# Herz®

## PRODUCT WORLD

# CONTENT



HERZ Product World


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Note: For better readability, the masculine form is used for gender-related nouns; however, it naturally refers to female as well as all other gender identities.
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**The true strength of our products is demonstrated both by their technical precision and by their ability to overcome everyday challenges with time-saving, innovative and affordable solutions.”**

Nurgül Akbas
Editor-in-Chief, HERZ

**Dear customers and partners,
dear friends of HERZ!**

For many years, I have had the privilege of working closely with our customers – whether it be an on-site interview, a visit to a construction site or an intensive talk at a company event. This is how I learn first-hand how versatile and reliable our products are in everyday use and how they come into their own in a wide range of applications – from new construction and renovation projects to modern office complexes.

This product catalogue is all about this strength: it presents the result of decades of experience, proven and modern technologies, continuous development and the aspiration to offer our customers the best possible solutions. We see ourselves not only as a provider, but also as a partner who delivers solutions that convince in the long term and meet the requirements of our customers.

With the HERZ Group, we offer an impressive range of solutions in building services engineering – from valves for heating, cooling, air conditioning and plumbing, to renewable energy systems, biomass plants and sustainable insulation materials.

Our quality standards are inextricably linked to our European production. Thanks to our manufacturing expertise, we are able to meet today's industry requirements while developing solutions that are also geared to the challenges of the future.

With this product catalogue, we would like to once again show you the diversity and strength of our portfolio and demonstrate the added value of our products for your projects. We invite you to discover the world of the HERZ Group – a world where innovation, quality and sustainability go hand in hand.

Nurgül Akbas

**Modern technology means less energy consumption with the same or greater comfort and no need to be ashamed of a warm home.**

Gerhard Glinzerer
Owner HERZ Group

**Dear customers and partners,**
**dear friends of HERZ!**

When a valve factory was established in Herzgasse in Vienna almost 130 years ago in 1896, the founding families Gebauer & Lehrner could hardly have expected that this small valve production plant would one day become a global leader in the field of building technology.

Some items can be found in old catalogues, products such as tap fittings or brass elements for Art Nouveau styles, which have long since ceased to be part of the HERZ product range, but are part of our company's history.

Today, our group of companies combines in-depth expertise in building services engineering, renewable energies and sustainable solutions for building insulation. With HERZ Armaturen, Binder Energietechnik, HERZ Energietechnik and Hirsch Servo, we combine decades of experience and innovative strength under one roof. Whether it's precise control technology, high-performance biomass systems or state-of-the-art insulation materials, our products complement each other to create a well-thought-out overall system that enables energy efficiency and comfort at the highest level. At our European production sites, more than 3.000 employees work to develop future-oriented solutions that are used worldwide.

As a manufacturer of heating and control technology, we develop technologies that use energy efficiently while providing maximum comfort. Our products make it possible to use heat in a targeted and demand-oriented way – without waste or compromise. After all, a warm home should not be a reason for justification, but a matter of course that can be achieved economically and sustainably with modern technology.

In the following 100 pages, you will find new, improved and expanded products from our factories in Austria, Italy, Poland, Slovenia and Serbia. With this expansion of our range and the existing product programme, we are able to show our global

presence as an Austrian company. Top-quality products, perfect service and the care of our customers and partners have made this development of the company from Herzgasse into an international supplier of building technology products possible.

The current economic environment is not exactly helpful in this regard. Interventions by the ECB, the EU and national governments in the economy have caused severe disruptions that are placing a massive burden on companies and whose effects, especially in the European Union, have led to recession, company bankruptcies and general uncertainty.

This makes it all the more important to expand into parts of the world that are characterised by growth and confidence, such as Asia and the Arab world, but also Oceania, Africa and North America. This has enabled HERZ not only to tap into markets with high potential with new and existing partners, but also to establish long-term collaborations that enable the exchange of expertise, technological advances and a stronger local presence. The increasing demand for efficient and sustainable solutions confirms that this is the right approach and underlines the importance of an international outlook.

With the existing product range and the innovations presented in this brochure, we are confident that HERZ will continue to be successful in the future.

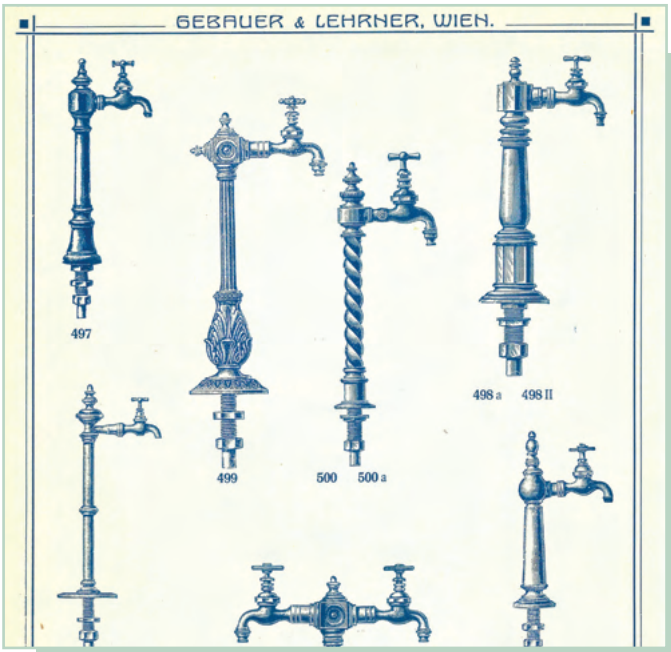
We are pleased and grateful, dear reader, that you have picked up this brochure and hope that you will find interesting and useful information for your work on the following pages.

Gerhard Glinzerer

# Once upon a time, there was...


**Elements for Art Nouveau lamps, 1898**

**Gebauer & Lehrner with their employees, 1910**




**Bar Fittings, 1912**

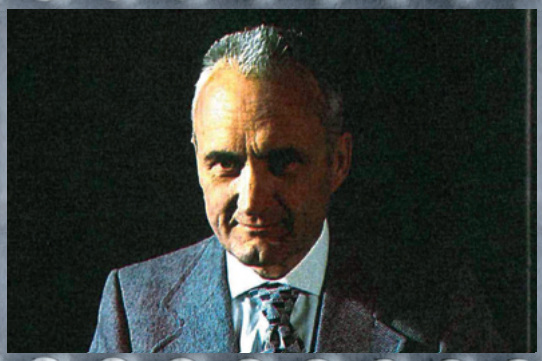
# HERZ HISTORY

## 1896

Franz Gebauer and Viktor Lehrner founded "Gebauer & Lehrner" with 12 employees in Herzgasse, Vienna. Before World War I, the company grew to 300 employees and offered 1,300 different products.

## 1940s

During the war, the production of valves was prohibited, and the company was tasked with producing, among other things, torpedo fuses for the needs of the German Navy. Viktor Lehrner took over sole ownership.



## 1980s

The company moves to its current headquarters: Richard-Strauss-Straße in the 23rd district. Gerhard Glinzerer buys HERZ Armaturen.

## 1990s

The conversion of the company from a public limited company (AG) to a limited liability company (GmbH). The founding of numerous sales subsidiaries and the establishment of a global market presence.

## 2000s

The construction of new factories and the acquisition of manufacturers of building technology equipment both domestically and internationally.

## 1950s

Richard Lehrner took over the management, and the company specialised in heating valves. It was now able to begin series production. The company developed a strong focus on exports.

## 1960s

The first export successes begin to show. The name HERZ gradually establishes itself.

## 1970s

Focus on a new marketing concept that proves successful: 1.8 million valves are sold across Europe. Introduction of the partnership model. The company is rebranded as HERZ Armaturen AG.


## 2010s

The founding of HERZ Energietechnik in Pinkafeld, as well as the acquisition of Binder in Bärnbach. The majority stake in the Hirsch Servo Group, based in Glanegg, is acquired.

## Today

The HERZ Group is now one of the most successful companies in the industry, with 44 production sites in 12 European countries, 50 subsidiaries, 3,500 employees worldwide, and an annual revenue of 650 million euros.

# HERZ GROUP

The Austrian HERZ Group, with a focus on energy efficiency and the associated production of biomass plants, heat pumps, valves, district heating stations, control technology, and insulation materials, provides the products for the required measures and is uniquely structured in Europe in this form.

The HERZ Group operates 44 production sites in 12 European countries, is active worldwide and employs over 3.100 people. Decades of experience and specialisation in the fields of heating-, cooling- and control technology, of valves and of heat and cooling distribution provide the foundation for the development of innovative products with successful solutions in both technology and design.


## HERZ Armaturen

The corporate headquarters in Vienna is the HERZ heart of valve production and innovation. HERZ is a full-service provider for the HVAC industry, with all products manufactured in Europe to meet the high-quality standards expected of HERZ products.

The broad product portfolio of HERZ Armaturen includes, among others: thermostatic heads, thermostatic valves, connection systems, radiator fittings, control and regulating valves, flange fittings, pipe fittings, temperature control, measurement technology, control technology, drinking water fittings, underfloor heating systems, apartment transfer stations, as well as district heating transfer stations and fine valves.

Richard-Strauss-Straße 22,
1230 Vienna, AT
www.herz-armaturen.at


## HERZ Energietechnik
## Complete provider of renewable energy systems

With the most modern pellet and wood chip heating systems up to 1,500 kW (up to 4,500 kW in cascade operation), wood gasification boilers up to 40 kW, and heat pumps up to 30 kW, HERZ offers a complete range of modern, cost-effective, and environmentally friendly heating systems with the highest level of comfort and user-friendliness.

For the Austrian heating technology specialist HERZ, the further development of products and the generation of new technologies are of great importance. Even systems that are already successfully established on the market are continuously expanded and optimized to stay up to date with the latest advancements.

Herzstraße 1,
7423 Pinkafeld, AT
www.herz-energie.at

**570 Mil**
Euro annual turnover

**3.100**
Employees worldwide

**50**
Subsidiaries

**44**
Production facilities in 12 European countries


Mitterdorfer Strasse 5,
8572 Bärnbach, AT
www.binder-gmbh.at

## BINDER Energietechnik
## Biomass systems up to 20 megawatts

Thanks to the wide product range of BINDER – a 100% subsidiary of the HERZ Group – the existing biomass product portfolio is perfectly complemented. Systems of up to 20,000 kW are offered, making HERZ an attractive partner for private customers as well as commercial and industrial clients. In addition to conventional hot water heating systems, high-temperature water systems, saturated steam systems, and hot air drying systems are also produced.

In addition to numerous combustion systems for standard fuels, BINDER also provides tailored solutions for special fuels. In the company's own test center, the desired fuel is tested, and whenever possible, a solution is developed to ensure clean and environmentally friendly combustion.


Glanegg 58,
9555 Glanegg, AT
www.hirsch-gruppe.com

## HIRSCH Servo Group
## Global Player in the particle foam industry

The HIRSCH Servo Group is the European market leader in the production of Styrofoam insulation materials and packaging, as well as the world's largest supplier of machines and moulds for processing particle foams. The diverse product range includes building insulation for floors, walls, and roofs, as well as protective packaging solutions and industrial moulded parts.

In the technology sector, HIRSCH develops and manufactures energy-efficient and resource-saving systems for processing particle foams and moulded fibre. Through sustainable product solutions for construction, industry, and packaging, HIRSCH focuses on resource conservation, energy efficiency, and circular economy to actively shape the future.

# REFERENCES

Photo: Zotter Chocolate

## ZOTTER CHOCOLATE AUSTRIA

The internationally successful Zotter Chocolate is one of the few organic chocolate brands worldwide that advocates for fair trade and excludes the exploitation of nature in the production of its chocolates. For the roasting process, Zotter uses the Binder steam boiler with a capacity of 840 kW, which is partially operated with cocoa shells as a sustainable fuel.

## HIDROPONIA DEL NOROESTE MEXICO

Even in the land of the Aztecs, HERZ quality is trusted. The tomato greenhouses of Hidroponia del Noroeste are located at 1,500 metres above sea level, where winter temperatures can drop to -9 °C. To maintain a constant temperature in the greenhouses throughout the year, three Biofire hot water boiler systems from HERZ Energietechnik are successfully and efficiently in use, powered by an extraordinary fuel: pecan shells.

