-water heat pump in split design. The most valuable parts are stored in the unit inside the object. Even lower outdoor noise level of the pump.

Unique indoor unit

Typically located in the mechanical room of the building and therefore protected against the weather. It contains the most valuable parts of the pump including a frequency-controlled compressor, an electronically-controlled expansion valve, control electronics, circulator and more.



Outdoor unit

It is more dimensionally efficient than the BoxAir Inverter all-in-one pumps. It includes an evaporator and ultra-quiet fans with widely variable speed control. Thanks to the compressor located in the indoor unit, the outdoor unit is even quieter than the BoxAir Inverter all-in-one model. The durable all-aluminum construction of profiles and panels is long-lasting and resistant to weathering and corrosion.



The BoxAir 22 IS and BoxAir 26 IS models offer a more compact size of the outdoor unit due to the presence of only one fan and a smaller evaporator.

A⁺⁺⁺ energy efficiency

7-year warranty

online control

Unique MasterTherm software for pump control

- Custom application for controlling the cooling circuit and peripherals
- Equithermal MaR (measurement and regulation) system
- Advanced **feedback control of the building temperature** based on inter-nal room temperature sensors
- Control via touchscreen terminal or **online application**
- Includes **remote service monitoring** and diagnostics
- Control of up to 6 heating circuits, including the possibility of connecting a pool or solar panel



INSTALLATION EXAMPLES





Model	Performance at A7W35	Thermal loss of the object Q_z	Seasonal energy efficiency of heating at 35 °C low temperature operation		Seasonal energy efficiency of heating at 55 °C medium temperature operation		Acoustic pressure level L_p (5 m outside of unit)	Order number (according to heating circuit control)
	kW	kW	SCOP	Class	SCOP	Class		
 BoxAir 22 IS	2-7	up to 5.5	4.38	A++	3.33	A++	34	1BA22IS-11
	BoxAir 26 IS	3-9	up to 8.5	4.29	A++	3.24	A++	34
 BoxAir 37 IS	5-17	up to 13	4.49	A+++	3.51	A++	41	1BA37IS-11
	BoxAir 45 IS	7-22	up to 16	4.46	A+++	3.48	A++	41

Installation diagrams, dimensions and detailed technical data for all models can be found in the Technical Data section.

Heating circuit control	PLUS Regulation
Main heating circuit	yes
Auxiliary heating circuit	independently 2 incl. mixing
Space temperature	in 2 zones
Hot water (DHW)	yes
Optional	up to 6 heating circuits

BASIC FEATURES

- Air-to-water heat pump of split design
 - The most valuable parts of the heat pump are stored in a unit inside the building
 - The connecting pipes of the indoor and outdoor units form the low pressure (cold) part of the cooling circuit, so that heat loss through the pipe-work is completely eliminated
 - Distance between indoor and outdoor units up to 15 metres
 - Low heating water volume requirements in the system
 - Support for connection to the power cascade without the need for a third-party MaR (measurement and control) system
-
- Minimised noise in the outdoor unit due to ultra-quiet fans and no compressor
 - Indoor unit with compressor sound attenuated to the level of a conventional refrigerator
-
- Use for heating and cooling of the building including hot water supply
-
- Heating water temperature up to 60 °C
 - Outdoor temperature range from -20 °C to +40 °C
 - Integrated electric boiler (automatic connection of electric supply if required without affecting the thermal comfort of the building)



Optional equipment

7-year warranty on the complete pump **107Z**

Extended warranty valid from the time the pump is delivered. Only in combination with 1O1CON.

MasterTherm Online App **1O1CON**

Connecting the pump to a central MasterTherm server allows the pump to be controlled online from anywhere using the web or app. Includes remote service access.

Reverse cooling mode **1OCH**

Reverse operation of the pump for long-term cooling of the interior in summer.

Desuperheater for high efficiency hot water heating **1ODESUP**

Integrated device that uses a separate hydraulic circuit to remove the heat of superheated steam at the compressor outlet and increase the efficiency of hot water preparation (heating). When the compressor is in operation (heating and cooling mode), part of its thermal energy is permanently transferred to the hot water tank.

Room unit for auxiliary heating circuit **1OPAD**

Terminal with temperature sensor for placing additional heating circuits in the reference rooms (only for PLUS control).

Room unit for auxiliary heating circuit with humidity sensor **1OPADH**

Includes humidity sensor for eliminating condensation of air humidity during cooling (only for PLUS control).

PLUS control expansion module **1OEK**

Increases the number of regulated auxiliary heating circuits up to 6 (from the basic 2).

Integrated electric meter 3x 65 A **1OEM65AMID**

Integrated 3-phase electric meter for local metering of electricity consumption. MID certification.

RAL colour **1OCO**

Individual colour for the pump panels.

Bracket for hanging the external unit on the wall

Suitable for tighter space conditions.

BoxAir Inverter Split Combi

Split with integrated hot water tank

Indoor unit including 170l hot water storage tank

The Combi version differs from the BoxAir Inverter Split by having an integrated hot water storage tank.



Outdoor unit

Constructed of aluminum profiles and panels, the outdoor unit resists weather and corrosion for a long time. Here the BoxAir 22 ISC and 26 ISC models are shown. For the 37 ISC model, the cabinet is twice as high.



BASIC FEATURES



- Air-to-water heat pump of split design
- Includes integrated 170-litre hot water tank to save space in the utility room. (BoxAir Inverter and BoxAir Inverter Split models work with an external tank.)

A⁺⁺⁽⁺⁾ energy efficiency



7-year warranty



online control

Model	Performance at A7W35	Thermal loss of the object Q _z	Seasonal heating energy efficiency at 35°C low temperature operation		Seasonal heating energy efficiency at 55°C medium temperature operation		Sound pressure level L _s (5 m from the outdoor unit)	Ordering number
	kW		kW	SCOP	Class	SCOP		
BoxAir 22 ISC	2-7	up to 5.5	4.38	A++	3.33	A++	34	1BA22ISC-11
BoxAir 26 ISC	3-9	up to 8.5	4.29	A++	3.24	A++	34	1BA26ISC-11
BoxAir 37 ISC	5-17	up to 13	4.49	A+++	3.51	A++	41	1BA37ISC-11

For installation diagrams, dimensions and detailed technical data for all models, please refer to the Technical Data section.

Optional equipment

7-year warranty on the complete pump

Extended warranty valid from commissioning of the pump. Only in combination with 1OICON.

107Z

MasterTherm Online App

Connecting the pump to the MasterTherm central server allows the pump to be controlled online from anywhere using the app's website. Including remote service access.

1OICON

Reverse cooling mode

Reverse operation of the pump allowing for long-term cooling of the interior in the summer.

10CH

Room unit for auxiliary heating circuit

Terminal with temperature sensor for placement in reference rooms of other heating circuits (only for PLUS control).

10PAD

Room unit for auxiliary heating circuit with humidity sensor

Includes humidity sensor for elimination of air humidity condensation during cooling (only for PLUS control).

10PADH

PLUS control expansion module

Increases the number of regulated auxiliary heating circuits up to 6 (from the basic 2).

10EK

Integrated electric meter 3x 65 A

Integrated 3-phase electric meter for local measurement of electricity consumption. LCD panel, MID certification, data transfer to the heat pump controller.

1OEM65AMID

Colour according to RAL

Individual colour for the pump panels.

1OCO

Bracket for hanging the outdoor unit on the wall

Suitable for more confined space conditions.

Technical data

Air-to-water



Czech product



A tradition since 1994



Exported into 30 countries worldwide



7-year warranty



Online control

BoxAir Inverter



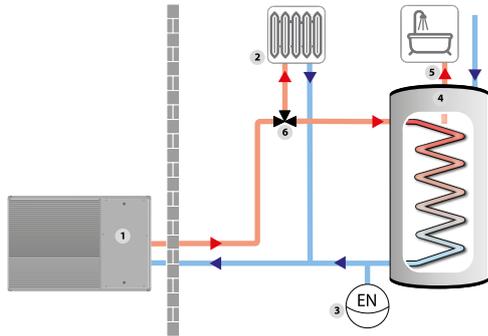
			BoxAir 22 I	BoxAir 26 I	BoxAir 30 I	BoxAir 37 I	BoxAir 45 I
Power range at A7W35		kW	2-7	3-9	5-12	5-17	7-22
Thermal loss of the object Q_z		kW	up to 5.5	up to 8.5	up to 10	up to 13	up to 16
Power A7W35 ¹	60 rps	kW	4.9	8.1	8.65	11.5	15.3
	COP		4.7	4.8	5.2	4.7	4.7
Power A2W35	60 rps	kW	3.6	5.8	6.25	8.8	10.6
	COP		3.5	3.5	3.8	3.7	3.5
Power A-7W35	80 rps	kW	3.6	5.5	6.0	8.7	11.1
	COP		2.8	2.8	2.9	2.8	2.75
Power A-15W35	90 rps	kW	3.2	5.1	5.3	8.2	9.8
	COP		2.6	2.5	2.4	2.3	2.2
Seasonal heating energy efficiency at 35 °C low temperature operation	Power ³	kW	5	7	8	11	13
	SCOP		4.38	4.29	4.75	4.49	4.46
	η_s	%	172	168	187	177	176
	Class		A++	A++	A+++	A+++	A+++
Seasonal heating energy efficiency at 55 °C medium temperature operation	Power ³	kW	4	6	7	10	12
	SCOP		3.33	3.24	3.61	3.51	3.48
	η_s	%	130	126	141	137	136
	Class		A++	A++	A++	A++	A++
Refrigerant			R410A	R410A	R410A	R410A	R410A
Electric circuit breaker ²	3-phase		16 A"B"	20 A"B"	25 A"B"	25 A"B"	32 A"B"
	1-phase		20 A"B"	20 A"B"	25 A"B"	25 A"B"	32 A"B"
Compressor, supply voltage	3-phase		1x 230 V~	1x 230 V~	1x 230 V~	3x 400 V~	3x 400 V~
	1-phase		1x 230 V~				
Weight		kg	115	120	155	165	165
Mandatory leakage checks according to EP 517/2014			no	no	no	no	no
Maximum heating water temperature		°C	60	60	60	60	60
Heating capacity of integrated electric boiler	bivalence mode	kW	4.5	4.5	6	7.5	7.5
	backup mode(and at temperatures below -20 °C)	kW	4.5 + 4.5	4.5 + 4.5	6 + 6	7.5 + 7.5	7.5 + 7.5
Acoustic performance L_w		dB(A)	58	58	58	62	62
Sound pressure level L_p at a distance from the outdoor unit	1 m	dB(A)	49	49	49	53	53
	5 m	dB(A)	37	37	37	41	41
	10 m	dB(A)	31	31	31	35	35
Order number (according to heating circuit control)	STANDARD Regulation		1BA22I-01	1BA26I-01	1BA30I-01	1BA37I-01	1BA45I-01
	PLUS regulation		1BA22I-11	1BA26I-11	1BA30I-11	1BA37I-11	1BA45I-11

Heating circuit control	Designed for	Main heating circuit	Auxiliary heating circuit	Space temperature	Hot Water	Optional
STANDARD Regulation (μ PC)	single circuit heating system	yes	-	in 1 zone	yes	-
PLUS Regulation (p CO5)	multi-circuit heating system	yes	independently 2 incl. mixing	in 2 zones	yes	up to 6 heating circuits

1 Performance data according to EN 14 511, in accordance with EHPA requirements for the award of the Q quality mark. A7W35 60 Hz - air 7 °C, water 35 °C, compressor frequency 60 Hz.

2 Recommended value of electrical protection 3x 400 V, incl. auxiliary integrated electric boiler. The 22 I, 26 I and 30 I units can also be connected to a mains supply of 1x 230 V with a fuse of 40 A "B" (22 I) or 50 A "B" (26 I, 30 I).

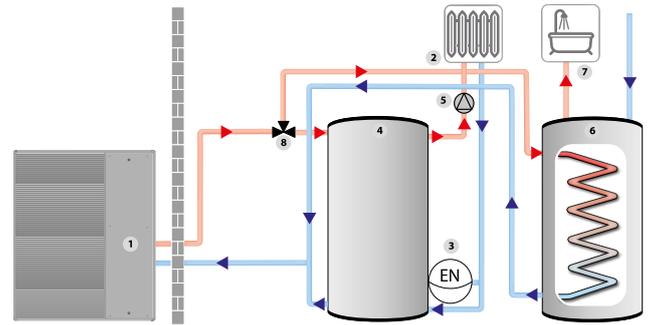
3 Design output at an outdoor temperature of -10 °C according to EN 14 825.



DIRECT CONNECTION OF HEAT PUMP TO HEATING SYSTEM AND HW (HEATING-WATER) TRANSFER MODE

- 1 heat pump
- 2 heating system
- 3 expansion tank
- 4 HW indirect heating storage tank
- 5 HW outlet
- 6 3-way valve

The heat pump (1) is directly connected to the heating system. The heating water temperature varies depending on the outside temperature. When HW heating is required, the heating is interrupted, and the 3-way valve (6) is switched on. By increasing the heating water outlet temperature from the heat pump, the HW storage tank (4) is heated. After the heating of water is finished, the system returns to area heating mode. The scheme is particularly suitable for underfloor heating, exceptional also for systems with a sufficiently sizeable volume of heating water. The possibility for local control of the heating system (control of the heating water flow through the heating system) is limited.