Photo: HERZ

Photo: BEWI

## BEWI NORWAY

The Norwegian company BEWI is an international provider of packaging, components and insulation solutions. For the production of EPS fish boxes with lids, BEWI relies on Austrian quality and uses numerous molding machines, including matching molds from HIRSCH Servo. These enable smooth, customizable, and efficient production of EPS products.

## BURJ KHALIFA
## UNITED ARAB EMIRATES

For the tallest building in the world, HERZ delivered various HVAC valves, including combi valve pressure independent control valves and their corresponding actuators, which play an important role in reducing energy consumption while ensuring optimal building temperature.




Photo: HERZ


Photo: Salman Al-Mazini

## KING ABDULLAH INTERNATIONAL GARDENS
## SAUDI ARABIA

The botanical garden in the heart of the dry desert aims to raise awareness about the effects, processes, and research of climate change. From small valves to flanged fittings and precision components, HERZ products were extensively used in this project, enabling the climate required and desired for the plants.



## SOFITEL HOTEL RESORT & SPA
## FIJI ISLANDS

During the multi-million-dollar expansion of the Sofitel Hotel on the Fiji Islands, numerous HERZ products ensured an efficient cooling system, providing guest room comfort. The project also included many other cold-water valves, such as branch commissioning valves and shut-off valves, which ensure that all consumers throughout the building are hydraulically balanced, thus guaranteeing efficient room cooling.




Photo: sofitel-fiji.com

# Control- &

Precise control and efficient operation are key to optimal heating supply. With HERZ solutions, you ensure that your heating systems operate efficiently and energy is utilised optimally.

Our solutions provide exact temperature regulation, minimise energy consumption and maximise comfort. This way, you benefit from a reliable, cost-effective and environmentally friendly heating and cooling solution.

# Regulation Technology



# DISTRICT HEATING TRANSFER STATIONS

## Heat and efficiency combined

HERZ District Heating Transfer Stations play a central role in the efficient distribution of heat in residential and industrial buildings. As a link between the district heating network and consumers, the transfer station transfers and measures the delivered heat and enables integration into a remote monitoring and control system. An efficient district heating transfer station is beneficial both for the environment and the consumers.

**Customisation to customer needs**

HERZ offers customisable district heating transfer stations depending on the application. As a general rule, the performance on the primary district heating side is electronically regulated in all transfer stations. The installation of a heat meter is also prepared. The compact design and good accessibility of components ensure user-friendly maintenance. Special attention is given to training users through HERZ specialists for the operation and maintenance of the district heating transfer station.

**Top application areas**

- ☑ Single & multi-family homes
- ☑ Residential complexes
- ☑ Offices
- ☑ Hospitality / Tourism
- ☑ Healthcare centres
- ☑ Industrial facilities
- ☑ Shopping centres

## HERZ District Heating Transfer Station 16 kW - 213 kW

The HERZ District Heating Transfer Station stands out particularly for its compact design. The model is ideally suited for the supply of single- and multi-family homes, as well as commercial businesses, and is offered in 13 different performance sizes. A generously dimensioned stainless steel heat exchanger and the corresponding piping ensure low pressure losses both on the district heating side and on the heating system side.

Depending on the performance range and temperature, the station is designed as either wall-mounted or freestanding. The guideline is as follows:

- Wall-mounted: 16 kW; 32 kW; 47 kW; 63 kW; 78 kW.
- Freestanding: 93 kW; 108 kW; 122 kW; 135 kW; 148 kW; 172 kW; 194 kW; 213 kW

This guideline applies to primary temperatures of 85/52 °C and secondary temperatures of 70/50 °C.

### Technical data

| | | | |
|---|---|---|---|
| Max. operating temperature (primary) | 100 °C | Max. pressure loss at heat exchanger (secondary) | 15 kPa |
| Max. operating temperature (secondary) | 90 °C | Electrical connection | 230 V AC |
| Max. operating pressure (primary) | 16 bar | Max. temperature difference between secondary and primary return (return gradient) | 2 K |
| Max. operating pressure secondary (safeguarded) | 3 bar | Dimension (wall-mounted, L x W ): | 1.083 x 782 mm |
| Max. pressure loss at heat exchanger (primary) | 15 kPa | | |

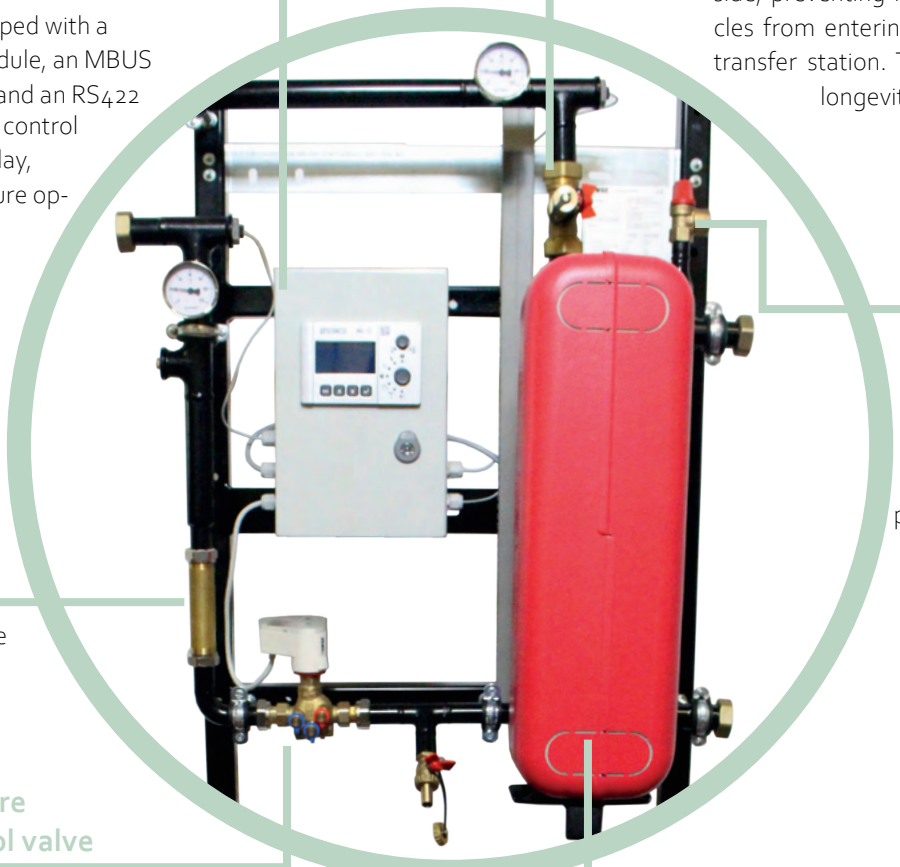
## Components

### Electronics

The electronics are equipped with a communication base module, an MBUS module for heat meters, and an RS422 bus module. Through the control unit with a clear-text display, primary return temperature optimization and 3-point control in the mixed secondary heating circuit can be adjusted, as well as an unmixed heating circuit for boiler charging.

### Strainer

The strainer with a drain valve is installed in the supply line on the primary side, preventing harmful foreign particles from entering the district heating transfer station. This also ensures the longevity of the components.



### Safety valve

The pre-installed 3-bar safety valve ensures proper operation and provides overpressure relief, preventing damage to the components.

### Distance piece

The distance piece for the heat meter is installed in the return line.

### Combi valve pressure independent control valve

The combi valve pressure independent control valve ensures the dynamic maintenance of the pre-set flow rate and allows for the installation of a geared motor, optionally with a fail-safe function (accessory). This enhances safety and reliability in the event of a power failure by closing the valve.

### Heat exchanger

The stainless steel heat exchanger, insulated with rigid polyurethane foam, along with the corresponding piping, ensures low pressure losses on both the district heating side and the heating system side.

## HERZ District Heating Transfer Station
## 20 kW - 4 MW

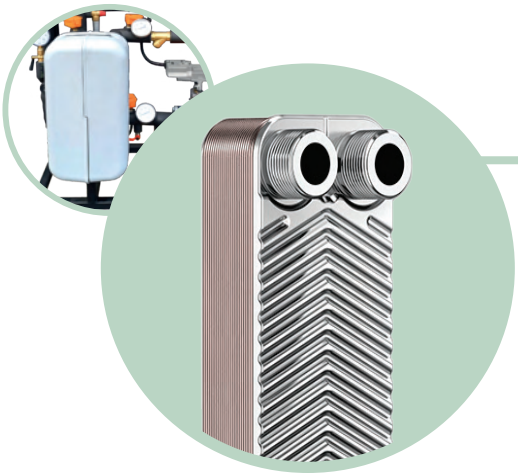
The HERZ District Heating Transfer Station is designed according to the specific requirements of each system. It can be configured as a wall-mounted station or as a freestanding district heating transfer station with a steel frame and adjustable height, allowing the dimensions to be adapted to the intended installation location. Depending on the size, the stations can be delivered as a complete unit or in multiple modules. All stations are factory-tested and ready for operation.

The "Plug and heat" function, along with good accessibility of components, allows for time and cost savings during both installation and maintenance.

### Technial data

| | |
|---|---|
| ☑ Max. operating temperature (primary) | 150 °C |
| ☑ Max. operating temperature (secondary) | 95 °C |
| ☑ Max. operating pressure (primary) | 25 bar |
| ☑ Max. operating pressure (secondary, safeguarded) | 3 bar |

## Components



### Plate heat exchanger

High-quality plate heat exchangers are used in the district heating transfer stations. Depending on the technical requirements, they can be brazed or screwed. The plates of the heat exchanger are made of stainless steel. The stations can have all types of connections.

### Combi valve - pressure independent control valve & actuator

The HERZ Combi valve - pressure independent control valve is a fully pressure-relieved automatic control and regulating valve that combines several functionalities into one product. It integrates a control valve, regulating valve, differential pressure control valve and isolation valve. The valve is operated with an electric actuator, which is controlled via microprocessor regulation. The electric actuator adjusts the required flow rate and thus the power accordingly.

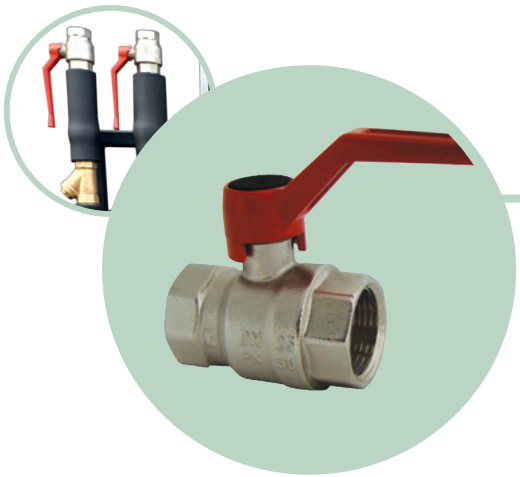
## Safety valve

The safety valve is a central component of every heating system and plays a crucial protective role. It is responsible for monitoring the pressure within the heating system and, in the event of a pressure increase, automatically relieving the system. By purposefully venting excess pressure, the safety valve prevents damage to components of the heating system.


## Electronics

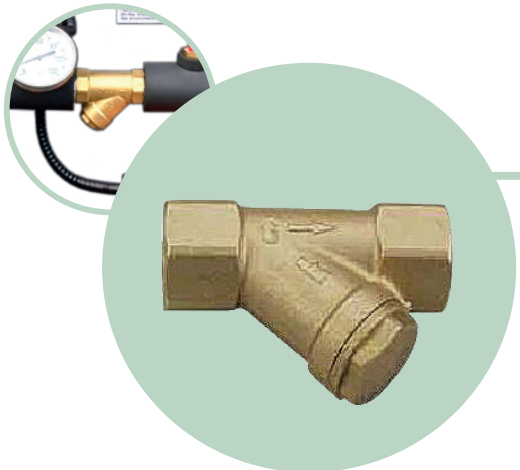
The system uses an XF 5000 microprocessor control, which regulates the operation of the district heating transfer station and ensures efficient heat supply. The electrical setup includes fuses, contactors, switches, and indicators for the circulation pump, as well as measuring and control devices with an electronic controller and input/output modules, a computing unit for the heat meter, temperature sensors, pressure transducers, and communication tools.

The microprocessor control can be expanded if additional input and output signals are required. Using the control unit with an LCD screen, all measured values can be displayed, and all relevant setpoints can be adjusted.



## Ball valves

Reliability, robustness, easy installation, and long lifespan are the main strengths of HERZ ball valves. HERZ ball valves, used as isolation valves, are made of high-quality brass in accordance with European standards. This material provides the necessary strength and excellent corrosion resistance.



## Strainer

The control technology from HERZ is characterised by precision, reliability, and long service life. To ensure the high quality of the components in the district heating transfer station, HERZ strainers are installed in the primary supply and secondary return lines. These prevent harmful foreign particles from reaching the finely machined seating areas of the control and isolating valves, ensuring a clean and properly functioning system.


# PUMP GROUPS

## The indispensable product of the heating and cooling system

HERZ PUMPFIX connection groups are compact system units with isolation and safety valves, as well as control and regulating devices, designed to connect energy generators and supply circuits in building technology.

The PUMPFIX product family consists of several models, each specifically pre-fabricated for various heating and cooling situations. All pump groups can be ordered either with or without an electronic circulation pump. For thermal insulation, each pump group is equipped with a custom-made insulation box made of EPP (expanded polypropylene). This material prevents heat loss due to its high thermal resistance and is both durable and moisture-resistant.

HERZ also offers a wide range of accessories for the pump groups. From steel sheet distributors in a two-chamber system, overflow valves for installation between supply and return lines, hydraulic separators made of steel sheet, connection sets made of corrugated pipe, mounting brackets for pressure expansion vessels, to actuators, HERZ provides all the necessary accessories in European quality.

**Top application areas**

- ☑ Single & multi-family homes
- ☑ Residential complexes
- ☑ Offices
- ☑ Shopping centres
- ☑ Hospitality / Tourism
- ☑ Healthcare centres
- ☑ Industrial facilities

1 4514/4511 XX

DN 20 - DN 50

## PUMPFIX Mix

Pump group for the electronic control of the heating and cooling circuit temperature. Ideal for modern systems with underfloor heating or combined heating systems. It is equipped with a mixing motor for 3-point regulation, making it perfectly prepared for various conditions (full load and partial load) and ensures efficient operation at all times. The spacer is available in either brass or steel, depending on the customer's preference.

### Technical data

- ☑ Thermometer ball valves with isolation valve (0 - 120 °C)
- ☑ Spacer with check valve
- ☑ 3-way mixing valve with bypass (DN25)
- ☑ Mixing motor for 3-point regulation with 230 V
- ☑ Thermal insulation made of EPP
- ☑ Distance Flow/Ret: 125 mm (DN 20 - 32); 180 mm (DN 40 - 50)
- ☑ Optional 24V mixing motor available

1 4510/4514 XX

DN 20 - DN 50

## PUMPFIX Direct

Pump group for a direct heating circuit or direct connection between the heat source and the radiator, with a isolation valve as a connection part. The spacer is available in either brass or steel, depending on preference.

### Technical data

- ☑ Thermometer ball valves with isolation valve (0 - 120 °C)
- ☑ Spacer with check valve
- ☑ Connection part with isolating valve
- ☑ Thermal insulation made of EPP
- ☑ Distance Flow/Ret: 125 mm (DN 20 - 32); 180 mm (DN 40 - 50)

1 4514 XX

DN 25

## PUMPFIX Constant

Pump group for thermostatic control of the heating circuit temperature. The mixing valve can be easily operated using the integrated thermostatic head with contact sensor. Spacer available in brass or steel, depending on preference.

### Technical data

- ☑ Thermometer ball valves with isolation valve (0 - 120 °C)
- ☑ Spacer with check valve
- ☑ Mixing valve with thermostatic head and contact sensor
- ☑ Thermal insulation made of EPP
- ☑ Distance Flow/Ret: 125 mm

1 4513 XX

DN 20

## PUMPFIX Solar

Pump group for solar systems

### Technical data

- ☑ Thermometer ball valves with isolation and check valve (0 - 150 °C)
- ☑ Connection for expansion tank
- ☑ Flow rate controller 4 - 24 l/min
- ☑ With viewing glass and draining valve
- ☑ Spacer with draining valve
- ☑ Incl. safety valve 6 bar and manometer
- ☑ Thermal insulation made of EPP


# SMART-CONTROL

## Constant - precise - smart

HERZ Smartcontrol is an intelligent motor drive with an integrated processor unit that controls the mixing valve and ensures a stable temperature. The system is connected directly to the power grid via a pre-wired cable, making it ready for immediate use (Plug & Play), with no additional installation required. HERZ Smartcontrol features a display and control buttons, allowing all functions to be configured in one place.

HERZ Smartcontrol is mounted on a 3-way or 4-way mixing valve. The product can be configured in 14 different languages. The display shows real-time temperature values as well as other relevant data about the system, providing maximum control and transparency.

**Top application areas**

- ☑ Single & multi-family homes
- ☑ Residential complexes
- ☑ Offices
- ☑ Shopping centres
- ☑ Hospitality / Tourism
- ☑ Healthcare centres
- ☑ Industrial facilities

# HERZ Smartcontrol

## Technical data

| | |
|---|---|
| Mixing valve control: | 3-point-PID |
| Pump control: | 2-point (on/off) |
| Nominal voltage: | 230 V |
| Nominal frequency: | 50 Hz |
| Control output: | Semiconductor relay, 1 (1), A-, 250 V~ |
| Power consumption in operation: | max. 3,5 W |
| Power consumption in standby: | max. 0,5 W |
| Operating time of motor: | 120 s / 90 ° |
| Position accuracy: | ± 5 % |

## Components

### USB connection

A USB connection is available for easy software updates, allowing the motor drive to be connected to a PC or laptop.

### Plug & Play

The compact motor drive features a built-in connection socket for the power cable, ensuring easy commissioning and time-saving maintenance.


### Display

The colour graphic display with 240 x 240 pixels presents detailed graphics and information about the system clearly. The language selection and QR code for the data sheet and additional information are displayed.

### Control buttons

The control buttons of HERZ Smartcontrol are located beneath the rotary knob, preventing unauthorized access to the drive settings.

### Button for manual operation

The manual operation of the motor drive is activated by pressing the button. This deactivates the control of the mixing valve and, if applicable, the circulation pump.

## HERZ PUMPFIX Smartcontrol+

To minimize installation effort in heating and cooling systems, HERZ offers the PUMPFIX connection group together with the HERZ Smartcontroller as a practical complete set under the name HERZ PUMPFIX Smartcontrol+. This system regulates the operation of the 3-way valve and the pump via temperature sensors, ensuring optimal settings at all times. HERZ PUMPFIX Smartcontrol+ is available with or without a pump and is compatible with circulation pumps with an installation length of 180 mm.

The set is ideal for weather-dependent control of heating and cooling systems, as well as for managing an independent or additional mixing circuit. In combination with a room temperature controller, HERZ PUMPFIX Smartcontrol+ can be controlled directly from the living space.

### Temperature sensors in harmony

The factory pre-installed temperature sensor in the ball valve of the connection group reliably measures the water temperature after the circulation pump and transmits changes directly to the Smartcontrol motor drive. The set also includes three additional temperature sensors: an outdoor temperature sensor, a sensor for the heat source, and a pre-installed return flow sensor. The return flow sensor measures the return temperature and enables the performance of each mixing circuit to be limited – ideal for systems with multiple circuits and a power-limited energy source. All sensors ensure precise and efficient regulation together.

### Technical data

| | |
|---|---|
| Nominal pressure: | max. 10 bar |
| Max. operating temperature: | 110 °C |
| Min. operating temperature: | 0 °C / water 0,5 °C |
| Short-term load: | 120 °C (< 15 seconds) |
| Distance between VL/RL: | 125 mm |
| Dimensions: | DN 25; DN 32 |

## Components

### Thermometer

Easily readable thermometers are mounted in the supply and return flow.

### Ball valve

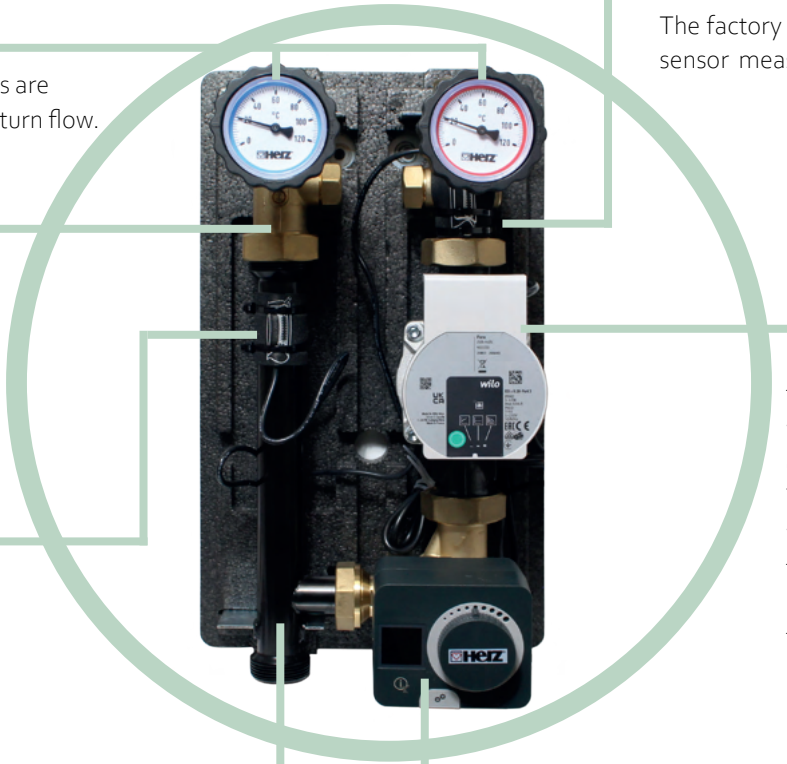
Mounted as an isolating element in the supply and return flow.

### Temperature sensor in the return flow

The factory-installed temperature sensor measures the return temperature and can limit the performance of each mixing circuit.

### Spacer with check valve

A backflow preventer is installed in the return line, which can be manually opened.




### Temperature sensor in the flow

The factory pre-assembled temperature sensor measures the inlet air temperature

### Circulation pump

HERZ PUMPFIX Smartcontrol+ can be ordered with or without a circulation pump, depending on requirements. The product is compatible with pumps with an installation length of 180 mm. The heating circuit pump is controlled by HERZ PUMPFIX Smartcontrol+.

### 3-way valve with Smartcontrol

The integrated 3-way valve is used for temperature control in combination with Smartcontrol+, which includes not only the motor drive but also weather-compensated control. The Smartcontrol+ regulates the operation of the 3-way valve and the pump via temperature sensors, ensuring optimal settings at all times.

1 4522 XX

## HERZ Euromix Smartcontrol

The HERZ Euromix Smartcontrol return temperature set is used in heating systems for industrial and household applications. It protects the boiler by ensuring an adequate return temperature.

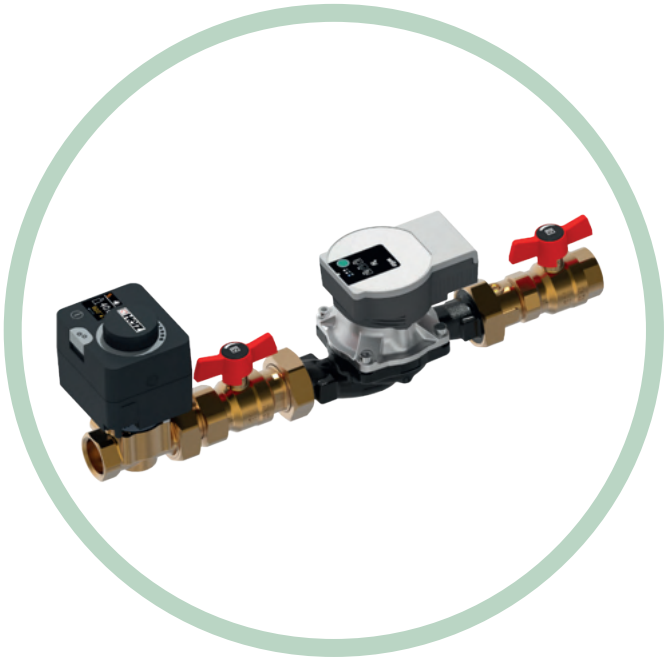
Maintaining an appropriate return temperature is crucial for two main reasons:

- Avoidance of condensation: It prevents condensation and extends the boiler's lifespan by ensuring that the return reaches the optimal temperature.
- Efficient operation: It guarantees the necessary operating temperature of the boiler for efficient heating system performance and proper filling of the buffer storage.