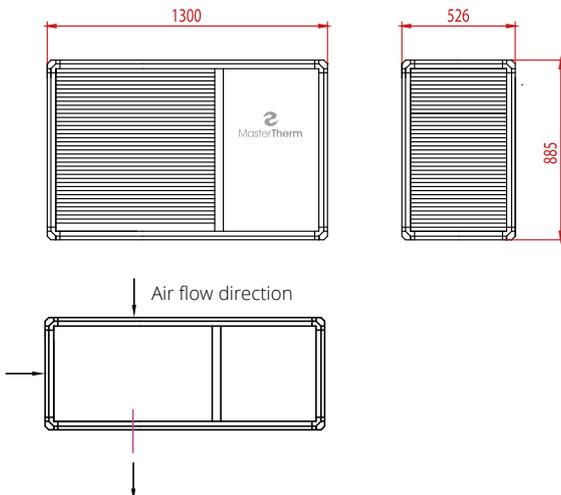


CONNECTION WITH HEATING WATER ACCUMULATION TANK AND HW HEATING TRANSFER MODE

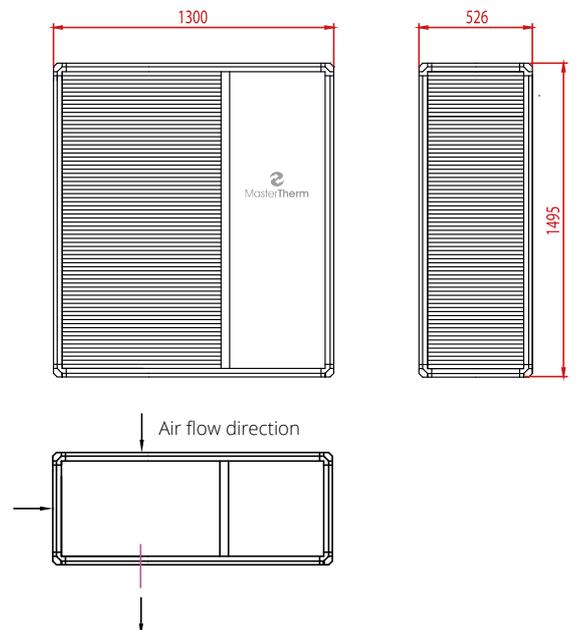
- 1 heat pump
- 2 heating system
- 3 expansion tank
- 4 storage tank
- 5 heating system PC
- 6 HW indirect heating storage tank
- 7 HW outlet
- 8 3-way valve

The heat pump (1) is connected to the heating system via the storage tank (4), which acts as both heat storage and thermohydraulic distributor. The temperature of the heating water varies depending on the outside temperature. The flow of heating water through the heating system is provided by a circulating pump (5). When HW heating is required, area heating is interrupted, and the 3-way valve (8) is switched on. By increasing the outlet temperature of the heating line from the heat pump, the HW storage tank is heated (6). After HW heating is finished, the system returns to area heating mode.

DIMENSIONS OF MODELS BA 22 I AND BA 26 I



DIMENSIONS OF MODELS BA 30 I TO BA 45 I



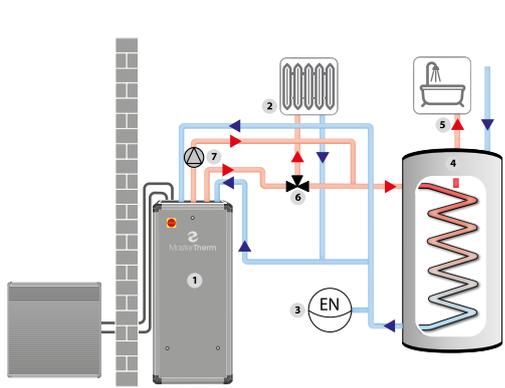
BoxAir Inverter Split



			BoxAir 22 IS	BoxAir 26 IS	BoxAir 37 IS	BoxAir 45 IS
Power range at A7W35		kW	2-7	3-9	5-17	7-22
Thermal loss of the object Q_z		kW	up to 5.5	up to 8.5	up to 13	up to 16
Power A7W35 ¹	60 rps	kW	4.9	8.1	11.5	15.3
	COP		4.7	4.6	4.7	4.7
Power A2W35	60 rps	kW	3.6	5.6	8.8	10.6
	COP		3.5	3.5	3.7	3.5
Power A-7W35	80 rps	kW	3.6	5.5	8.7	11.1
	COP		2.8	2.8	2.8	2.75
Power A-15W35	90 rps	kW	3.2	5.1	8.2	9.8
	COP		2.6	2.4	2.3	2.2
Seasonal heating energy efficiency at 35 °C low temperature operation	Power ³	kW	5	7	11	13
	SCOP		4.38	4.29	4.49	4.46
	η_s	%	172	168	177	176
	Class		A++	A++	A+++	A+++
Seasonal heating energy efficiency at 55 °C medium temperature operation	Power ³	kW	4	6	10	12
	SCOP		3.33	3.24	3.51	3.48
	η_s	%	130	126	137	136
	Class		A++	A++	A++	A++
Refrigerant			R410A	R410A	R410A	R410A
Electric circuit breaker ²	3-phase		16 A"B"	20 A"B"	25 A"B"	32 A"B"
	1-phase		20 A"B"	20 A"B"	n/a	n/a
Compressor, supply voltage	3-phase		1x 230 V~	1x 230 V~	3x 400 V~	3x 400 V~
	1-phase		1x 230 V~	1x 230 V~	n/a	n/a
Weight		kg	160	165	165	170
Mandatory leakage checks according to EP 517/2014			no	no	no	no
Maximum heating water temperature		°C	60	60	60	60
Heating capacity of integrated electric boiler	bivalence mode	kW	4.5	4.5	7.5	7.5
	backup mode(and at temperatures below -20 °C)	kW	4.5 + 4.5	4.5 + 4.5	7.5 + 7.5	7.5 + 7.5
Acoustic performance L_w		dB(A)	55	55	62	62
Sound pressure level L_p at a distance from the outdoor unit	1 m	dB(A)	46	46	53	53
	5 m	dB(A)	34	34	41	41
	10 m	dB(A)	28	28	35	35
Order number (according to heating circuit control)	PLUS regulation		1BA22IS-11	1BA26IS-11	1BA37IS-11	1BA45IS-11

Heating circuit control	Designed for	Main heating circuit	Auxiliary heating circuit	Space temperature	Hot Water	Optional
PLUS Regulation (pCO5)	multi-circuit heating system	yes	independently 2 incl. mixing	in 2 zones	yes	up to 6 heating circuits

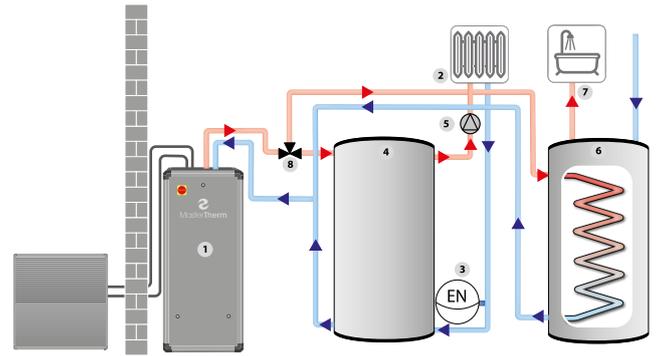
1 Performance data according to EN 14 511, in accordance with EHPA requirements for the award of the Q quality mark. A7W35 60 Hz - air 7 °C, water 35 °C, compressor frequency 60 Hz.
 2 Recommended value of electrical protection 3x 400 V, incl. auxiliary integrated electric boiler. The 22 I, 26 I and 30 I units can also be connected to a mains supply of 1x 230 V with a fuse of 40 A "B" (22 I) or 50 A "B" (26 I, 30 I).
 3 Design output at an outdoor temperature of -10 °C according to EN 14 825.



DIRECT CONNECTION OF HEAT PUMP TO HEATING SYSTEM AND DHW SWITCH-HEATING MODE

- 1 heat pump
- 2 heating system
- 3 expansion tank
- 4 indirect HW heating storage tank
- 5 HW outlet
- 6 3-way valve
- 7 desuperheater

The heat pump (1) is directly connected to the heating system. The temperature of the heating water varies depending on the outside temperature. When HW heating is required, area heating is interrupted and the 3-way valve (6) is switched on. By increasing the outlet temperature of the heating water from the heat pump, the HW storage tank (4) is heated. When HW heating is finished, the system returns to area heating mode. The desuperheater (optional) is a special heat exchanger that extracts high temperature energy from the compressor and transfers it with high efficiency to the HW tank. With this wiring scheme, the possibility of additional heating system control by reducing the heating water flow (zone valves, thermostatic valves) is limited. A heat pump control can be used for precise control of the interior temperature.

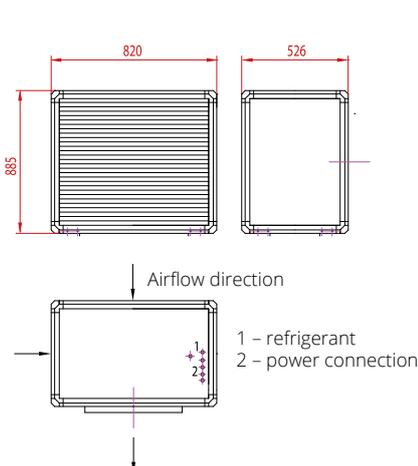


CONNECTION WITH HEATING WATER ACCUMULATION TANK AND HW HEATING TRANSFER MODE

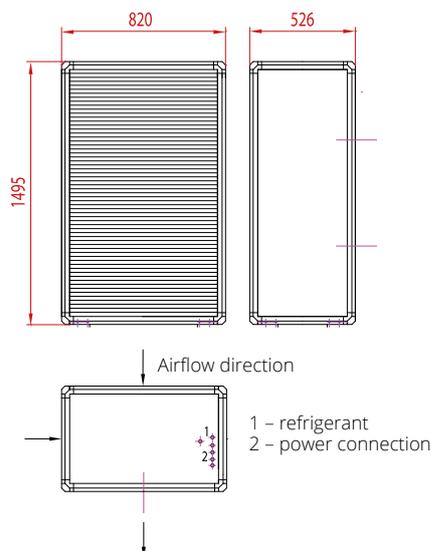
- 1 heat pump
- 2 heating system
- 3 expansion tank
- 4 accumulation tank
- 5 heating system
- 6 indirect heating of HW accumulation tank
- 7 HW outlet
- 8 3-way valve

The heat pump (1) is connected to the heating system via the accumulation tank (4), which acts as both heat storage and thermohydraulic distributor. The temperature of the heating water varies depending on the outside temperature. The flow of heating water through the heating system is provided by a circulating pump (5). When HW heating is required, area heating is interrupted, and the 3-way valve (8) is switched on. By increasing the heating outlet temperature of the heat pump, the HW storage tank (6) is heated. After the heating has stopped, the returns to area heating mode. This system is suitable in buildings with a minimal capacity for a heating system and where local heating control is used to limit the flow of heating water. The system also allows the heat pump to be combined with other heat sources (e.g. a fireplace insert).