The advantage of the HERZ Euromix Smartcontrol return temperature set compared to other solutions lies in the integration of the HERZ Smartcontrol motor drive. Using the sensors included, it continuously monitors both the return temperature and the energy source. Based on the collected data, the system ensures optimal control and maintains a constant return temperature. The entire system also impresses with its simple "Plug & Play" installation.

### Technical data

| | |
|---|---|
| Operating pressure: | 10 bar (without pump) |
| Max. operating temperature: | 110 °C |
| Min. operating temperature: | 0 °C / water 0,5 °C |
| Short-term load: | 120 °C |
| Dimension: | DN 25 - DN 40 |



## Accessories for the PUMPFIX Family

With years of experience, HERZ knows that every heating system is unique and has its own individual requirements. With the right accessories, the pump group can be precisely tailored to meet these specific needs, ensuring that the system reaches its full performance potential.

1 4501 XX

### HERZ PUMPFIX Distributor

The HERZ PUMPFIX Distributor allows for the installation of 2 to 5 pump groups in heating systems with multiple heating circuits. Thanks to its well-thought-out design, pump groups and the distributor can be connected quickly and directly, saving valuable time.

1 4513 XX

### HERZ Hydraulic Switch

The HERZ Hydraulic Switch balances volume flows between the primary and secondary circuits, hydraulically decouples them, and thereby reduces the control effort.

1 4513 XX

### HERZ Pressure-free Distributor

If a pre-pressure pump is present in the primary circuit, the use of a HERZ Pressure-free Distributor is recommended. It ensures that no differential pressure exists between the primary supply and return flow.

1 4514 XX

### HERZ Overflow Valve

If there is a risk that the pump will operate against a closed heating circuit, the HERZ Overflow Valve protects the pump from overload and ensures the circulation in every operating condition.


# AUTOMATIC FILLING VALVE

## The 3-in-1 valve

The HERZ Automatic Filling Valve is an all-in-one solution for maintaining system pressure, safely isolating flow, and preventing backflow into the drinking water supply. The desired system pressure is pre-set on the pressure reducer. Once the set pressure is reached, the filling valve closes automatically, ensuring safe and smooth refilling by preventing excessive pressure buildup. The system pressure can be easily monitored on the manometer.

The integrated ball valve allows seamless isolation of the filling valve, while the check valve ensures separation between heating and drinking water. This enhances both convenience and safety. By combining three essential functions—pressure reduction, isolation, and backflow prevention—into a single unit, the HERZ Automatic filling valve simplifies installation and increases system reliability.

**Top application areas**

- ☑ Residential complexes
- ☑ Shopping centres
- ☑ Offices
- ☑ Hospitality / Tourism
- ☑ Healthcare centres
- ☑ Single & multi-family homes
- ☑ Industrial facilities

1 4216 XX

# HERZ Automatic filling valve

**Technical data**

| | |
|---|---|
| Dimension: | DN 15 |
| Max. inlet pressure: | 16 bar |
| Outlet pressure range: | 1,5 - 6 bar |
| Medium temperature range: | 0,5 - 70 °C |
| Manometer connection: | 1/4" F |
| Manometer scale: | 0 - 10 bar |
| Connections: | MT |

## Components

### Pressure reducer with manometer

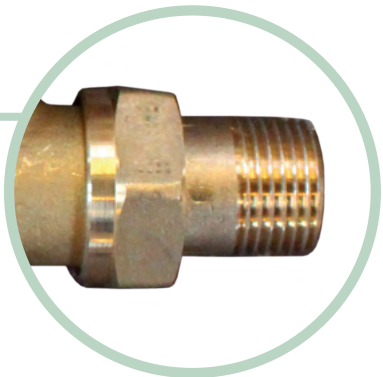
The HERZ Automatic Filling Valve features a precisely functioning pressure reducer, which is preset to 1.5 bar and can easily be adjusted between 1.5 - 6 bar using the red rotary knob before installation. The manometer can be flexibly mounted on either side of the valve, thanks to the two available 1/4" connections, allowing for precise monitoring of the system pressure.

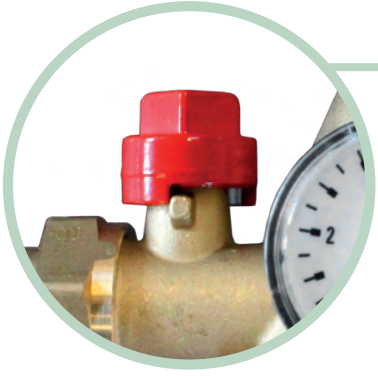
### Filter

The HERZ Automatic Filling Valve features a seal with an integrated filter at the inlet, providing optimal protection for the valve.

### Freely rotating nut

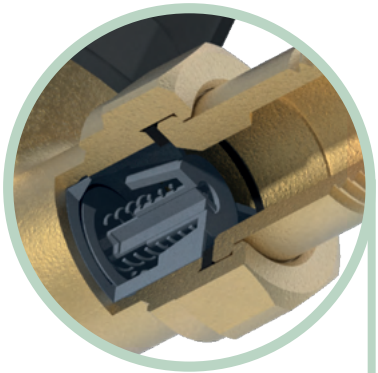
The HERZ Automatic Filling Valve is equipped with a freely rotating nut, which allows for easy maintenance and disconnection of the valve during servicing.





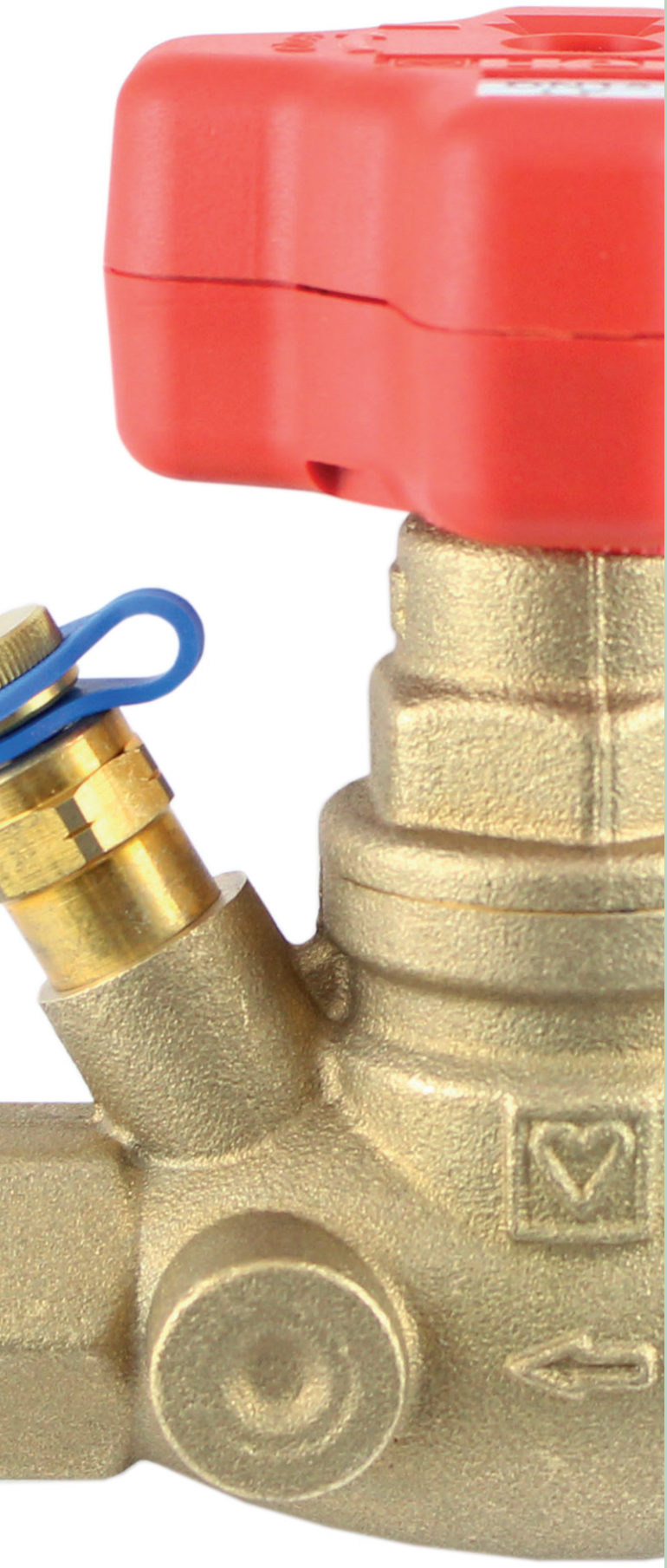
### Ball valve

The ball valve is equipped with an integrated handle, which requires a 14-mm wrench for operation. This design ensures safety by limiting access to individuals who have the appropriate tools, thus preventing accidental or unauthorized adjustments.



### Backflow preventer

The built-in backflow preventer separates heating water from the drinking water system to ensure water quality.



# COMMIS-SIONING VALVE

## Everything perfectly regulated

Water always takes the path of least resistance. Therefore, it requires support or regulation through system components to find the desired path. This is where HERZ Commissioning Valves come into play. Ideally, they are used per branch to enable precise control of the flow of heating or cooling medium in individual branches. This creates the necessary resistance for the water in each branch, ensuring that all consumers in the system receive the required energy supply.

HERZ offers a variety of commissioning valves, both for heating and cooling systems as well as for drinking water systems. HERZ provides a wide range of commissioning valves, from straight-seat valves with differential pressure measurement to commissioning valves with measuring inserts and impulse pipe connections in an angled-seat design, with the option to choose between rising and non-rising spindles. The HERZ Commissioning Valves are available from DN 15 to DN 500.

**Top application areas**

- ☑ Offices
- ☑ Residential complexes
- ☑ Hospitality / Tourism
- ☑ Healthcare centres
- ☑ Shopping centres
- ☑ Industrial facilities
- ☑ Single & multi-family homes

## HERZ Commissioning Valves in inclined seat form (DN 15 - DN 500)

4017 M

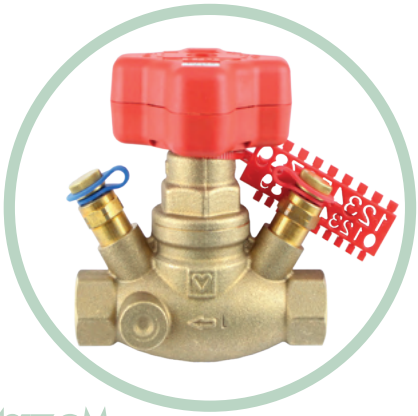
4017 ML

4218/4220

### Technical data

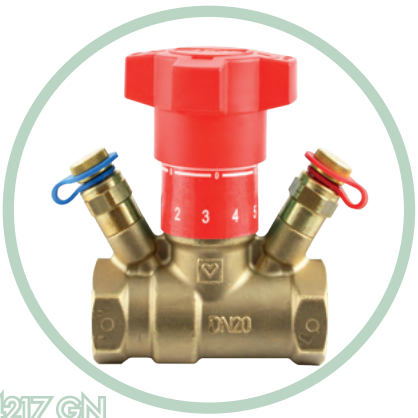
- Max. operating temperature: 130 °C (up to DN 32), 110 °C (from DN 40)
- Max. operating pressure: 16 bar / 20 bar /25 bar
- Body:
  - DN 15 - DN 50, screwed, made of dezincification-resistant brass
  - DN 350 - DN 500, flanged, made of spheroidal graphite iron
- Faster commissioning – no need to re-enter settings in the measuring computer
- Ergonomic handwheel with digital display of the setting; hidden locking of the preset
- Easily accessible measurement connections on the handwheel side
- Triple O-ring seal for maintenance-free operation and long service life
- Insulation shells and extended test points available
- Non-rising spindle
- Built-in integral orifice for accurate measurement

## HERZ STRÖMAX Commissioning Valves in straight-seat design (DN 15 - DN 300)



4217 GM

4218 GF




4217 GN

### Technical data

- Max. operating temperature: 130 °C (up to DN 32), 110 °C (from DN 40)
- Max. operating pressure: 16 bar / 25 bar
- Body:
  - DN 15 - DN 80, screwed, made of dezincification-resistant brass
  - DN 25 - DN 300, flanged, made of grey cast iron
- High flow capacity, linear characteristic curve
- Preset locking hidden under the fastening screw, optionally hidden under a seal
- Easily accessible measurement connections on the handwheel side
- Double O-ring seal for maintenance-free operation and long service life
- Non-rising spindle
- Ergonomic handwheel with digital display of the setting


# DIFFERENTIAL PRESSURE CONTROL VALVES

## For efficient heating and cooling through hydraulic balancing

Differential pressure control valves control the pressure difference between the supply and return of a system by adjusting the flow of heating or cooling medium in a plant to the correct pressure. When a thermostatic valve is closed on a radiator, there is no resistance in the system, causing other parts of the system to receive more flow. The differential pressure control valve automatically responds to these changes, opening or closing depending on the system situation. By automatically adjusting the differential pressure and thus the flow within the system, over- or under-supply of system components is prevented.