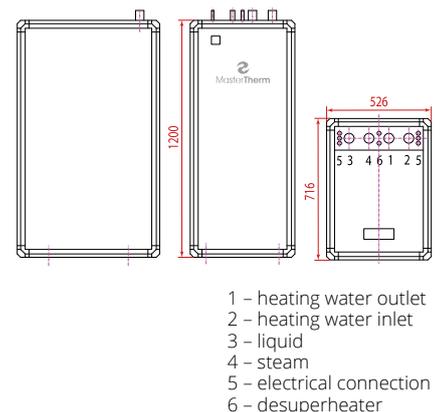
DIMENSIONS OF THE BA 22 IS AND BA 26 IS HEATING UNIT MODELS



DIMENSIONS OF THE BA 37 IS AND BA 45 IS HEATING UNIT MODELS



INHEATING UNIT



BoxAir Inverter Split Combi

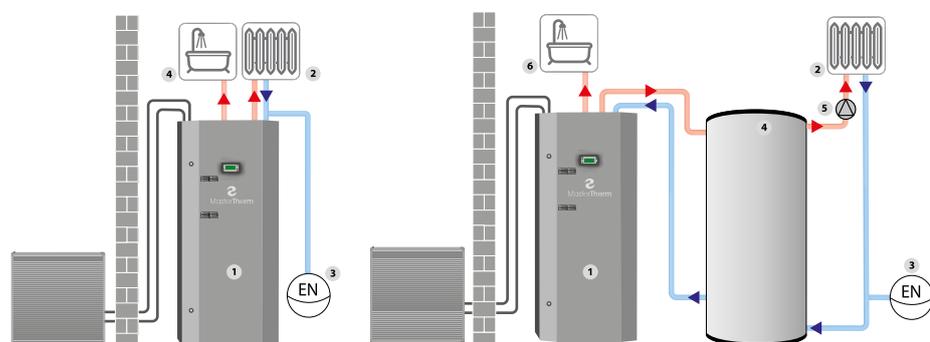


Power range at A7W35	
Thermal loss of the object Q_p	
Power A7W35 ¹	60 rps
	COP
Seasonal heating energy efficiency at 35 °C low temperature operation	Power ³
	SCOP
	η_s
	Class
Seasonal heating energy efficiency at 55 °C medium temperature operation	Power ³
	SCOP
	η_s
	Class
Refrigerant	
Electric circuit breaker ²	3-phase
	1-phase
Compressor, supply voltage	3-phase
	1-phase
Weight	
Maximum heating water temperature	
Heating capacity of integrated electric boiler	bivalence mode
	backup mode (and at temperatures below -20 °C)
Acoustic performance L_w	
Sound pressure level L_p at a distance from the outdoor unit	1 m
	5 m
	10 m
Order number (according to heating circuit control)	PLUS regulation

	BoxAir 22 ISC	BoxAir 26 ISC	BoxAir 37 ISC
	2-7	3-9	5-17
kW	up to 5.5	up to 8.5	up to 13
kW	4.9	8.1	11.5
kW	4.7	4.6	4.7
kW	5	7	11
kW	4.38	4.29	4.49
%	172	168	177
%	A++	A++	A+++
kW	4	6	10
kW	3.33	3.24	3.51
%	130	126	137
%	A++	A++	A+++
	R410A	R410A	R410A
	16 A"B"	20 A"B"	25 A"B"
	20 A"B"	20 A"B"	n/a
	1x 230 V~	1x 230 V~	3x 400 V~
	1x 230 V~	1x 230 V~	n/a
kg	260	265	275
°C	60	60	60
kW	4.5	6	6
kW	4.5	6	6
dB(A)	55	55	62
dB(A)	46	46	53
dB(A)	34	34	41
dB(A)	28	28	35
	1BA22ISC-11	1BA26ISC-11	1BA37ISC-11

Heating circuit control	Designed for	Main heating circuit	Auxiliary heating circuit	Space temperature	Hot Water	Optional
PLUS Regulation (pCO5)	multi-circuit heating system	yes	independently 2 incl. mixing	in 2 zones	yes	up to 6 heating circuits

- 1 Performance data according to EN 14 511, in accordance with EHPA requirements for the award of the Q quality mark. A7W35 60 Hz - air 7 °C, water 35 °C, compressor frequency 60 Hz.
- 2 Recommended value of electrical protection 3x 400 V, incl. auxiliary integrated electric boiler. The 22 l, 26 l and 30 l units can also be connected to a mains supply of 1x 230 V with a fuse of 40 A "B" (22 l) or 50 A "B" (26 l, 30 l).
- 3 Design output at an outdoor temperature of -10 °C according to EN 14 825.



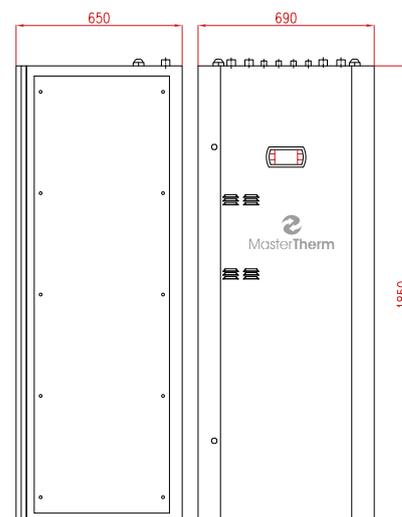
DIRECT HEATING PUMP CONNECTION INTO HEATING SYSTEM

- 1 heat pump
- 2 heating system
- 3 expansion tank
- 4 HW outlet

CONNECTION WITH HEATING WATER STORAGE TANK

- 1 heat pump
- 2 heating system
- 3 expansion tank
- 4 HW outlet
- 5 storage tank
- 6 heating system

DIMENSIONS OF THE INDOOR UNIT



Dimensions of outdoor unit same as BoxAir Inverter Split

AquaMaster

Ground-to-water



Czech product



A tradition since 1994



Exported into 30 countries worldwide



7-year warranty



Online control

AquaMaster

The best-selling MasterTherm heat pump range in Western Europe.*

By harnessing energy directly from the ground, the AquaMaster range offers the best year-round efficiency, exceptional reliability and durability.

Suitable for heating and cooling all types of buildings: from passive houses with minimal energy loss to conventional family homes and large buildings, including industrial applications (with the possibility of connection to a cascade of pumps).

* 70% of MasterTherm's production is exported abroad, especially to Great Britain, Ireland, the Netherlands, Belgium, Italy, Switzerland, Estonia and Slovakia.



AquaMaster
With ON/OFF
compressor.



**AquaMaster
Inverter**
With frequency-
controlled compressor.



**AquaMaster
Inverter Combi**
Inverter with integrated
SHW tank.



KEY FEATURES

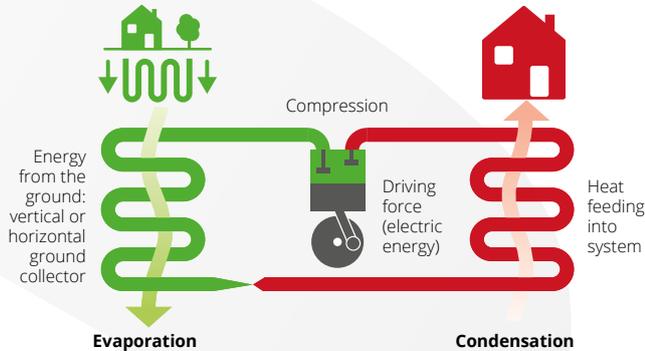
- Power from 1 to 48 kW
- Energy efficiency A+++
- Adaptation to water-to-water at no extra cost
- Independent of outside temperature or weather
- Integrated control system for up to 6 heating circuits
- Online control and monitoring
- Warranty and after-warranty service directly from the manufacturer
- Reversible cooling mode and passive cooling

European certification mark
The Heat Pump KEYMARK





GROUND-TO-WATER HEAT PUMPS



HOW THEY WORK

Ground-to-water heat pumps extract energy from the ground by means of a vertical or horizontal collector**. Antifreeze circulates through the collector and removes ground heat. Thanks to the constant temperature of the ground, the heat pump has a stable source of energy throughout the year. The heat extracted from the ground is then transferred to the building. **The system achieves a seasonal efficiency up to 5.5 times higher than that of a conventional electric boiler.**



MAIN ADVANTAGES

The ground-to-water system offers **stable heating performance throughout the year** and generally higher efficiency than air-to-water systems. The ground collector with a predicted lifetime of up to 100 years is an enduring investment in your building(s) and/or land(s).



HEATS IN WINTER, COOLS IN SUMMER

They are suitable not only for heating and year-round heating of hot water or swimming pools but also for highly efficient cooling of the building in summer thanks to the option of reverse or passive cooling.



HEAT PUMPS AND SUBSIDIES

Heat pumps are recognised as **a renewable energy source**. Ask your local distributor if it is possible to obtain subsidies for them.

**The depth of the vertical collector must be approximately 15-20 meters per 1 kW of building's heat loss. Land area for the horizontal collector is approximately 35-40 m² per 1 kW of a building's heat loss.

MASTERTHERM: A CZECH MANUFACTURING TRADITION SINCE 1994

MasterTherm is a manufacturer of air-to-water, ground-to-water and water-to-water heat pumps for family and apartment houses and industrial buildings. All technical development and production of MasterTherm heat pumps is carried out in the Czech Republic, EU.



More than two-thirds of MasterTherm's production is exported abroad, especially to Western Europe. For example, MasterTherm produced 170 AquaMaster Inverter heat pumps for a developer project in Cardiff, UK, where the pumps are connected to a system of 79 shared ground wells. MasterTherm also carries out special projects such as heat recovery systems at the IT4Innovations supercomputer centre, the cooling and recovery of waste heat from particle accelerators at the Institute of Nuclear Physics of the Czech Academy of Sciences.



AquaMaster

With an ON/OFF compressor

Silent and efficient ground-to-water heat pump. Convenient purchase price thanks to its ON/OFF compressor, extreme reliability.

ON/OFF compressor

Due to the constant temperature of the source (ground or water), the AquaMaster heat pump achieves high efficiency values even with an ON/OFF compressor, i.e., without continuous power regulation.

Colour on request

Grey RAL 9006 is standard.



Electronically controlled expansion valve

Top-notch technology increases the pump's operating efficiency through precise control of the cooling circuit.

Built-in electronic circulators

The Primary i.e., source leading from ground or water) and the secondary (i.e., heating) circuit is driven by an electronic circulation pump.

A⁺⁺⁺ energy efficiency



7-year warranty



online control

Unique MasterTherm software for pump control

- Custom application for controlling the cooling circuit and peripherals- Equithermal MaR (measurement and regulation)
- Advanced **temperature feedback control in the building** based on internal room temperature sensors
- Control via touchscreen terminal or **online application**
- Includes **remote service monitoring** and diagnostics
- Control of up to 6 heating circuits ,including the possibility of connecting a swimming pool or solar panel





Model	Performance at BOW35	Thermal loss of the object Q _z	Seasonal energy efficiency of heating at a 35 °C low temperature operation		Seasonal energy efficiency of heating at a 55 °C medium temperature operation		Order number (according to heating circuit control)	
	kW	kW	SCOP	Class	SCOP	Class	Regulation STANDARD (µPC)	Regulation PLUS (pCO5)
 AquaMaster 22 Z	7.8	up to 8	4.50	A++	3.17	A+	1AQ22Z-0	1AQ22Z-1
AquaMaster 26 Z	10.1	up to 10	4.34	A++	3.11	A+	1AQ26Z-0	1AQ26Z-1
AquaMaster 30 Z	11.4	up to 11	4.29	A++	3.10	A+	1AQ30Z-0	1AQ30Z-1
AquaMaster 37 Z	14.1	up to 14	4.46	A++	3.16	A+	1AQ37Z-0	1AQ37Z-1
AquaMaster 45 Z	17.2	up to 17	4.61	A++	3.19	A+	1AQ45Z-0	1AQ45Z-1
AquaMaster 60 Z	23.1	up to 23	4.27	A++	3.14	A+	-	1AQ60Z-1
AquaMaster 75 Z	28.2	up to 28	4.25	A++	3.11	A+	-	1AQ75Z-1
AquaMaster 90 Z	33.2	up to 33	4.42	A++	3.10	A+	-	1AQ90Z-1

For installation diagrams, dimensions and detailed technical data for all models, please see the Technical Data section.

Optional equipment

7-year warranty on the complete pump **107Z**
Only in combination with 1OICON.

MasterTherm Online App **1OICON**
Online control and remote service access.

Reversing cooling mode (22 Z - 90 Z models) **1AQZR**
Reversing operation allowing the cooling of the building.

Passive cooling module (22 Z - 37 Z) **1OPC**
Exclusive for ground-to-water pumps. Direct heat extraction from the interior of the ground collector or borehole. Extremely economical summer cooling of the building without the need for compressor work. Contributes to collector regeneration after the heating season.

External passive cooling module (45 Z - 90 Z) **1OPCEXT**
Passive cooling for higher capacity models.

Desuperheater for high efficiency hot water heating **1ODESUP**
An integrated device that extracts the heat of superheated vapours at the compressor outlet using a separate hydraulic circuit and increases the efficiency of hot water heating. It operates in both the heating and cooling modes of the building.

Room unit for auxiliary heating circuit **1OPAD**
For reference rooms of other heating circuits (only for PLUS control).

Room unit for auxiliary heating circuit with humidity sensor **1OPADH**
With a humidity sensor to eliminate the condensation of air humidity during cooling (only for PLUS control).

Phase monitor **1OSF**
Protects 3-phase ON/OFF compressors against damage.

Soft start for soft start of compressor
Reduces the starting current during compressor start-up.

Expansion module for PLUS control **1OEK**
Increases the number of auxiliary heating circuits up to 6.

Integrated electric meter 3x 65 A **1OEM65AMID**
For local measurement of energy consumption. MID certification.

Electric boiler 4.5 kW/6.0 kW/7.5 kW **1OEKOT**
Built-in bivalent, or emergency, heat source.

Water-to-water design
Different evaporator and electrical equipment.

RAL colour **1OCO**
Individual colour for the panels of the internal pump unit.

Designed for	single-circuit heating systems	multiple-circuit heating systems
Main heating circuit	yes	yes
Auxiliary heating circuit	-	independently 2 incl. mixing
Space temperature	in 1 zone	in 2 zones
Hot water treatment	yes	yes
Optionally	-	up to 6 heating circuits

BASIC FEATURES

- Ground-to-water heat pump (or water-to-water on request)
- **Independent of weather or outside temperature**
- Located inside the building, connected to a ground collector
- Supports connection to a power cascade without the need for a higher-level MaR system



- Zero external noise
- Indoor unit sound-attenuated to the level of a conventional refrigerator



- Used for heating and cooling the building, including hot water production
- Possibility of active and passive cooling or a combination of both



- Water heating temperatures up to 60 °C
- Integrated backup electric boiler on request



AquaMaster Inverter

With frequency-controlled compressor

A quiet and efficient ground-to-water heat pump. The variable speed compressor (inverter) increases efficiency and savings in heating.

Frequency controlled compressor

The variable speed compressor adapts its output to the immediate heat demand of the building, thereby increasing the efficiency of the pump. The heating system does not require the installation of a storage tank.

Colour on request

Grey RAL 9006 as standard.



Electronically controlled expansion valve

Improves the operational efficiency of the pump by more precisely regulating the operation of the cooling circuit.

Built-in electronic circulator

The primary (i.e., source leading to the ground or water) and secondary (i.e., heating) circuit is driven by an electronic circulator.



A⁺⁺⁽⁺⁾ energy efficiency



7-year warranty



online control

The unique compact model AQ 17 I (height 830 mm, width and depth 530 mm) fits into kitchen cupboards. It is soundproofed so that it does not disturb the living room.

Unique MasterTherm software for pump control

- Custom application for controlling the cooling circuit and peripherals- Equithermal MaR (measurement and regulation)
- Advanced **temperature feedback control in the building** based on internal room temperature sensors
- Control via touchscreen terminal or **online application**
- Includes **remote service monitoring** and diagnostics
- Control of up to 6 heating circuits including the possibility of connecting a swimming pool or solar panel





Model	Performance at BOW35	Thermal loss of the object Q ₂	Seasonal energy efficiency of heating at a 35 °C low temperature operation		Seasonal energy efficiency of heating at a 55 °C medium temperature operation		Order number (according to heating circuit control)	
	kW	kW	SCOP	Class	SCOP	Class	Regulation STANDARD (µPC)	Regulation PLUS (pCO5)
AquaMaster 17 I	1-5	up to 5	4.58	A+++	3.46	A++	1AQ17I-0	-
AquaMaster 22 I	2-7	up to 7	4.72	A+++	3.58	A++	1AQ22I-0	1AQ22I-1
AquaMaster 26 I	3-9	up to 9	4.94	A+++	3.81	A++	1AQ26I-0	1AQ26I-1
AquaMaster 30 I	4-12	up to 12	4.92	A+++	3.82	A++	1AQ30I-0	1AQ30I-1
AquaMaster 37 I	5-15	up to 15	5.10	A+++	3.97	A+++	1AQ37I-0	1AQ37I-1
AquaMaster 45 I	7-22	up to 22	5.10	A+++	3.96	A+++	1AQ45I-0	1AQ45I-1
AquaMaster 60 I	7-35	up to 35	5.06	A+++	3.99	A+++	-	1AQ60I-1
AquaMaster 90 I	10-48	up to 48	4.90	A+++	3.96	A+++	-	1AQ90I-1

For installation diagrams, dimensions and detailed technical data for all models, please see the Technical Data section.

Optional equipment

7-year warranty on the complete pump **107Z**
Only in combination with 1OICON.

MasterTherm Online App **1OICON**
Online control and remote service access.

Reversing cooling mode (22 I - 90 I models) **1AQZR**
Reversing operation allowing the cooling of the building.

Passive cooling module (17 I - 37 I) **10PC**
Exclusive for ground-to-water pumps. Direct heat extraction from the interior of the ground collector or borehole. Extremely economical summer cooling of the building without the need for compressor work. Contributes to collector regeneration after the heating season.

External passive cooling module (45 I - 90 I) **10PCEXT**
Passive cooling for higher capacity models.

Desuperheater for high efficiency hot water heating **1ODESUP**
Integrated device that extracts the heat of superheated vapours at the compressor outlet using a separate hydraulic circuit and increases the efficiency of hot water heating. It operates in both heating and cooling modes for the building.

Room unit for auxiliary heating circuit **1OPAD**
For reference rooms of other heating circuits (only for PLUS control).

Room unit for auxiliary heating circuit with humidity sensor **1OPADH**
With humidity sensor to eliminate the condensation of air humidity during cooling (only for PLUS control).

Expansion module for PLUS control **10EK**
Increases the number of auxiliary heating circuits up to 6.

Integrated electricity meter 1x 25 A **1OEM25AMID**
For local measurement of electricity consumption. MID certification.

Integrated electric meter 3x 65 A **1OEM65AMID**
For local measurement of energy consumption. MID certification.

Electric boiler 4.5 kW/6.0 kW/7.5 kW **10EKOT**
Built-in bivalent, or emergency, heat source.

Water-to-water design
Lower evaporator and different electrical equipment

Colour according to RAL Sampler **10CO**
Individual colour for the panels of the internal pump unit.

Designed for	single-circuit heating systems	multiple-circuit heating systems
Main heating circuit	yes	yes
Auxiliary heating circuit	-	independently 2 incl. mixing
Space temperature	in 1 zone	in 2 zones
Hot water treatment	yes	yes
Optionally	-	up to 6 heating circuits

BASIC FEATURES

- Ground-to-water (or water-to-water) heat pump with frequency-controlled compressor
- **Independent of weather or air temperature**
- Continuous flow control through primary or secondary circuits
- Located in the unit inside the building, connected to a ground borehole or collector
- Support for connection to a power cascade without the need for a third-party MaR system



- Zero external noise
- Indoor unit sound-attenuated to the level of a conventional refrigerator



- Use for heating and cooling of the building, including hot water production
- Possibility of active and passive cooling or a combination of both



- Water heating temperatures up to 64 °C
- Integrated backup electric boiler on request



AquaMaster Inverter Combi

Inverter with integrated SHW tank

BASIC FEATURES

- Ground-to-water heat pump with split design
- Includes integrated hot water tank with a volume of 170 litres to save space in the utility room. (AquaMaster and AquaMaster Inverter models work with an external tank.)



Includes 170l hot water tank

The Combi version differs from the AquaMaster Inverter by means of its integrated hot water tank.

A⁺⁺⁽⁺⁾ energy efficiency



7-year warranty



online control

Model	Performance at BOW35 kW	Thermal loss of the object Q _z kW	Seasonal energy efficiency of heating at a 35 °C low-temperature operation		Seasonal energy efficiency of heating at a 55 °C medium temperature operation		Order number (according to heating circuit control)	
			SCOP	Class	SCOP	Class	STANDARD Regulation	PLUS Regulation
AquaMaster Inverter 17 IC	1–5	up to 5	4.58	A+++	3.46	A++	1AQ17IC-0	1AQ17IC-0
AquaMaster Inverter 22 IC	2–7	up to 7	4.72	A+++	3.58	A++	1AQ22IC-0	1AQ22IC-1
AquaMaster Inverter 26 IC	3–9	up to 9	4.94	A+++	3.81	A++	1AQ26IC-0	1AQ26IC-1
AquaMaster Inverter 30 IC	4–12	up to 12	4.92	A+++	3.82	A++	1AQ30IC-0	1AQ30IC-1
AquaMaster Inverter 37 IC	5–15	up to 15	5.10	A+++	3.97	A+++	1AQ37IC-0	1AQ37IC-1

For installation diagrams, dimensions and detailed technical data for all models, please see the Technical Data section.

Optional equipment

7 years warranty on complete pump

Extended warranty from the date of delivery. Only in combination with 1OICON.

107Z

Room unit for the heating circuit **10PAD**

Terminal with temperature sensor for placing additional heating circuits in the reference rooms (only for PLUS control).

Integrated electricity meter 3x 65 A

Integrated 3-phase electricity meter with identical functionality.

1OEM65AMID

MasterTherm Online App

Connect the pump to a central server. MasterTherm allows you to control the pump online from anywhere using the web or app. Includes remote service access.

1OICON

Room unit for auxiliary heating circuit with humidity sensor **10PADH**

Includes humidity sensor for elimination of air humidity condensation during cooling (only for PLUS control).

Electric boiler 4.5 kW/6.0 kW/7.5 kW

Integrated bivalent (supplementary) or emergency heat source.

10EKOT

Passive cooling module

Exclusively for ground-to-water pumps. Direct heat extraction from the interior of the ground collector or borehole. Extremely economical summer cooling without compressor work. Contributes to the regeneration of the collector after the heating season.

10PC

Expansion module for PLUS control **10EK**

Increases the number of regulated auxiliary heating circuits up to 6 (from the basic 2).

Integrated electricity meter 1 x 25A

Integrated 1-phase electricity meter for local measurement of electricity consumption. MID certification.

1OEM25AMID

Water-to-water design

Adaptation for use on bottom or surface water. Evaporator more resistant to sediment (coax) and different electrical equipment.

Colour according to RAL Sampler **10CO**

Individual colour for the panels of the pump indoor unit. RAL 9006 grey at no extra charge.

Technical data

Ground-to-Water



Czech product



A tradition since 1994



Exported into 30 countries worldwide



7-year warranty



Online control

AquaMaster



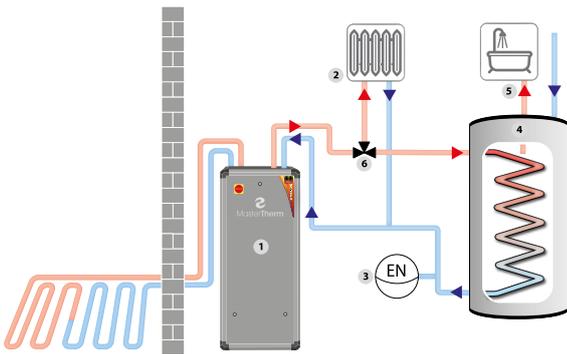
		Aqua-Master 22 Z	Aqua-Master 26 Z	Aqua-Master 30 Z	Aqua-Master 37 Z	Aqua-Master 45 Z	Aqua-Master 60 Z	Aqua-Master 75 Z	Aqua-Master 90 Z
Power range at B0W35 ¹	kW	7.8	10.1	11.4	14.1	17.2	23.1	28.2	33.2
	COP	4.5	4.4	4.4	4.3	4.4	4.2	4.1	4.3
Thermal loss of the object Q ₂	kW	up to 8	up to 10	up to 11	up to 14	up to 17	up to 23	up to 28	up to 33
Power W10W35	kW	10.4	13.3	14.9	18.4	22.5	31.2	37.7	45.0
	COP	539	5.7	5.5	5.4	5.5	5.4	5.2	5.4
Seasonal heating energy efficiency at 35 °C low-temperature operation	Power ³	8	10	11	14	17	23	28	33
	SCOP	4.50	4.34	4.29	4.46	4.61	4.27	4.25	4.42
	η _s	172	166	164	170	176	163	162	169
	Class	A++							
Seasonal heating energy efficiency at 55 °C mid-temperature operation	Power ³	7	9	11	13	16	22	26	30
	SCOP	3.17	3.11	3.10	3.16	3.19	3.14	3.11	3.10
	η _s	117	116	116	118	120	118	116	116
	Class	A+							
Approximate required length of the ground well (or the sum of the lengths of several wells)	m	120	150	165	210	255	345	420	495
Refrigerant		R410A	R407C						
Electric circuit breaker ²	3-phase	3x 9 A"C"	3x 13 A"C"	3x 13 A"C"	3x 16 A"C"	3x 16 A"C"	3x 25 A"C"	3x 25 A"C"	3x 32 A"C"
	1-phase	20 A"C"	25 A"C"	32 A"C"	32 A"C"	n/a	n/a	n/a	n/a
Compressor, supply voltage	3-phase	3x 400 V~							
	1-phase	1x 230 V~	1x 230 V~	1x 230 V~	1x 230 V~	n/a	n/a	n/a	n/a
Weight	kg	140	160	165	180	190	245	255	275
Mandatory leakage checks according to EP 517/2014		no							
Maximum heating water temperature	°C	60	60	60	60	60	60	60	60
Heating capacity of integrated electric boiler (equipment upon request)	kW	4.5–7.5	4.5–7.5	4.5–7.5	4.5–7.5	4.5–7.5	4.5–7.5	4.5–7.5	4.5–7.5
Acoustic performance L _w	dB(A)	48	48	48	49	49	51	51	51
Order number (according to heating circuit control)	STANDARD Regulation	1AQ22Z-0	1AQ26Z-0	1AQ30Z-0	1AQ37Z-0	1AQ45Z-0	-	-	-
	PLUS regulation	1AQ22Z-1	1AQ26Z-1	1AQ30Z-1	1AQ37Z-1	1AQ45Z-1	1AQ60Z-1	1AQ75Z-1	1AQ90Z-1

Heating circuit control	Designed for	Main heating circuit	Auxiliary heating circuit	Space temperature	Hot Water	Optional
STANDARD Regulation (μPC)	single circuit heating system	yes	-	in 1 zone	yes	-
PLUS Regulation (pCO5)	multi-circuit heating system	yes	independently 2 incl. mixing	in 2 zones	yes	up to 6 heating circuits

1 Performance data according to EN 14 511, in accordance with EHPA requirements for the award of the Q quality mark. A7W35 60 Hz - air 7 °C, water 35 °C, compressor frequency 60 Hz.