By using differential pressure control valves and ensuring hydraulic balancing, energy consumption in heating and cooling systems can be significantly reduced.

HERZ offers a wide range of dynamic differential pressure control valves. These include models with an adjustable differential pressure range, those with a fixed differential pressure setpoint, as well as versions with threaded connections for actuators.

**Top application areas**

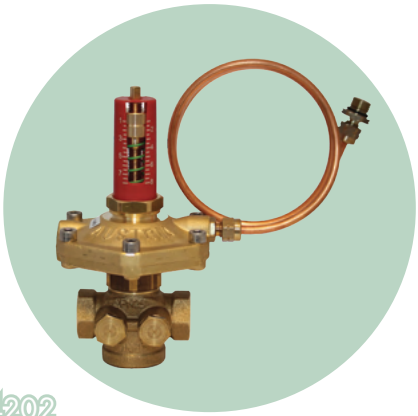
- Offices
- Residential complexes
- Hospitality / Tourism
- Healthcare centres
- Shopping centres
- Industrial facilities
- Single & multi-family homes

## HERZ Differential Pressure Control Valves with adjustable setpoint

HERZ Differential Pressure Control Valves with adjustable setpoint can be easily adjusted to the desired or required setpoint with simple operation. All differential pressure controllers are supplied with the impulse pipe.

4002

4007 F

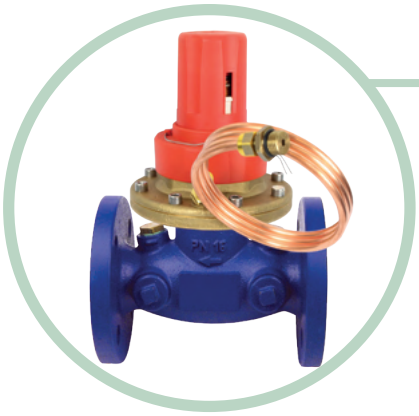


4202

### Technical data

- Max. operating temperature: 130 °C (up to DN 32), 110 °C (from DN 40)
- Max. operating pressure bei
  - Internal thread or flange: 16 bar
  - Male thread: 25 bar
- Simple, easy-to-read preset
- Screwed DN 15 - DN 50
- Flanged DN 25 - DN 200
- Compact, efficient valve with pressure relief
- Adjustment range between 5 - 150 kPa

## HERZ Differential Pressure Control Valves with fixed setpoint



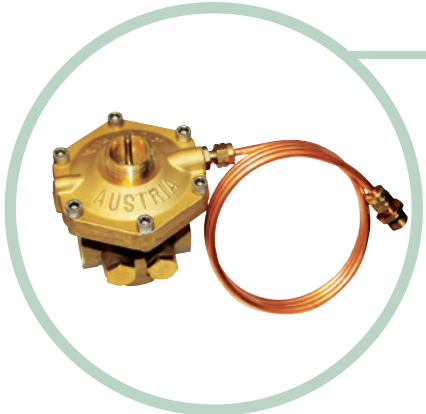
4007 F FIX

### HERZ Differential Pressure Control Valve FIX

The fixed setpoint of 23 kPa significantly simplifies installation and commissioning, as no additional fine adjustment is required.

#### Technical data

- Max. operating temperature: 130 °C (up to DN 32), 110 °C (from DN 40)
- Max. operating pressure: 16 bar / 25 bar
- Available in screwed or flanged versions from DN 15 to DN 80




4002 FIX TS

### HERZ Differential Pressure Control Valve FIX TS

If the differential pressure control valve is to be used as a zone valve or if limiting the flow from outside the circuit is desired, nothing works better than the HERZ Differential Pressure Control Valve FIX TS. The product can be equipped with an actuator to function as a zone valve or to control the flow through the circuit.

#### Technical data

- Max. operating temperature: 130 °C (up to DN 32), 110 °C (from DN 40)
- Max. operating pressure: 16 bar / 25 bar
- Fixed setpoint of 23 kPa or 50 kPa
- Available in screwed versions from DN 15 to DN 50


# DISTRICT HEATING VALVES

## For temperatures from 2 °C up to 150 °C and pressures up to 25 bar

District heating valves are installed in heat exchange stations on the primary side of the district heating network. The advantage is that the application range is ensured for temperatures from 2 °C up to 150 °C and pressures up to 25 bar. Therefore HERZ District Heating Valves can also be used for distict cooling systems. This is guaranteed by special seals made of EPDM (Ethylene-Propylene-Diene Rubber). The installation dimensions, adapted to the market, allow for easy integration into existing systems.

From differential pressure control valves and 2-way valves to combi valve pressure independent control valves: HERZ offers district heating valves in both screwed and flanged versions. Initially, the valves will be available in sizes DN 15 to DN 100.

**Top application areas**

- ☑ Offices
- ☑ Residential complexes
- ☑ Single & multi-family homes
- ☑ Hospitality / Tourism
- ☑ Healthcare centres
- ☑ Shopping centres
- ☑ Industrial facilities

## D H406 XX

## HERZ Combi Valve - Pressure Independent Control Valves

The combination valves are designed for installation on the primary side of district heating exchange stations. The pressure-independent control and regulating valve is a combination of a control valve and a differential pressure control valve. The desired flow is set by turning the valve spindle, which determines the maximum stroke of the control valve. Settings between 20% and 80% of the nominal flow are recommended.

**Technical data**

- Max. operating pressure: 25 bar (bis DN 65) / 16 bar (ab DN 80)
- Max. differential pressure: 20 bar (up to DN 25, screwed; up to DN 65 flanged) - 16 bar (from DN 32, screwed) - 15 bar (from DN 80, flanged)

## D H035 XX

## HERZ 2-way-valve

The pressure-relieved 2-way valve is primarily used for regulating the volume flow in district heating and HVAC systems. It can also be used to open and close pipelines. Water can be used as the flow medium within a temperature range of 2 °C to 150 °C. The pressure-relieved 2-way valve can be applied in nearly all heating, ventilation, and air conditioning systems, as well as in industrial and technological processes. The valve characteristic is equal percentage.

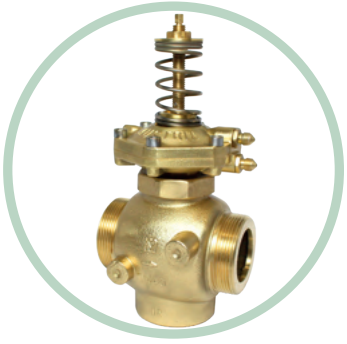
**Technical data**

- Max. operating pressure: 25 bar (up to DN 65) / 16 bar (from DN 80)
- Max. differential pressure: 2 bar
- Temperature range: 2 - 150 °C

## D H402 XX / D H407 XX

## HERZ Differential pressure control valve

HERZ differential pressure control valves are used on the primary side of district heating exchange stations to ensure a constant differential pressure across the control range in the flow or return. The differential pressure contoller is a straight-through design and operates without auxiliary energy. The desired differential pressure setpoint can be adjusted between 50 kPa and 150 kPa. The set value is readable using the adjustment diagram. The delivery includes two impulse lines, which must be connected in the flow and return.



**Technical data**

- Max. operating pressure: 25 bar (up to DN 65) / 16 bar (from DN 80)
- Max. differential pressure: 20 bar (up to DN 65) / 15 bar (from DN 80)
- Differential pressure setpoint: 50 - 150 kPa

# COMBI VALVE - PRESSURE INDEPENDENT CONTROL VALVE

## State of the art

The HERZ Combi Valve - Pressure Independent Control Valve is a fully pressure-relieved automatic control and regulation valve that combines multiple functionalities in one product. It brings together a control valve, a regulating valve, a differential pressure control valve and an isolation valve to save on both costs and space. The ease of operation with the ability to set the desired flow as a percentage of the maximum flow also reduces commissioning time.

The combi valve can be used in all pump-operated heating and cooling systems. External pressure fluctuations are compensated within the differential pressure range, making the combi valve pressure-independent. The valve automatically limits the volume flow in the selected system section to the set value, adjusting for all pressure fluctuations. Therefore, no measurements are required, and the control is effective under all operating conditions.

With the appropriate actuator, nothing stands in the way of successful hydraulic balancing.

**Top application areas**

- ☑ Offices
- ☑ Shopping centres
- ☑ Hospitality / Tourism
- ☑ Healthcare centres
- ☑ Residential complexes
- ☑ Single & multi-family homes
- ☑ Industrial facilities

## 4006 / 4206 Smart

The geometry of the housing, cast from dezincification-resistant brass, has been optimized for both water flow and control precision. At higher flow rates, this results in minimal additional pressure losses within the housing, and the response pressure is maintained at a low level. At the same time, favourable casting conditions are achieved, ensuring high-quality housing.


### Technical data

- Max. operating pressure: 25 bar
- Max. differential pressure:
  4 bar (DN 15 LF, DN 15 MF)
  6 bar (DN 15 SF - DN 20 SF, DN 15 HF - DN 20 HF)
- Easy presetting in % of the maximum flow rate
- Low and stable response pressure across the entire range
- Pressure relief for precise control and small actuator forces
- DN 15 - DN 20, MT and FT, compact design, short lengths


## 4406

HERZ Combi Valve - Pressure Independent Control Valve with external membrane for heat exchangers with high capacity.

### Technical data

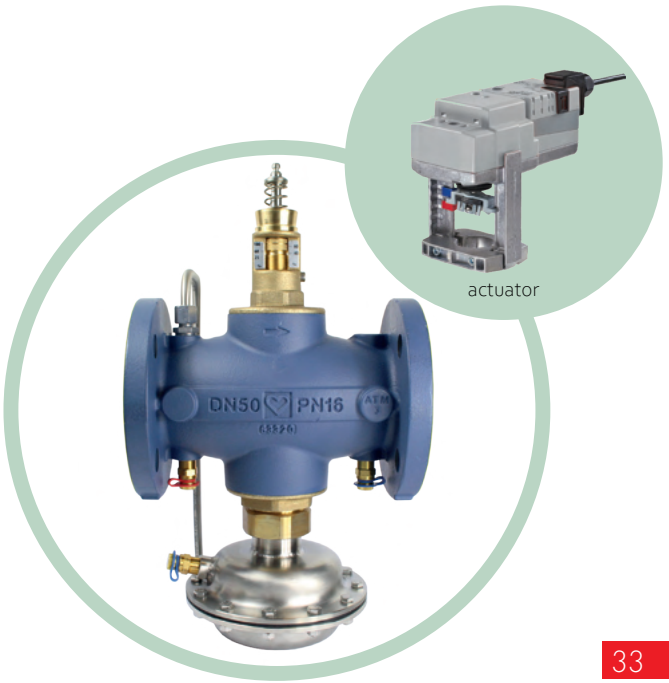
- Max. operating pressure: 25 bar
- Max. differential pressure: 6 bar
- Flow capacity: up to 12.500 l/h
- Simple presetting in % of maximum flow rate
- Stable setpoint pressure across the entire model range
- Pressure relief allows the use of small actuators up to DN 50
- DN 25 - DN 50, external thread, short construction lengths

## F 4006

HERZ is one of the few leading manufacturers that develop and produce large combi valves - pressure independent control valves with flange connections. The thoughtful design with a robust diaphragm (420 cm² diaphragm surface for DN 125 - DN 250), generously sized and precisely machined control components, and full pressure relief ensure accurate flow regulation and stable setpoints.