2 Recommended value of electrical protection 3x 400 V, incl. auxiliary integrated electric boiler. The 22 l, 26 l and 30 l units can also be connected to a mains supply of 1x 230 V with a fuse of 40 A "B" (22 l) or 50 A "B" (26 l, 30 l).

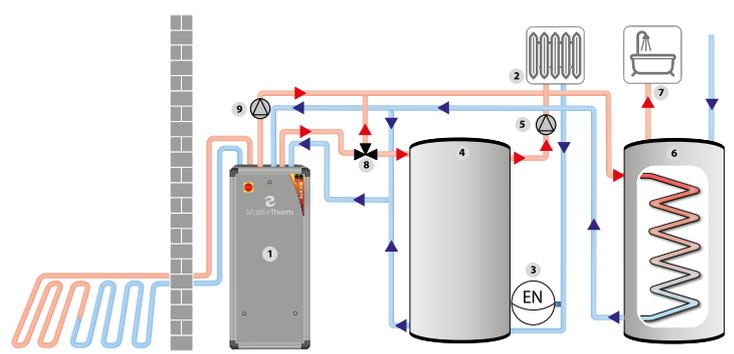
3 Design output at an outdoor temperature of -10 °C according to EN 14 825.



DIRECT CONNECTION OF HEAT PUMP TO HEATING SYSTEM AND HW HEATING TRANSFER MODE

- 1 heat pump
- 2 heating system
- 3 expansion tank
- 4 indirect heating HW storage tank
- 5 HW outlet
- 6 3-way valve

The heat pump (1) is directly connected to the heating system. The heating water temperature varies depending on the outside temperature. The heating is interrupted, and the 3-way valve (6) is switched on when HW heating is required. By increasing the heating water outlet temperature from the heat pump, the HW storage tank (4) is heated. After heating is finished, the system returns to area heating mode. The scheme is particularly suitable for underfloor heating, exceptional also for systems with a sufficiently sizeable volume of heating water. The possibility of local control of the heating system (control of the heating water flow through the heating system) is limited.

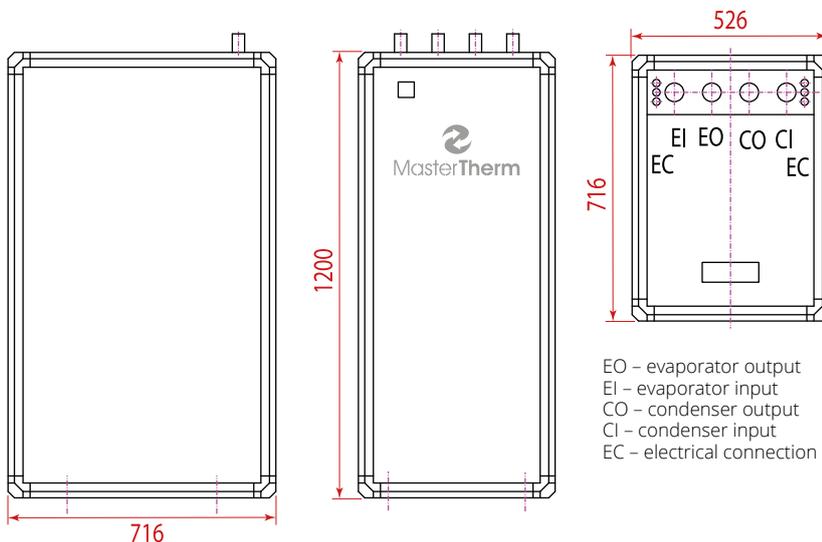


CONNECTION WITH HEATING WATER ACCUMULATION TANK AND HW HEATING TRANSFER MODE

- 1 heat pump
- 2 heating system
- 3 expansion tank
- 4 storage tank
- 5 heating system
- 6 indirect HW heating storage tank
- 7 HW outlet
- 8 3-way valve
- 9 desuperheater

The heat pump (1) is connected to the heating system via the storage tank (4), which acts as both heat storage and thermohydraulic distributor. The temperature of the heating water varies depending on the outside temperature. The flow of heating water through the heating system is provided by a circulating pump (5). When the heating of HW heating is required, the heating is interrupted and the 3-way valve (8) is switched. By increasing the outlet temperature of the heating water from the heat pump, the HW storage tank is heated (6). After the heating is finished, the system returns to area mode. The desuperheater (optional) is a special heat exchanger that extracts high-temperature energy at the output of the running compressor. Using a separate hydraulic circuit (9), this energy is used for highly efficient HW heating.

DIMENSIONS



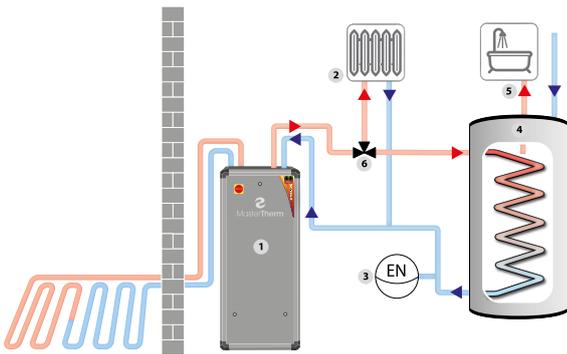
AquaMaster Inverter



			Aqua-Master Inverter 17 l	Aqua-Master Inverter 22 l	Aqua-Master Inverter 26 l	Aqua-Master Inverter 30 l	Aqua-Master Inverter 37 l	Aqua-Master Inverter 45 l	Aqua-Master Inverter 60 l	Aqua-Master Inverter 90 l
Power range at B0W35			1-5	2-7	3-9	4-12	5-15	7-22	7-35	10-48
Power range at B0W35 ¹	60 rps	kW	2.95	4.4	7.6	7.9	10.5	14.0	20.2	31.3 ³
	COP		4.3	4.5	4.5	4.6	4.7	4.6	4.7	4.6
Thermal loss of the object Q _z		kW	up to 5	up to 7	up to 9	up to 12	up to 15	up to 22	up to 35	up to 48
Power W10W35	60 rps	kW	3.79	5.8	10.2	10.3	14.2	19.2	26.6	41.2 ³
	COP		5.51	5.9	6.0	6.1	6.3	6.3	6.2	5.9
Seasonal heating energy efficiency at 35 °C low-temperature operation	Power ⁴	kW	5	7	9	11	15	21	33	44
	SCOP		4.58	4.72	4.94	4.92	5.10	5.10	5.06	4.90
	η _s	%	175	181	190	189	196	196	195	188
	Class		A+++							
Seasonal heating energy efficiency at 55 °C mid-temperature operation	Power ⁴	kW	4	6	8	11	14	19	33	42
	SCOP		3.46	3.58	3.81	3.82	3.97	3.96	3.99	3.96
	η _s	%	130	135	144	145	151	151	151	150
	Class		A++	A++	A++	A++	A+++	A+++	A+++	A+++
Approximate required length of the ground well (or the sum of the lengths of several wells)		m	75	105	135	180	225	330	525	720
Refrigerant			R410A							
Electric circuit breaker ²	3-phase		1x 20 A"B"	1x 20 A"B"	1x 20 A"B"	1x 25 A"B"	3x 20 A"B"	3x 20 A"B"	3x 32 A"B"	3x 32 A"B"
	1-phase		20 A"B"	20 A"B"	20 A"B"	25 A"B"	32 A"B"	32 A"B"	n/a	n/a
Compressor, supply voltage	3-phase		1x 230 V~	1x 230 V~	1x 230 V~	1x 230 V~	3x 400 V~	3x 400 V~	3x 400 V~	3x 400 V~
	1-phase		1x 230 V~	n/a	n/a					
Weight		kg	60	160	160	160	165	170	180	200
Mandatory leakage checks according to EP 517/2014			no							
Maximum heating water temperature		°C	60	60	60	60	60	60	60	60
Heating capacity of integrated electric boiler (equipment upon request)	1-phase connection	kW	-	3-4	3-4	6	-	-	-	-
	3-phase connection	kW	-	4.5-6	4.5-6	4.5-6	7.5	7.5	7.5	7.5
Acoustic performance L _w		dB(A)	49	48	48	48	48	48	55	60
Order number (according to heating circuit control)	STANDARD Regulation		1AQ17I-0	1AQ22I-0	1AQ26I-0	1AQ30I-0	1AQ37I-0	1AQ45I-0	-	-
	PLUS regulation		-	1AQ22I-1	1AQ26I-1	1AQ30I-1	1AQ37I-1	1AQ45I-1	1AQ60I-1	1AQ90I-1

Heating circuit control	Designed for	Main heating circuit	Auxiliary heating circuit	Space temperature	Hot Water	Optional
STANDARD Regulation (μPC)	single circuit heating system	yes	-	in 1 zone	yes	-
PLUS Regulation (pCO5)	multi-circuit heating system	yes	independently 2 incl. mixing	in 2 zones	yes	up to 6 heating circuits

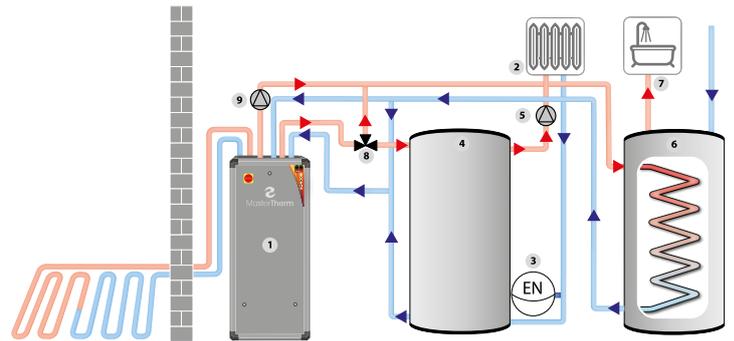
1 Performance data according to EN 14 511, in accordance with EHPA requirements for the award of the Q quality mark. A7W35 60 Hz - air 7 °C, water 35 °C, compressor frequency 60 Hz.
 2 Recommended value of electrical protection 3x 400 V, incl. auxiliary integrated electric boiler. The 22 l, 26 l and 30 l units can also be connected to a mains supply of 1x 230 V with a fuse of 40 A "B" (22 l) or 50 A "B" (26 l, 30 l).
 3 Data for 90 l at 90 Hz.
 4 Design output at an outdoor temperature of -10 °C according to EN 14 825.



DIRECT CONNECTION OF HEAT PUMP TO HEATING SYSTEM AND HW HEATING TRANSFER MODE

- 1 heat pump
- 2 heating system
- 3 expansion tank
- 4 indirect HW heating storage tank
- 5 HW outlet
- 6 3-way valve

The heat pump (1) is directly connected to the heating system. The heating water temperature varies depending on the outside temperature. The heating is interrupted, and the 3-way valve (6) is switched on when HW heating is required. By increasing the heating water outlet temperature from the heat pump, the HW storage tank (4) is heated. After HW heating is finished, the system returns to area heating mode. The scheme is particularly suitable for underfloor heating, exceptional also for systems with a sufficiently sizeable volume of heating water. The possibility for local control of the heating system (control of the heating water flow through the heating system) is limited.

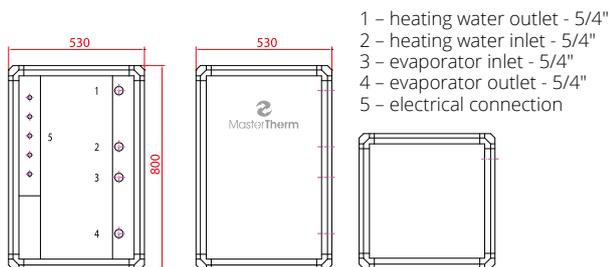


CONNECTION WITH HEATING WATER ACCUMULATION TANK AND HW HEATING TRANSFER MODE

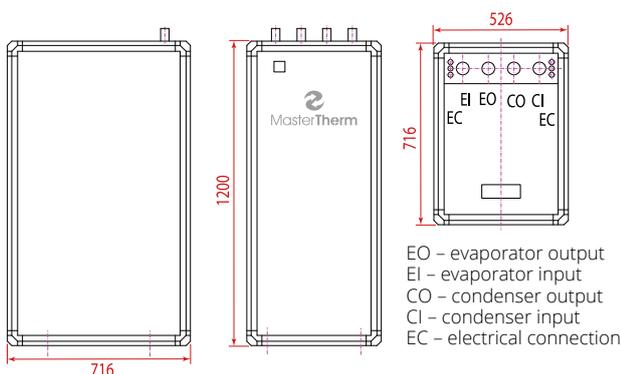
- 1 heat pump
- 2 heating system
- 3 expansion tank
- 4 storage tank
- 5 heating system
- 6 indirect heating HW storage tank
- 7 HW outlet
- 8 3-way valve
- 9 desuperheater

The heat pump (1) is connected to the heating system via the storage tank (4), which acts as both heat storage and thermohydraulic distributor. The temperature of the heating water varies depending on the outside temperature. The flow of heating water through the heating system is provided by a circulating pump (5). When HW heating HW is required, the heating is interrupted, and the 3-way valve (8) is switched on. By increasing the outlet temperature of the heating water from the heat pump, the HW storage tank is heated (6). After the heating is finished, the system returns to area heating mode. The desuperheater (optional) is a special heat exchanger that extracts high-temperature energy at the output of the running compressor. Using a separate hydraulic circuit (9), this energy is used for highly efficient HW heating.

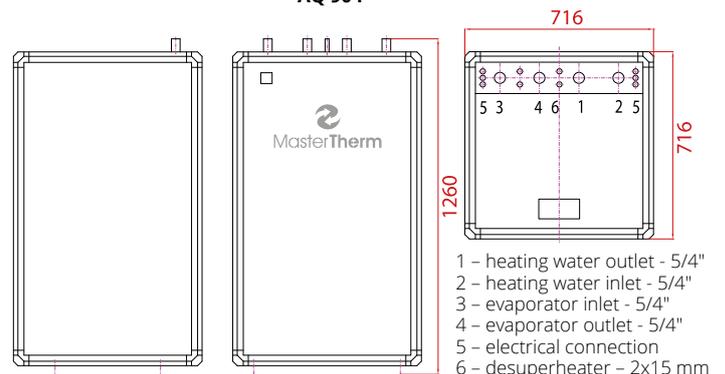
DIMENSIONS AQ 17 I



AQ 22 I to AQ 60 I



AQ 90 I



AquaMaster Inverter Combi

Power range at B0W35	
Power range at B0W35 ¹	60 rps
	COP
Thermal loss of the object Q _g	
Power W10W35	
	COP
Seasonal heating energy efficiency at 35 °C low-temperature operation	Power ³
	SCOP
	η _s
	Class
Seasonal heating energy efficiency at 55 °C mid-temperature operation	Power ³
	SCOP
	η _s
	Class
Refrigerant	
Electric circuit breaker ²	3-phase
	1-phase
Compressor, supply voltage	3-phase
	1-phase
Weight	
Maximum heating water temperature	
Heating capacity of integrated electric boiler (equipment upon request)	1-phase connection
	3-phase connection
Akustický výkon L _w	
Order number (according to heating circuit control)	STANDARD Regulation
	PLUS regulation

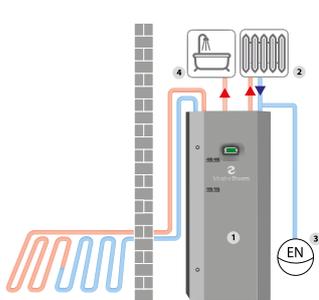
	AquaMaster Inverter 17 IC	AquaMaster Inverter 22 IC	AquaMaster Inverter 26 IC	AquaMaster Inverter 30 IC	AquaMaster Inverter 37 IC
	1-5	2-7	3-9	4-12	5-15
kW	2.95	4.4	7.6	7.9	10.5
	4.3	4.5	4.5	4.6	4.7
kW	up to 5	up to 7	up to 9	up to 12	up to 15
kW	3.79	5.8	10.2	10.3	14.2
	5.51	5.9	6.0	6.1	6.3
kW	5	7	9	11	15
	4.58	4.72	4.94	4.92	5.10
%	175	181	190	189	196
	A+++	A+++	A+++	A+++	A+++
kW	4	6	8	11	14
	3.46	3.58	3.81	3.82	3.97
%	130	135	144	145	151
	A++	A++	A++	A++	A+++
	R410A	R410A	R410A	R410A	R410A
	1x 20 A"B"	1x 20 A"B"	1x 20 A"B"	1x 25 A"B"	3x 20 A"B"
	20 A"B"	20 A"B"	20 A"B"	20 A"B"	25 A"B"
	1x 230 V~				
	1x 230 V~				
kg	270	270	270	275	280
°C	60	60	60	60	60
kW	3-4	3-4	3-4	3-4	-
kW	4.5-6	4.5-6	4.5-6	4.5-6	4.5-6
dB(A)	48	48	48	48	48
	1AQ17IC-0	1AQ22IC-0	1AQ26IC-0	1AQ30IC-0	1AQ37IC-0
	1AQ17IC-1	1AQ22IC-1	1AQ26IC-1	1AQ30IC-1	1AQ37IC-1

Heating circuit control	Designed for	Main heating circuit	Auxiliary heating circuit	Space temperature	Hot Water	Optional
STANDARD Regulation (μPC)	single circuit heating system	yes	-	in 1 zone	yes	-
PLUS Regulation (pCO5)	multi-circuit heating system	yes	independently 2 incl. mixing	in 2 zones	yes	up to 6 heating circuits

1 Performance data according to EN 14 511, in accordance with EHPA requirements for the award of the Q quality mark. A7W35 60 Hz - air 7 °C, water 35 °C, compressor frequency 60 Hz.

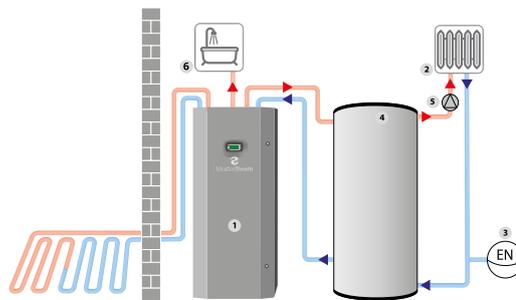
2 Recommended value of electrical protection 3x 400 V, incl. auxiliary integrated electric boiler. The 22 I, 26 I and 30 I units can also be connected to a mains supply of 1x 230 V with a fuse of 40 A "B" (22 I) or 50 A "B" (26 I, 30 I).

3 Design output at an outdoor temperature of -10 °C according to EN 14 825.



DIRECT HEATING PUMP CONNECTION TO HEATING SYSTEM

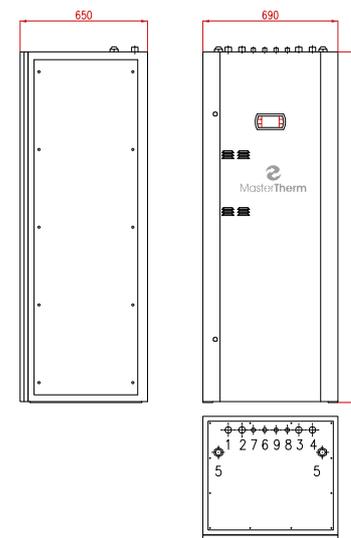
- 1 heat pump
- 2 heating system
- 3 expansion tank
- 4 HW outlet



HEATING WATER ACCUMULATION CONNECTION

- 1 heat pump
- 2 heating system
- 3 expansion tank
- 4 accumulation tank
- 5 heating system outlet
- 6 HW outlet

DIMENSIONS



For large-scale and industrial facilities

Air-to-water / ground-to-water /
water-to-water



Czech
product



A tradition
since 1994



Exported into
30 countries
worldwide



7-year
warranty



Online
control

For large-scale and industrial facilities

Extension of the BoxAir and AquaMaster heat pump series.

Designed for heating and cooling (reversible and passive) of large-scale facilities such as office buildings, schools, sports facilities, manufacturing and warehouse industrial halls and others. Also suitable for industrial cooling and waste heat recovery systems from industrial processes.

Air-to-water, ground-to-water and water-to-water systems, compact and split solutions. Easily connected in cascade, providing exceptional overall performance for large-scale buildings and industrial plants.

VZDUCH-VODA



BoxAir Inverter

Compact with frequency-controlled compressor



BoxAir Inverter Split

Split with frequency-controlled compressor

ZEMĚ-VODA / VODA-VODA



AquaMaster 150.2 Z / 180.2 Z

Two-compressor ON/OFF models



AquaMaster 120 Z

The most powerful one-compressor ON/OFF model

European certification mark
The Heat Pump KEYMARK



037





KEY FEATURES

- Air-to-water output up to 35 kW per compressor circuit in compact as well as split design
- Ground-to-water/water-to-water output of up to 64 kW
- MasterLAN power cascade control included
- Total cascade output of up to 1000 kW
- Modbus RTU communication protocol
- Online control and monitoring
- Option for object cooling or waste heat recovery



MAIN BENEFITS

The **high-end components** used and **the unique control system employed offer highly efficient and extremely quiet operation**, the ability to control up to 6 independent heating/cooling circuits and extended service life. Additionally BoxAir Inverter and InverterSplit units are equipped with EVI (direct refrigerant injection into the compressor) technology, allowing for efficiency in extreme climate conditions and an outlet temperature of up to 64°C. The wide range of additional options also includes a bivalent source or a desuperheater for efficient hot water production.



PROMPT RETURN ON INVESTMENT

An investment proven in practice: In the industrial facilities implemented so far, **the economic return is in the order of several years.**



HEATING, COOLING AND RECOVERING

With a heat pump, a building or facility can be heated in winter, cooled in summer and efficiently powered with waste heat from industrial processes. The unique and **extremely energy-efficient passive cooling (for ground-to-water and water-to-water) design** can also be used.



POWER CASCADE FOR HIGH PERFORMANCE

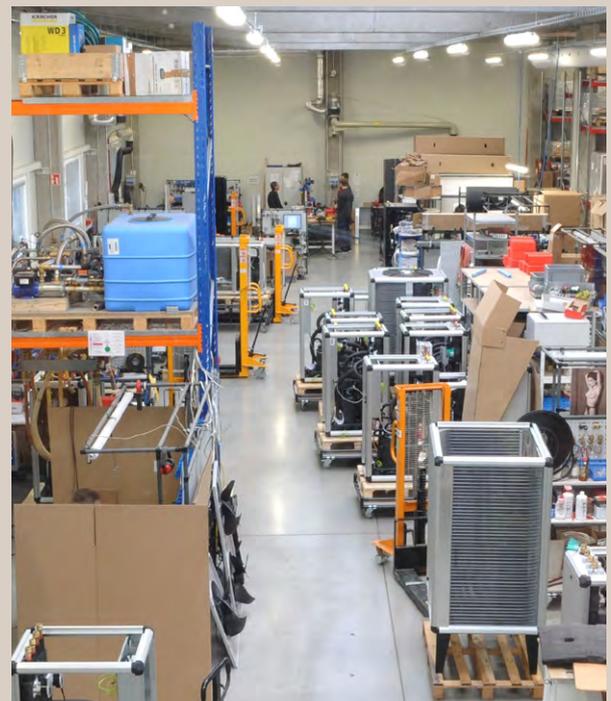
With the integrated MasterLAN software, **up to 16 heat pumps can be easily set up and connected to control power cascades of hundreds of kW.**

MASTERTHERM: A CZECH MANUFACTURING SINCE 1994

MasterTherm is a manufacturer of air-to-water, ground-to-water and water-to-water heat pumps for single-family residences and apartment buildings as well as industrial facilities. All technical development and production of MasterTherm heat pumps is carried out in the Czech Republic.



More than two thirds of MasterTherm's production is exported abroad, especially to Western Europe. MasterTherm also carries out special projects such as heat recovery systems at the IT4Innovations supercomputer centre in Ostrava, cooling and recovery of waste heat from particle accelerators at the Institute of Nuclear Physics of the Czech Academy of Sciences and cooling and heat recovery of ČEZ Energo cogeneration units.



Air-to-water

In compact or split design

Extremely efficient solution for the heating and cooling of office buildings, production or warehouse halls, schools, sports facilities and other large-scale buildings.



BoxAir 60 Inverter

Compact BoxAir Inverter 60 I with continuously (frequency) controlled compressor to ensure the highest heating efficiency.

BoxAir 60 Inverter Split

Split design of air-to-water heat pump for large buildings with frequency-controlled compressor.

A⁺⁺⁺ Energy efficiency



7-year warranty



online control

Unique MasterTherm software for pump control

- Custom application for control of the cooling circuit and peripherals
- Equithermal MaR (measurement and control)
- Advanced **temperature feedback control in the building** based on indoor room temperature sensors
- Control via touchscreen terminal or **online application**
- Includes remote service monitoring and diagnostics
- Control of up to 6 heating circuits incl. optional solar connection





Model	Design	Compressor	Performance at A7W35	Thermal loss of the object Q _z	Seasonal energy efficiency of heating – low temperature operation at 35°C		Seasonal energy efficiency of heating – medium-temperature operation at 55°C		Acoustic pressure level L _p (5 m from outdoor units)	Order number (according to heating circuit control)
			kW	kW	SCOP	Class	SCOP	Class	dB(A)	Regulation PLUS
BoxAir 60 I	compact	inverter	10-35	do 28	4.50	A+++	3.45	A++	45	1BA-60I-1
BoxAir 60 IS	split	inverter	10-35	do 28	4.50	A+++	3.45	A++	45	1BA60IS-1
Main heating circuit									yes	
Auxiliary heating circuit									independently 2 incl. mixing	
Space temperature									in 2 zones	
Hot water (DHW)									yes	
Optional									up to 6 heating circuits	

Wiring diagrams, dimensions and detailed technical data for all models can be found in the Technical Data section.