### Technical data

- Max. operating pressure: 16 bar
- Max. differential pressure: 4 bar
- Stable setpoint pressure across the entire model range
- Models from DN 50 to DN 250 cover a flow range from 3.75 to 410 m³/h
- Complete pressure relief
- Stepless pre-setting of the desired flow rate
- Three measurement points for direct measurement of the actual flow rate




# ZONE VALVE

## Compact 3-way ball valve

HERZ Zone Valves are used in heating and cooling systems as zone management components. The main advantage of the ball valve is the automatic control of the valve, which is powered by the motor drive. This enables the valve's automatic switching function (from one zone to another), which is controlled by a system controller.

The HERZ Zone Valve has a mounted motor drive that switches the 90° position in just 12 seconds. The fast switching of the motor actuator means a quick response to system requirements and energy-efficient operation of the entire system.

**Top application areas**

- Residential complexes
- Hospitality / Tourism
- Offices
- Shopping centres
- Single & multi-family homes
- Industrial facilities
- Healthcare centres

## HERZ Zone Valve

The HERZ Zone Valve also impresses with its versatility in different applications of modern building technology: In **heat pump systems**, the HERZ Zone Valve enables the targeted switching of the flow between hot water preparation and heating circuit, ensuring efficient operation.

In **solar collector systems**, it regulates the flow from the west and east sides of the roof to optimally use solar energy.

In **hot water preparation**, the HERZ Zone Valve directs the energy flow from the solar system and heat pump.

In **combined systems** of solid fuel boilers and oil boilers, the HERZ Zone Valve supports a smooth transition by optimally adjusting the flow.

In the use of **solid fuel boiler systems**, the HERZ Zone Valve directs the flow between hot water preparation and the heating circuit.

The motor drive of the HERZ Zone Valve is installed with a special quick-mount module on the valve, allowing for easy assembly and disassembly. HERZ Zone Valve is available in dimensions DN20, DN25, and DN32.

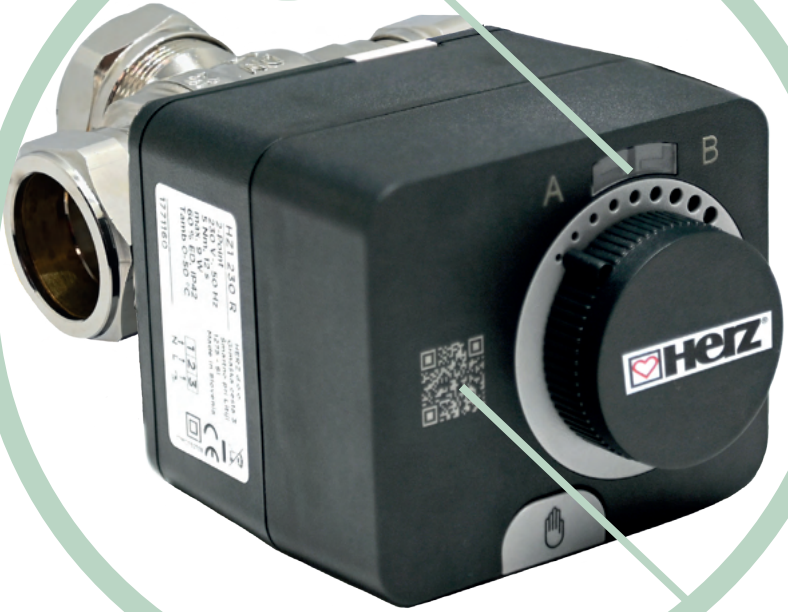
### Technical data - motor drive

| | |
|---|---|
| Operating mode: | 2-point |
| Nominal voltage range: | 230 V or 24 V AC/DC |
| Motor run time: | 12s / 90 ° |
| AUX switch: | with or without auxiliary switch |

### Technical data - ball valve

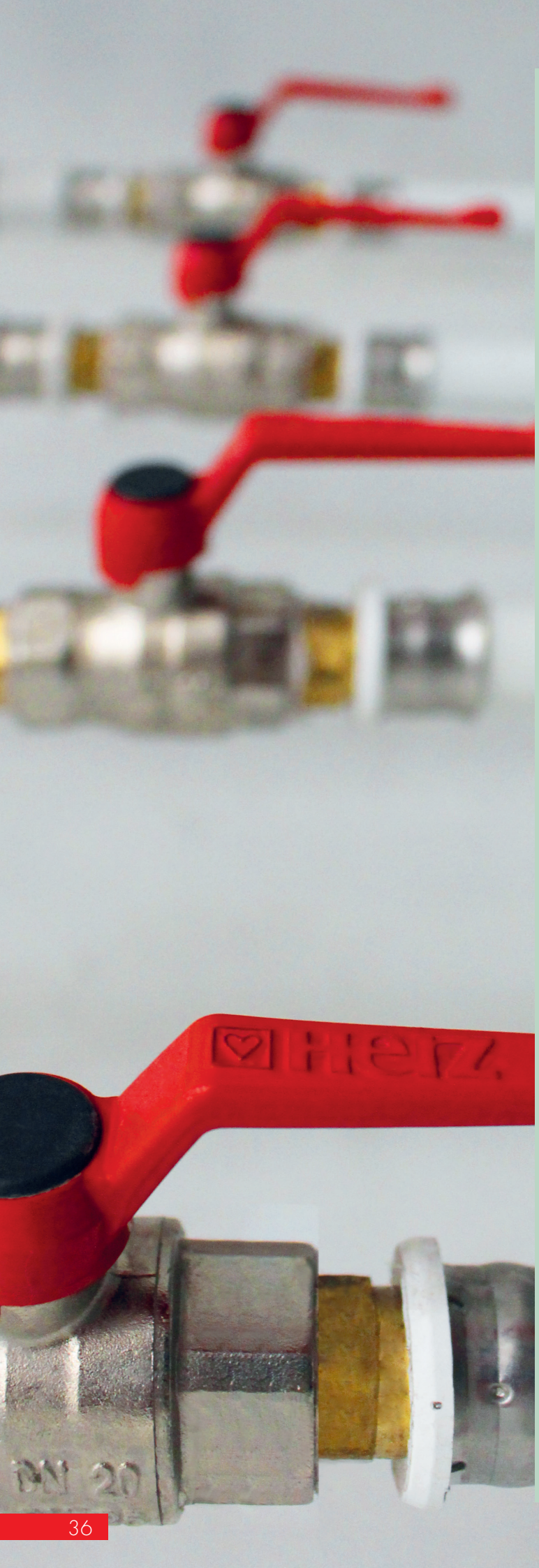
| | |
|---|---|
| Max. operating temperature: | 110 °C |
| Nominal pressure: | 10 bar |
| Leak rate: | 0 % |
| Operating stroke angle (rotation): | 90 ° |
| Opening torque (at 10 bar): | ≤ 5 Nm |
| Side connections: | |
| - Compression fittings (Cu 22 / 28 / 35) | |
| - Male thread with flat sealing according to ISO 228-1 | |

**Switching in 12 seconds**





Now with a QR code directly on the product, allowing easy access to the operating manual, datasheet, and other information at any time.




# BALL VALVES

## The key element of any system

HERZ has been producing ball valves for various applications in domestic and industrial systems for many years. HERZ ball valves are manufactured using the most modern machines, ensuring high precision, in the production facility in Slovenia, and are made from high-quality brass.

In addition to the long-standing standard series MODUL and Heavy, the Classic valve series has been added to the product range. This new generation of ball valves is characterised by a compact and lightweight design, complementing the extensive product range for hydraulic systems of pipeline installations. The new design of the Classic ball valves includes several improvements that further enhance the quality of HERZ products and enable easy and quick installation.

Among the innovations, HERZ has also introduced the HERZ Multiport ball valve which offers versatile connection options thanks to its innovative design.

**Top application areas**

- ☑ Residential complexes
- ☑ Healthcare centres
- ☑ Shopping centres
- ☑ Industrial facilities
- ☑ Hospitality / Tourism
- ☑ Offices
- ☑ Single & multi-family homes

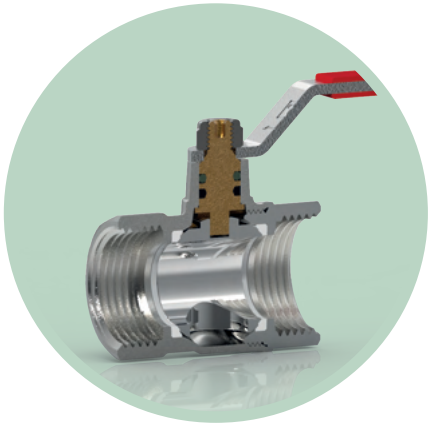
## 1 2201 / 2208 XX

## HERZ Ball Valve Classic

The HERZ Ball Valve Classic features two O-rings integrated into the spindle, made from EPDM and VITON materials, providing double protection and additional resistance to various media and system conditions. The ball in the valve has an additional hole at the bottom, preventing stagnation of water between the housing and the ball, thereby allowing a constant flow of the medium through the valve. The Ball Valve Classic is available in three versions: female-female thread, female-male thread, and freely rotating nut connection - female thread.

**Technical data**

| | |
|---|---|
| ☑ Max. operating pressure: | 25 bar |
| ☑ Max. operating temperature: | 95 °C |
| ☑ Dimensions: | DN 15 - DN 50 |



## 1 2416 / 2417 XX

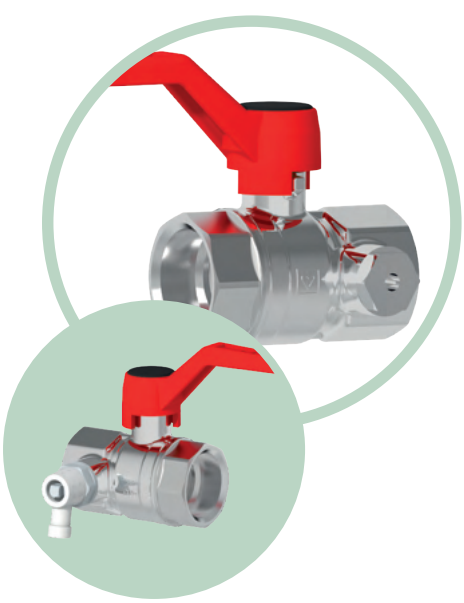
## HERZ Multiport

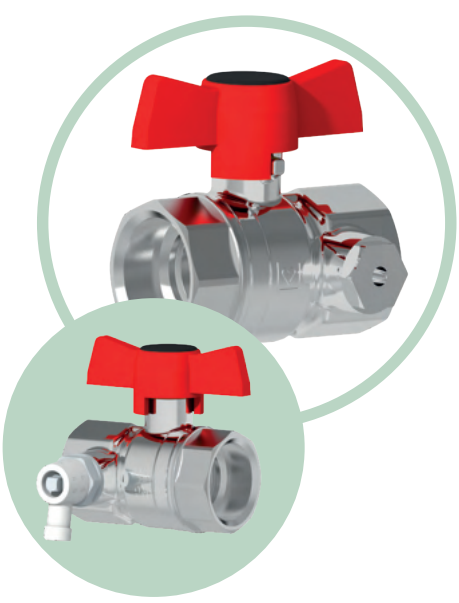
The special design of the HERZ Multiport with two multifunctional side connections opens up a wide range of applications. These enable the connection of various components such as drain valves, thermometers or pressure gauges. Moreover, the designs are available with either a lever or T- handle to ensure user-specific handling.

This flexibility makes the HERZ Multiport a versatile component, ideal for handling complex system requirements while ensuring efficient operation and easy maintenance.