Optional equipment

7-year warranty on the complete pump 107Z

Extended warranty valid from commissioning of the pump. Only in combination with 1OICON.

MasterTherm Online App 1OICON

Connecting the pump to a central MasterTherm server allows you to control the pump online from anywhere using the web or app. Remote service access included.

Reverse cooling mode 10CH

Reverse operation of the pump allowing for long term cooling of the building in summer.

Room in unit for auxiliary heating circuit 10PAD

Terminal with temperature sensor for placement in reference rooms of other heating circuits.

Phase monitor (ON/OFF models) 10SFC

Monitor protects 3-phase ON/OFF compressors against damage.

Softstart for soft start of compressor (ON/OFF models)

Reduces the starting current when starting the compressor.

Room unit for auxiliary heating circuit with humidity sensor 10PAD

Includes humidity sensor for eliminating condensation and humidity during cooling.

Expansion control module PLUS 10EK

Increases the number of regulated auxiliary heating circuits up to 6 (from the basic 2).

Integrated electric meter 3x 65 A 10EM65AMID

Integrated 3-phase electric meter for local measurement of electricity consumption. MID certification.

RAL colour sampler 10CO

Individual colour for pump panels (RAL 9006 in basic equipment).

EXTRAS FOR BA60IS MODEL:

External electric boiler 7.5 + 7.5 kW 10ETA1M15

External electric boiler 12 + 18 kW 10ETA1M30

Desuperheater for high efficiency hot water heating 10DESUP

BASIC FEATURES

- Air-to-water system in compact or split design
- With frequency-controlled (BoxAir Inverter and Inverter Split) or ON/OFF compressor (BoxAir)
- **Power up to 35 kW per compressor circuit**
- Easy installation and connection to building heating systems
- Power cascade control by means of MasterLAN in standard equipment
- **ModbusRTU communication protocol as standard**
- Built-in circulator with speed control



- Minimised noise due to ultra-quiet fans with smooth speed control



- Use for heating and cooling of the building incl. hot water production



- Heating water temperature up to 64 °C (BA 60 I and BA 60 IS, Other 55 °C)
- Outdoor temperature range from -20 °C to +40 °C
- Built-in electric boiler 7.5 + 7.5 kW (BA 60 I and BA 75 Z)



Ground-to-water / water-to-water

Powerful One and
Two compressor models

With one or two parallel ON/OFF compressors for extremely efficient heating and cooling of large-scale buildings. Also suitable for industrial cooling and waste heat recovery systems from industrial processes.



AquaMaster 150.2 Z / 180.2 Z

Ground-to-water/water-to-water heat pump with two parallel ON/OFF compressors. Depending on the design, the output range is 57.7 or 64.4 kW.



AquaMaster 120 Z

The most powerful model of the single-compressor series AquaMaster with an output of 46.4 kW.



AquaMaster & AquaMaster Inverter

For large buildings, heat pumps from the standard ground-to-water/water-to-water range with outputs up to 33 kW are also suitable.

A⁺⁺⁺ Energy efficiency



7-year warranty



online control

Unique MasterTherm software for pump control

- Custom application for control of the cooling circuit and peripherals
- Equithermal MaR (measurement and control)
- Advanced **temperature feedback control of the building** based on indoor room temperature sensors
- Control via touchscreen terminal or **online application**
- Includes **remote service monitoring** and diagnostics
- Control of up to 6 heating circuits incl. optional solar connection





Model	Performance at A7W35	Thermal loss of the object Q _z	Performance at W10W35	Seasonal energy efficiency heating – low temperature operation at 35 °C		Seasonal energy efficiency heating – medium temperature operation at 55 °C		Order number
	kW	kW	kW	SCOP	Class	SCOP	Class	Regulation PLUS
AquaMaster 120 Z	46.4	do 46	60.8	4.97	A+++	3.35	A++	1AQ120Z-1
AquaMaster 150.2 Z	57.7	do 58	79.3	4.38	A++	3.19	A+	1AQ150.2Z-1
AquaMaster 180.2 Z	64.4	do 64	90.9	4.50	A++	3.35	A++	1AQ180.2Z-1

Control of heating circuits	Regulation PLUS
Designed for	multi-circuit heating systems
Main heating circuit	yes
Auxiliary heating circuit	independently 2 incl. mixing
Space temperature	in 2 zones
Hot water (DHW)	yes
Optional	up to 6 heating circuits

Optional equipment

7-year warranty on the complete pump 107Z

Extended warranty valid from commissioning. Only in combination with 1OICON.

MasterTherm Online application 1OICON

Online control and remote service access.

Desuperheater for high-efficiency hot water heating 1ODESUP

Integrated device which, by means of a separate hydraulic circuit, removes the heat of superheated vapours at the compressor inlet and increases the efficiency of hot water heating. Operates in both heating and cooling modes of the facility.

Room unit for auxiliary heating circuit 1OPAD

For reference rooms of other heating circuits (only for PLUS control).

Room unit for auxiliary heating circuit with humidity sensor 1OPADH

With humidity sensor to eliminate air humidity condensation during cooling (only for PLUS control).

Phase monitor 1OSFC

Protects 3-phase ON/OFF compressors against damage.

Softstart for soft start of compressor
Reduces the start-up current during compressor start-up.

PLUS control expansion module 1OEK
Reduces the number of reg. auxiliary heating circuits up to 6.

Integrated electric meter 3x 65 A 1OEM65AMID
For local measurement of energy consumption. MID certification.

Electric boiler 4.5 kW/6.0 kW/7.5 kW 1OEkOT
Built-in bivalent, or emergency, heat source.

Water-to-water design
Different evaporator and electrical equipment.

Colour according to RAL colour sampler 1OCO
Individual colour for pump panels.
Standard colour RAL 9006 silver.

Wiring diagrams, Dimensions and detailed technical data for all models can be found in the Technical Data section.

BASIC FEATURES

- Ground-to-water heat pump (or water-to-water on request)
- Independent of weather or outdoor temperature
- Very quiet operation and zero noise
- **Power up to 64 kW**
- **Power cascade control MasterLAN in basic equipment**
- **ModbusRTU communication protocol in basic equipment**
- Built-in electronic circulators with speed control for primary and secondary circuits
- Built-in electrical switchgear with protection of all components
- Electronically controlled expansion valve



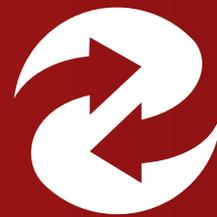
- Use for heating and cooling of the building including hot water production
- Reversible and extremely efficient passive cooling option
- Ready for industrial cooling and waste heat recovery



- Heating water temperature up to 60 °C
- Integrated electric boiler on request



MasterTherm ONLINE



Easy remote control of heat pump. Available not only for family houses, but also for apartment buildings, administrative, commercial or public buildings, and industrial applications.



Possibility of connection to the superior regulation



Cooperation with photovoltaics, loading of spot electricity prices, adaptive regulation of pump activity



Interface for mobile, tablet and desktop



24/7 online monitoring and remote service diagnostics



Hotline & Technical support directly from the manufacturer

Technical Specifications

For large-scale and industrial facilities



Czech product



A tradition since 1994



Exported into 30 countries worldwide



7-year warranty



Online control

Air-to-water



		BoxAir 60 I	BoxAir 60 IS
Design		Compact	Split
Compressor		Inverter	Inverter
Power range at A7W35	kW	10–35	10–35
Object heat loss Q_z	kW	up to 28	up to 28
Power A7W35 ¹	kW	22.3 (60 rpm)	22.3 (60 rpm)
	COP	4.84	4.84
Power A2W35	kW	15.7 (60 rpm)	15.7 (60 rpm)
	COP	3.6	3.6
Power A-7W35	kW	18.0 (90 rpm)	18.0 (90 rpm)
	COP	2.68	2.68
Power A-15W35	kW	20.6 (120 rpm)	20.6 (120 rpm)
	COP	2.3	2.3
Seasonal energy efficiency heating – low-temperature operation at 35 °C	kW	23	23
	SCOP	4.50	4.50
	η_s	177	177
	Class	A+++	A+++
Seasonal energy efficiency heating – medium-temperature operation at 55 °C	kW	22	22
	SCOP	3.45	3.45
	η_s	135	135
	Class	A++	A++
Refrigerant		R410A	R410A
Electric circuit breaker ²		40 A"B"	25 A"B"
Compressor	Connection	3x 400 V	3x 400 V
Weight	kg	275	200 + 80
Mandatory leakage checks according to EP 517/2014		yes	yes
Maximum heating water temperature	°C	64	64
Heating capacity of the integrated electroboiler	bivalence regime	kW	7.5
	Backup power supply mode (and at temperatures below -20 °C)	kW	–/on request 7.5 or 12
Acoustic performance L_w		dB(A)	66
Sound pressure level L_p at distance from outdoor unit	of 1 m	dB(A)	57
	of 5 m	dB(A)	45
	of 10 m	dB(A)	39
Order number(according to heating circuit control) PLUS Regulation	Regulation PLUS	1BA60I-1	1BA60IS-1

Heating circuit control	Designed for	Main heating circuit	Auxiliary heating circuit	Space temperature	Heating Water	Optional
PLUS Regulation	multi-circuit heating systems	yes	independently 2 incl. mixing	in 2 zones	yes	up to 6 heating circuits

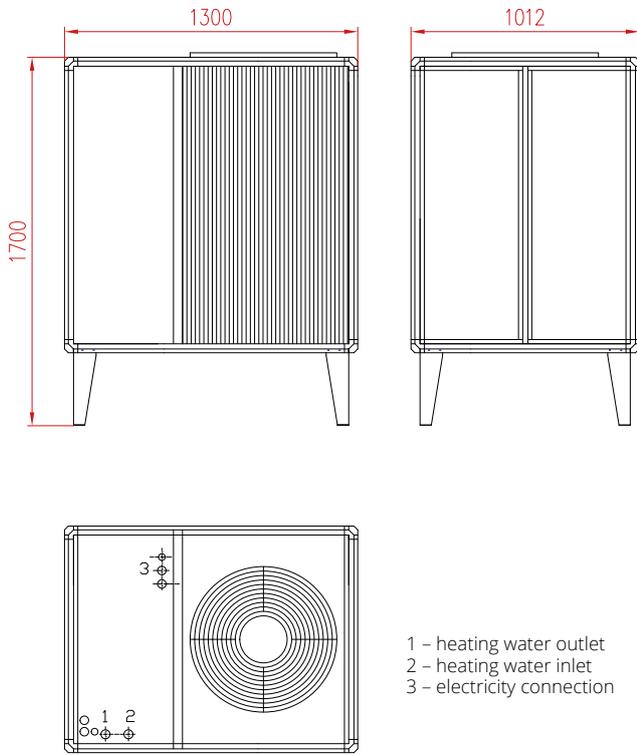
1 Performance data according to EN 14 511, in accordance with EHPA requirements for the award of the Q quality mark. A7W35 60 Hz - air 7 °C, water 35 °C, compressor frequency 60 Hz.

2 Recommended electrical protection value 3x 400 V, incl. auxiliary integrated electric boiler.

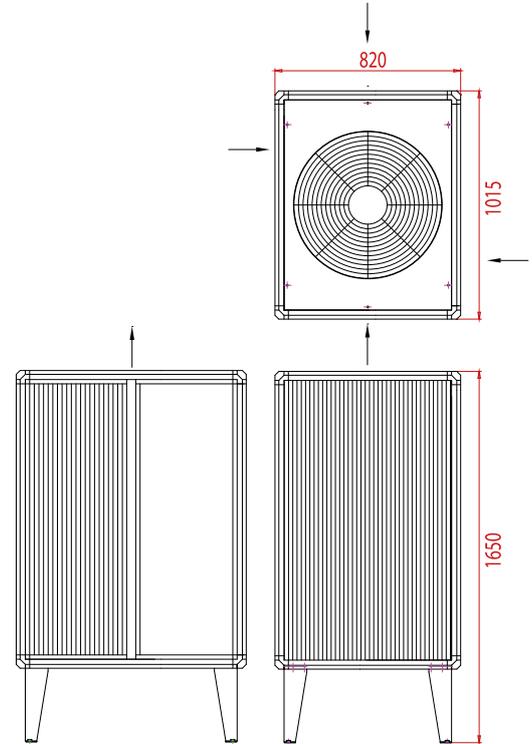
3 Design output at outdoor temperature of -10 °C according to EN 14 825.



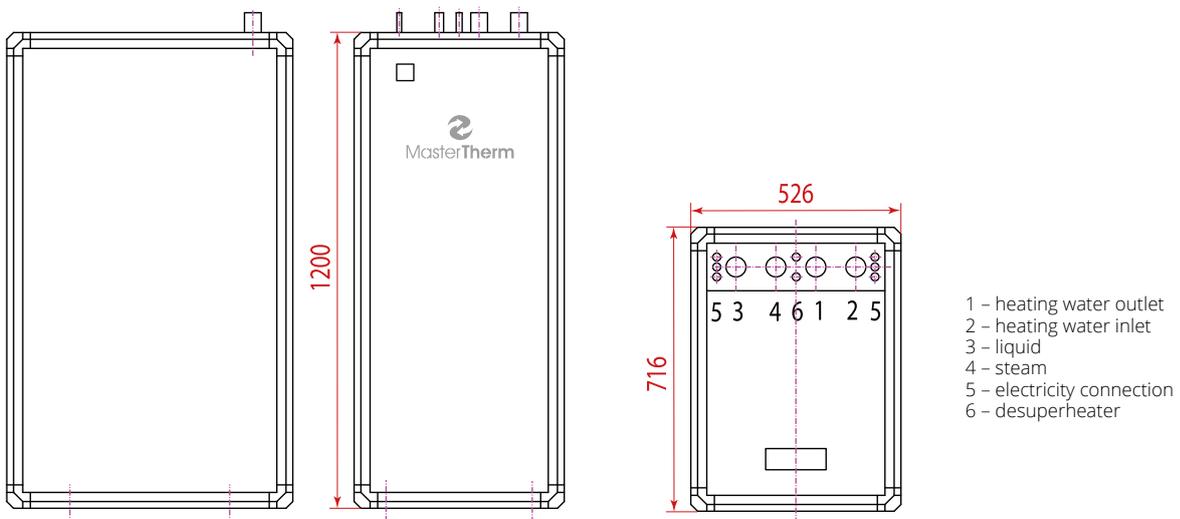
DIMENSIONS OF MODEL BA 60 I



DIMENSIONS OF THE EXTERNAL UNIT OF MODEL BA 60 IS



DIMENSIONS OF THE INDOOR UNIT BA 60 IS



Ground-to-water / water-to-water



			AquaMaster 120 Z	AquaMaster 150.2 Z	AquaMaster 180.2 Z
Power B0W35 ¹		kW	46.4	57.7	64.4
	COP		4.58	4.2	4.1
Plant heat loss Q ₂		kW	up to 46	up to 58	up to 64
Power W10W35		kW	60.8	79.3	90.9
	COP		5.80	5.6	5.5
Seasonal energy efficiency heating – low temperature operation at 35 °C	Power ³	kW	46	57	64
	SCOP		4.97	4.38	4.5
	η _s	%	191	167	172
	Class		A+++	A++	A++
Seasonal energy efficiency heating – medium-temperature operation at 55 °C	Power ³	kW	37.62	52	61
	SCOP		3.35	3.19	3.35
	η _s	%	126	119	126
	Class		A++	A+	A++
Approximate required length of the ground well (or the sum of the lengths of several wells)		m	690	870	960
Refrigerant			R407C	R407C	R407C
Electric circuit breaker ²			3x 32 A"C"	3x 50 A"C"	3x 64 A"C"
Compressor	Connection		3x 400 V	3x 400 V	3x 400 V
Weight		kg	250	420	420
Mandatory leakage checks according to EP 517/2014			yes	yes	yes
Maximum heating water temperature		°C	60	60	60
Heating capacity of integrated electric boiler (optional equipment)		kW	on request 4.5–7.5	on request 4.5–7.5	on request 4.5–7.5
Acoustic performance L _w		dB(A)	60	60	60
Order number (according to heating circuit control)	PLUS Regulation		1AQ120Z-1	1AQ150.2Z-1	1AQ180.2Z-1

Heating circuit control	Designed for	Main heating circuit	Auxiliary heating circuit	Space temperature	Heating Water	Optional
PLUS Regulation	multi-circuit heating systems	yes	independently 2 incl. mixing	in 2 zones	yes	up to 6 heating circuits

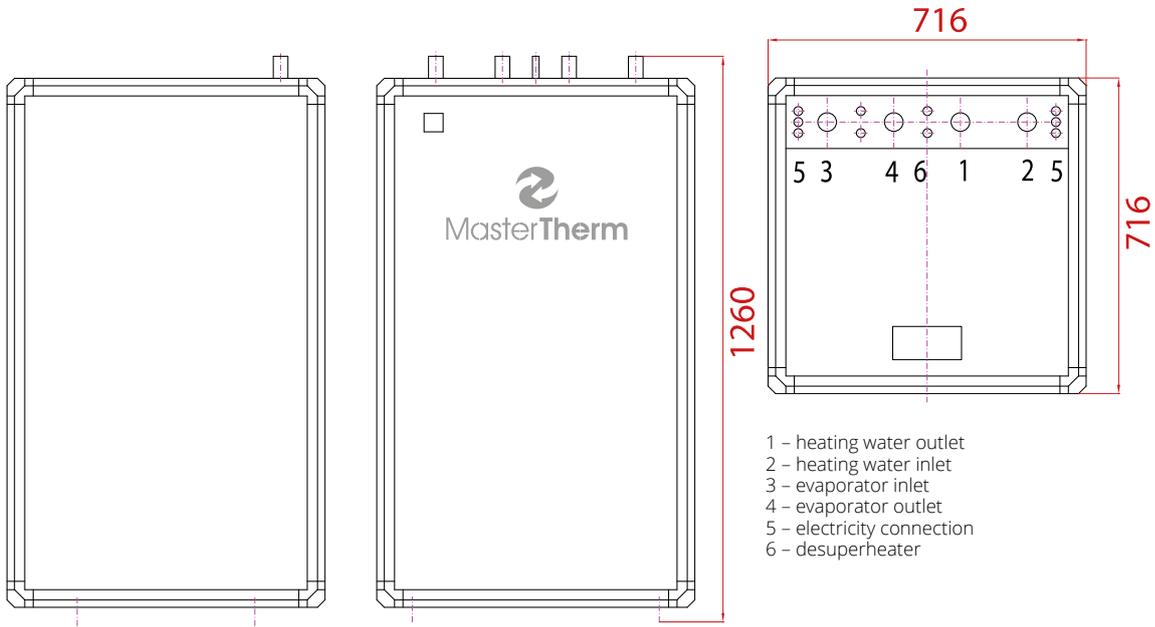
¹ Performance data according to EN 14 511, in accordance with EHPA requirements for the award of the Q quality mark. A7W35 60 Hz - air 7 °C, water 35 °C, compressor frequency 60 Hz.

² Recommended electrical protection value 3x 400 V, incl. auxiliary integrated electric boiler.

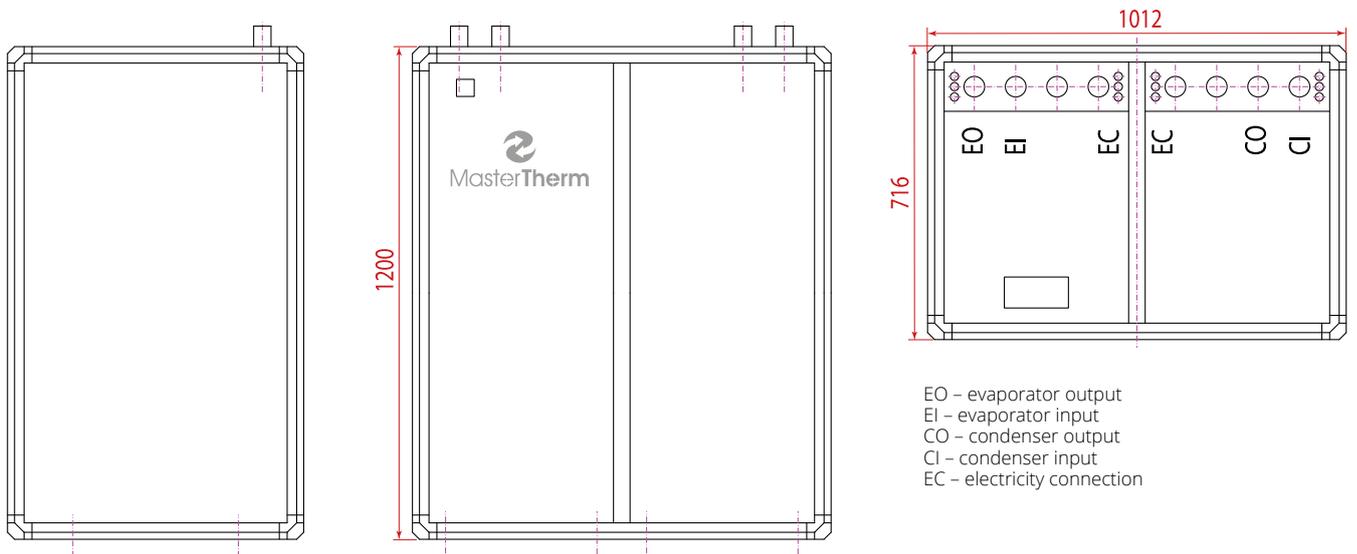
³ Design output at outdoor temperature of -10 °C according to EN 14 825.



DIMENSIONS OF MODEL AQ 120 Z



DIMENSIONS OF MODELS AQ 120 2.Z AND AQ 180.2 Z



Ground-to-water / water-to-water



From the standard AquaMaster AquaMaster Inverter series

		AquaMaster 60 Z	AquaMaster 75 Z	AquaMaster 90 Z	AquaMaster Inverter 60 I	AquaMaster Inverter 90 I
Power range B0W35		-	-	-	7-35	10-48
Power B0W35 ¹	kW	23.1	28.2	33.2	20.2 (60 rpm)	31.3 (90 rpm)
	COP	4.2	4.1	4.3	4.7	4.6
Object heat loss Q _z	kW	up to 23	up to 28	up to 33	up to 35	up to 48
Power W10W35	kW	31.2	37.7	45.0	26.6 (60 rpm)	41.2 (90 rpm)
	COP	5.4	5.2	5.4	6.2	5.9
Seasonal energy efficiency heating – low temperature operation at 35 °C	Power ³	23	28	33	33	44
	SCOP	4.27	4.25	4.42	5.02	4.87
	η _s	163	162	169	193	187
	Class	A++	A++	A++	A+++	A+++
Seasonal energy efficiency heating – medium-temperature operation at 55 °C	Power ³	22	26	30	33	42
	SCOP	3.14	3.11	3.10	3.97	3.87
	η _s	118	116	116	151	150
	Class	A+	A+	A+	A+++	A+++
Approximate required length of the ground well (or the sum of the lengths of several wells)	m	345	420	495	525	720
Refrigerant		R407C	R407C	R407C	R410A	R410A
Electric circuit breaker ²		3x 25 A"C"	3x 25 A"C"	3x 32 A"C"	3x 32 A"B"	3x 40 A"B"
Compressor	Connection	3x 400 V	3x 400 V	3x 400 V	3x 400 V	3x 400 V
Weight	kg	245	255	275	180	200
Mandatory leak checks according to EP 517/2014		no	no	no	no	no
Maximum heating water temperature	°C	60	60	60	60	60
Heating capacity of integrated electric boiler (optional equipment)	kW	4.5-7.5	4.5-7.5	4.5-7.5	7.5	7.5
Acoustic performance L _w	dB(A)	51	51	51	55	60
Order number (according to heating circuit control) PLUS Regulation	Regulace PLUS	1AQ60Z-1	1AQ75Z-1	1AQ90Z-1	1AQ60I-1	1AQ90I-1

Heating circuit control	Designed for	Main heating circuit	Auxiliary heating circuit	Space temperature	Heating Water	Optional
PLUS Regulation	multi-circuit heating systems	yes	independently 2 incl. mixing	in 2 zones	yes	up to 6 heating circuits

1 Performance data according to EN 14 511, in accordance with EHPA requirements for the award of the Q quality mark. A7W35 60 Hz - air 7 °C, water 35 °C, compressor frequency 60 Hz.

2 Recommended electrical protection value 3x 400 V, incl. auxiliary integrated electric boiler.

3 Design output at outdoor temperature of -10 °C according to EN 14 825.



THE PREMIER HEAT PUMP PIONEERS SINCE 1994



- 2024**
Complete range of heat pumps from 1 to 70 kW with natural refrigerant R290
- 2023**
New manufacturing facility fully completed and optimised to maximise production quantities
- 2022**
New production facility to accommodate fast growing demand
- 2021**
MasterTherm Online & pGDx: new level of control and online diagnostics
- 2018**
AQ ZHX: high-temperature heat pump for industry and heat recovery
- 2017**
BoxAir Inverter Split (air-to-water): split solution with compressor inside the inner unit
- 2016**
BoxAir 60 Inverter (air-to-water) with EVI: heating and cooling of commercial and industrial buildings
- 2010**
BoxAir Inverter (air-to-water): frequency-controlled compressor and fan
- 2008**
AquaMaster Inverter (ground-to-water): frequency-controlled compressor
- 2004**
AirMaster AKU (air-to-water): 1. heat pump with EEV on Czech market
- 1994**
Foundation of MasterTherm brand



member of Atrea group



www.mastertherm.eu

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