**Technical data**

| | |
|---|---|
| ☑ Max. operating pressure: | 25 bar |
| ☑ Max. operating temperature: | 110 °C |
| ☑ Dimensions: | DN 15 - DN 50 lever handle<br>DN 15 - 32 T-handle |
| ☑ Side connections: | FT 1/2 "or 1/4" |





# Living

A home is a feeling of warmth, security and comfort. With our building technology solutions, we bring this feeling to every corner of your living space. From precise thermostatic heads and innovative apartment transfer stations to reliable valves and smart room

temperature control - HERZ offers tailor-made solutions that combine functionality, energy savings and modern design. Because with us, technology comes from the heart - for your home with HERZ.

# with HERZ


# HERZ DE LUXE

## Competence meets design

HERZ is known for its high-quality and aesthetically pleasing thermostatic heads that combine functionality and design. With the HERZ DE LUXE thermostatic heads, heating systems can be not only technically optimized but also stylishly integrated into the architectural concept of any room. Available in elegant designs and 18 different colours, this series offers a variety of constructions and connection options in proven HERZ quality. This extensive selection allows seamless integration into any heating system without compromising on design or functionality.

In addition to the HERZ DE LUXE thermostatic heads, HERZ also offers the matching connection systems and thermostat valves in the same colour shades. Whether it's flow and return valves, angle or straight designs or compression sets – the HERZ DE LUXE series covers every installation requirement.

**Top application areas**

- ☑ Hospitality / Tourism
- ☑ Single & multi-family homes
- ☑ Offices
- ☑ Residential complexes
- ☑ Shopping centres
- ☑ Healthcare centres
- ☑ Industrial facilities

S 9230 XX

## HERZ DE LUXE

HERZ DE LUXE thermostatic heads are equipped with three practical markings in addition to the standard settings, allowing for easy and precise adjustments:

- **Comfort setting (HERZ):**
  Corresponds to a room temperature of approximately 20 °C.
- **Frost protection (Snowflake):**
  Automatically opens the valve at around 8 °C ambient temperature to prevent the system from freezing.
- **Zero setting (o):**
  The thermostat valve will remain closed until approximately 0 °C.

### Technical data

| | |
|---|---|
| Setpoint range: | 0 - 30 °C |
| Connection thread: | M 28 x 1,5<br>M 30 x 1,5<br>snap-on attachment |
| Dimensions: | 56 x 90 mm |

S 9200 XX

## HERZ MINI DE LUXE

In addition to the standard sizes, HERZ offers a compact alternative with the HERZ MINI DE LUXE series of thermostatic heads. With a length of 7.5 cm and a diameter of 4.5 cm, they are among the smallest thermostatic heads with a hydro-sensor on the market. The compact thermostatic heads of the HERZ MINI DE LUXE series are available along with matching valves in a selection of exclusive colours: White, Chrome, Matte Black, and Vintage.

## HERZ DE LUXE Valves

The HERZ DE LUXE series consists of radiator thermostats, HERZ-TS-90 thermostat valves, return valves, connection systems, shut-off valves, as well as HERZ-3000 or TS-3000 connection fittings and sparge pipe valves VUA. The valves are available in various designs: straight valves, angle valves, reverse angle valves, and three-axis angle valves. All components feature specially treated, smooth surfaces.

### Technical data

| | |
|---|---|
| Max. operating temperature: | 120 °C |
| Max. operating pressure: | 10 bar |
| Connection thread: | M 28 x 1,5 / G 1/2" |

# HERZCULES

## Made to last forever

"Rugged and tough," the HERZCULES thermostatic head in its solid construction is the perfect solution for installation in all public areas. Wherever there is a risk of vandalism, theft, or unauthorized manipulation, the HERZCULES, with its robust design, is just what's needed, making it the ideal thermostatic head for buildings with public access.

The handwheel is made of fibreglass-reinforced plastic parts, and all control elements are integrated into the interior of the handwheel. Only a special tool can be used to mount or disassemble the thermostatic head. The durable construction of the components ensures maximum impact and breakage resistance. The anti-theft protection is integrated into the thermostatic head with two screws, eliminating the need for additional theft brackets.

But beneath its tough exterior, the HERZCULES hides an intelligent core – a highly sensitive liquid sensor that regulates room temperature.

**Top application areas**

- ☑ Offices
- ☑ Shopping centres
- ☑ Hospitality / Tourism
- ☑ Healthcare centres
- ☑ Industrial facilities
- ☑ Residential complexes
- ☑ Single & multi-family homes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Non-manipulable

High break resistance

Theft-proof

High impact resistance

Vandal-proof

For public facilities

## HERZCULES

HERZ presents two HERZCULES models that allow an external temperature reduction of 4 °C or 10 °C without losing the originally set target value. This can be easily done, for example, with the help of a coin. This function is useful when the temperature needs to be lowered temporarily. As a result, users save additional energy and increase the comfort of all residents.

The thermostatic head can be freely rotated to the left and right without a stop. This prevents "overturning" and ensures a long service life. The specially designed metallic fastening mechanism provides additional stability during installation.

The setpoint adjustment is also made using a special tool. Once set, the target temperature can no longer be changed from the outside, preventing unauthorized manipulation.

**Technical data**

| | |
|---|---|
| Setpoint range: | 8 - 26 °C |
| Connection thread: | M 28 x 1,5<br>M 30 x 1,5 |
| Dimensions: | 52 x 86 mm |

### HERZCULES saves 440 MWh of heating energy in the NhM

During the renovation of the heating system at the Natural History Museum in Vienna, numerous HERZCULES thermostatic heads demonstrated their strength. Thanks to their precision and efficiency, 440 megawatt-hours of heating energy were saved in the first heating season, in combination with HERZ valves, preventing 58 tons of $CO_2$ emissions.

# DYNAMIC THERMOSTATIC VALVES

## Precise control and automatic balancing

The HERZ Dynamic Thermostatic Valve TS-120-V-SMART combines the functions of a traditional thermostatic valve with a differential pressure control valve in a single housing. Thanks to the integrated differential pressure control valve, the dynamic thermostatic valve maintains a constant flow to the radiator despite changing pressure conditions. This ensures that each radiator receives the required amount of water. Pressure fluctuations caused by the opening or closing of other radiators in the system are automatically balanced. Neither system modifications nor system expansions require readjustment or changes to the settings of the dynamic thermostatic valve, which keeps the effort for hydraulic balancing low.

With a HERZ thermostatic head mounted, the necessary water volume is automatically regulated depending on the set temperature.

**Top application areas**

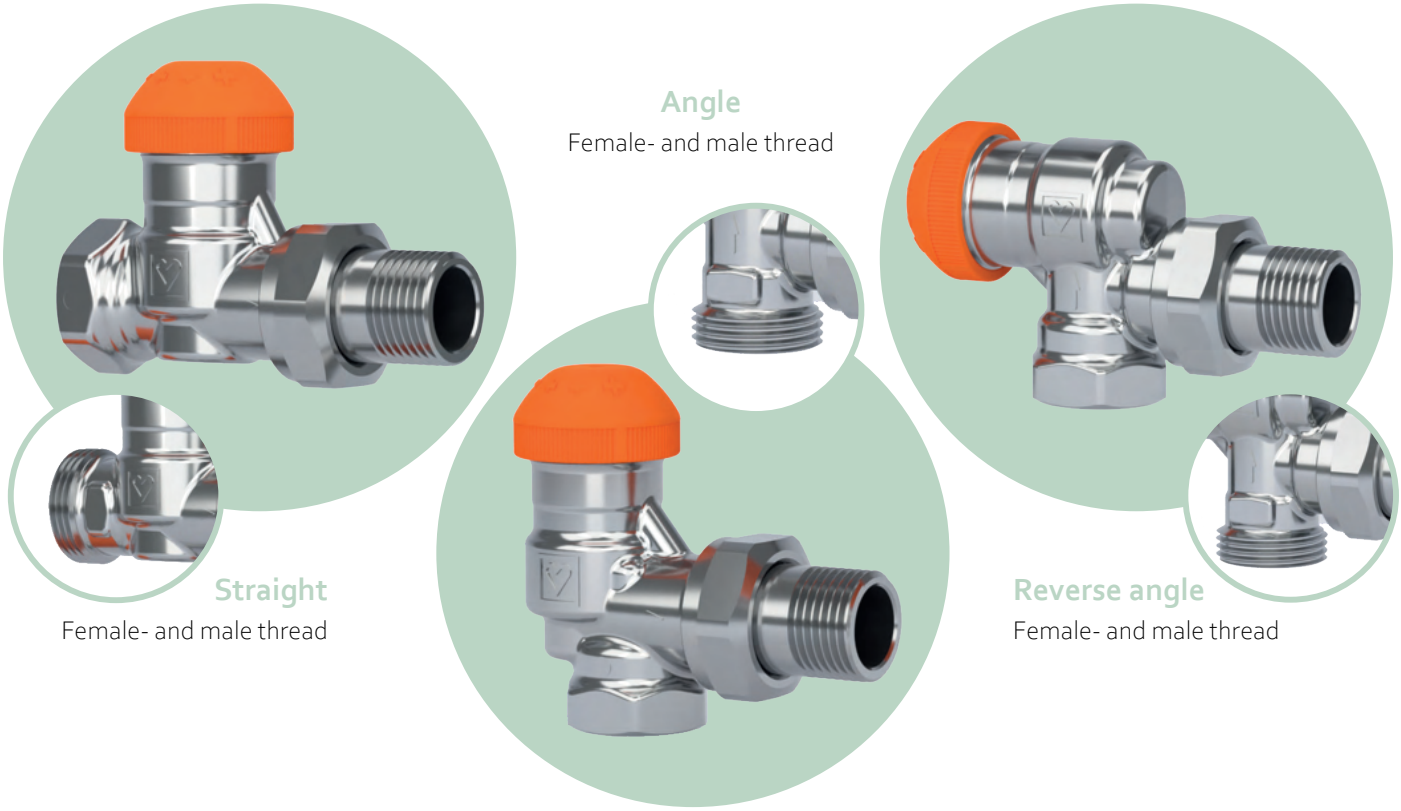
- ☑ Residential complexes
- ☑ Shopping centres
- ☑ Offices
- ☑ Healthcare centres
- ☑ Single & multi-family homes
- ☑ Industrial facilities
- ☑ Hospitality / Tourism

## HERZ Dynamic Thermostatic Valve

The HERZ Dynamic Thermostatic Valve TS-120-V-SMART is used for temperature control and automatic hydraulic balancing in two-pipe heating and cooling systems. The proven HERZ thermostatic valve insert, in combination with the HERZ thermostatic heads, provides highly efficient and reliable room temperature control. Precision, accuracy, and efficiency meet the high expectations for a HERZ thermostatic valve.

### Technical data

- Max. operating temperature: 120 °C
- Max. operating pressure: 10 bar
- Max. differential pressure: 60 kPa
- Controlled flow range: 10 l/h - 95 l/h
- Fully open, "I" setting: 120 l/h
- Dimension: DN 15
- Adjustment: stepless and readable
- Thermostatic head connection: M 28 x 1,5
- Radiator connection: 1/2" MT male thread (cone fitting to TS valve)
- Pipe connection:
  - 1/2" FT for threaded pipe and compression adapter
  - 3/4" MT cone-sealing for compression adapter



**Straight**
Female- and male thread

**Angle**
Female- and male thread

**Reverse angle**
Female- and male thread

## The functions at a glance

- Setting the desired flow rate
- Dynamic maintenance of the set flow rate at the radiator
- Automatic adjustment of pressure fluctuations via the integrated differential pressure control valve
- Acceptance of a thermostatic head
- Precise radiator power regulation in combination with a thermostatic head
- Continuous and accurate room temperature control
- Energy-efficient operation of the entire system under changing conditions
- No need for re-adjustment when system modifications are made

# HERZ THERMOSTATIC VALVE TS-98-V

## The easiest way to save costs

HERZ Thermostatic Valves are environmentally friendly and help reduce heating costs. By precisely regulating the HERZ Thermostatic Valves, the energy consumption of the heating system, and thus the heating costs, can be lowered. The HERZ-TS-98-V Valves are advantageous for water heating systems where hydraulic balancing via return valves is not possible or not desired.

HERZ offers a wide range of valves for all heating situations. From valves with stepless and concealed presetting (TS-90-V) to valves with readable presetting (TS-98-V) and press-fit connections, to valves with maximum flow for one-pipe and gravity systems (TS-E). In this catalog, we present the proven and most requested HERZ-TS-98-V valves.

**Top application areas**

- ☑ Residential complexes
- ☑ Shopping centres
- ☑ Offices
- ☑ Healthcare centres
- ☑ Single & multi-family homes
- ☑ Industrial facilities
- ☑ Hospitality / Tourism

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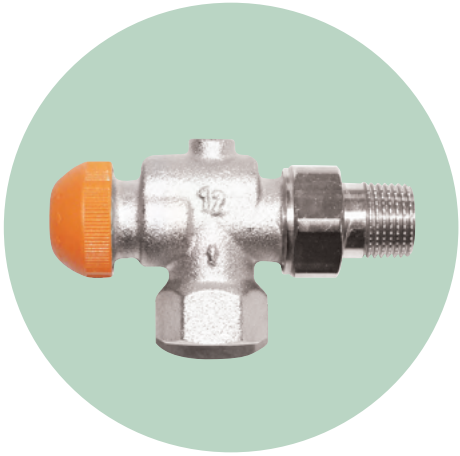
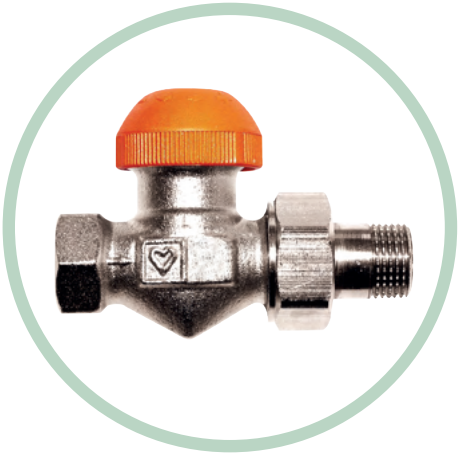
## HERZ-TS-98-V

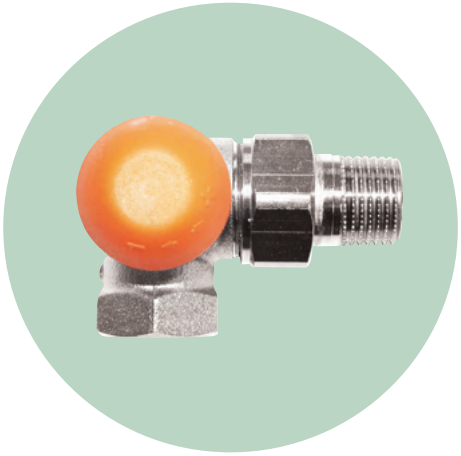
HERZ-TS-98-V Valves are steplessly presettable valves that can be easily adjusted to the required flow rate of the respective radiator before commissioning. This allows for significant savings in energy and heating costs. The HERZ-TS-98-V Valves are available in straight form, angle design, reverse angle design, and as a 3-way valve "AB" and "CD".

**Technical data**

- Max. operating temperature: 110 °C
- Max. operating pressure: 10 bar
- Dimensions: DN 15 - DN 25
- Adjustment: stepless and readable
- Adjustment range kv value: 0,05 - 0,81 m³/h
- Thermostatic head connection: M 28 x 1,5
- Pipe connection:
  - Universal model with special socket for threaded pipe and compression adapter
  - Male thread G 3/4 with cone







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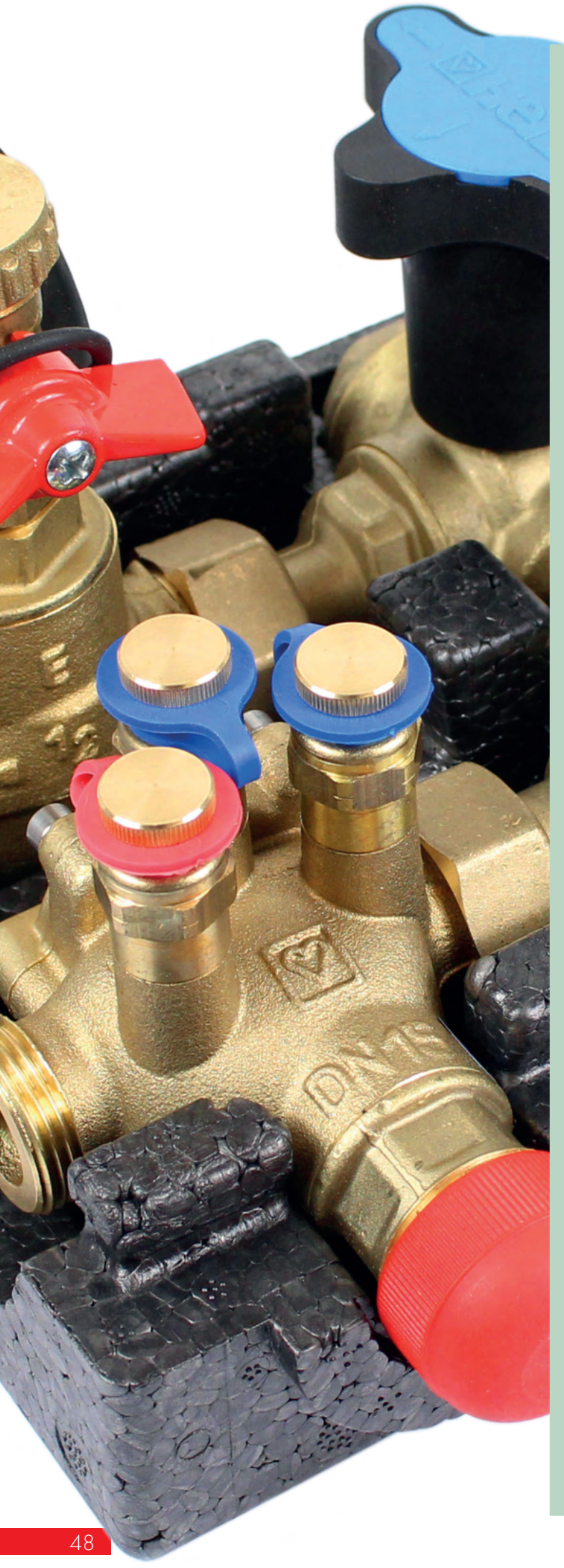
## HERZ-TS-98-V with press-fit connection

HERZ-TS-98-V Valves with press-fit connection are suitable for two-pipe heating systems with stainless steel and copper pipes and can be quickly connected to the pipe side using press tools. The minimum pressing force is 30 kN, and a press contour V is required for this. The minimum pipe wall thickness of 1 mm should not be undershot.

**Technical data**

- Max. operating temperature: 90 °C
- Max. operating pressure: 10 bar
- Dimension: DN 15
- Adjustment: stepless and readable
- Adjustment range kv value: 0,03 - 0,57 m³/h
- Thermostatic head connection: M 28 x 1,5



# HERZCON

## The international success model from Austria

Compact, easy to install and operate – HerzCON offers regulating, filling, flushing, backflushing, draining, isolation, and filtering in a compact form from a single source. As a pre-assembled direct connection, HerzCON ensures a reliable and quick connection between fan coils and the heating or cooling system. Additionally, it comes with a snap-on insulating box that is vapor-diffusion-tight.

It's no wonder that HerzCON is called the "heart of control technology." This all-rounder has already won hearts internationally, with tens of thousands of units in use across numerous countries, receiving nothing but compliments for its functions, quick and easy installation, and compact design.

The core product is the combi valve pressure independent control valve. A complete system unit has been developed around it, including a multifunctional ball valve block, vent valve, drain valve, and strainer. The backflushing process allows the mesh of the strainer to be cleaned without having to remove it from the valve. A simple procedure that saves time. The eight flow ranges offer a broad field of application.

**Top application areas**

- ☑ Offices
- ☑ Shopping centres
- ☑ Hospitality / Tourism
- ☑ Healthcare centres
- ☑ Industrial facilities
- ☑ Residential complexes
- ☑ Single & multi-family homes

## HerzCON

The international success model HerzCON is distinguished by its particularly compact design and easy access to all service functions as a direct connection. The integrated combi valve pressure independent control valve maintains a constant flow rate by adjusting pressure fluctuations, ensuring that all system components are always supplied with the required amount of energy.

The standard model has a distance of 65 mm between the supply and return for dimensions DN 15 - DN 20. To allow mounting systems with a pipe distance of 80 mm to use the international success model HerzCON without additional effort, HERZ offers an additional 80 mm distance between the supply and return for dimensions DN 15 - DN 20.

### Technical data

- Max. operating pressure: 25 bar
- Max. differential pressure: 4 bar (DN 15 LF, DN 15 MF)
  6 bar (DN 15 - 32)
- Min. operating temperature: -20 °C
- Max. operating temperature: 130 °C
- Models in DN 15 to DN 32 cover a flow range from 20 - 6,000 l/h
- Vapor-diffusion-tight or fire-resistant insulation shell for DN 15 - DN 20
- Third measuring point for direct flow measurement
- Backflushing of the strainer basket without having to remove it
- Compact design, all components easily accessible

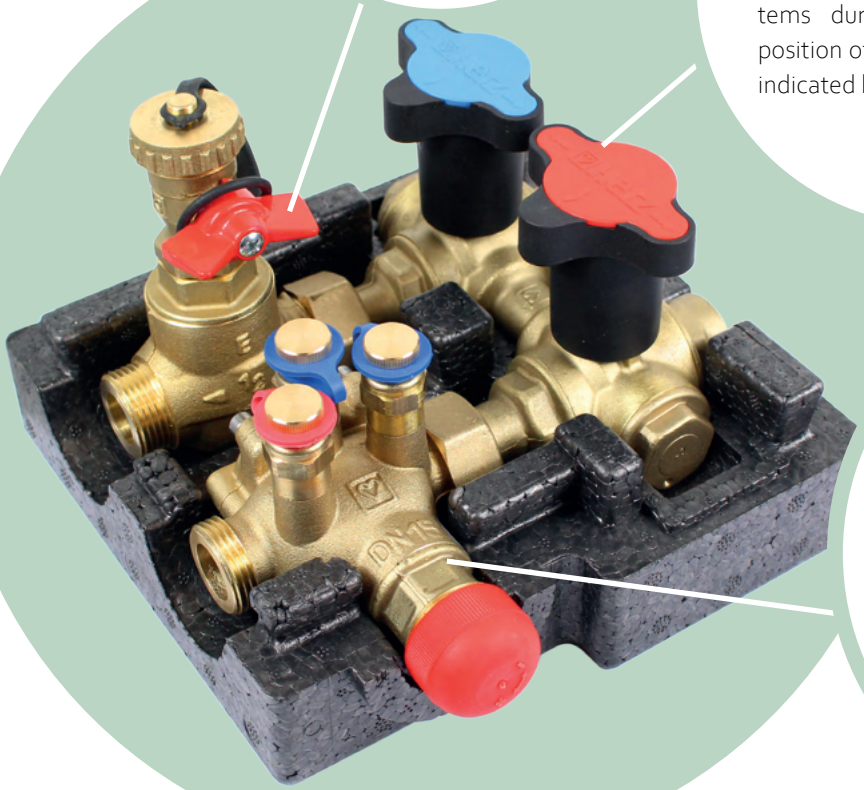
## Components

### Draining Valve

The integrated drain valve in the strainer allows for backflushing of the system without removing the strainer-basket. This saves a significant amount of work time for the installer.

### Multifunctional ball valve block

The T-drilling of the ball with full passage allows for draining or filling entire systems or partial systems during maintenance. The position of the ball valves is clearly indicated by the ball valve handles.



### Combi Valve - Pressure Independent Control Valve

The integrated combi valve - pressure independent control valve keeps the flow rate constant by adjusting pressure fluctuations, ensuring that all system components are always supplied with the required amount of energy.

# HERZ CLEVER & SMART

## Heating and cooling made intelligent

Consisting of a control box, a room controller, and additional LED controllers or room sensors, HERZ clever&smart can be individually assembled. It is available for either heating only or heating and cooling systems. Whether wired or wireless, the HERZ clever&smart family offers the perfect and smart solution for all comfort lovers.

The control box is not just a simple signal distributor, but a heating and cooling controller. The supply temperature can be weather-controlled and adjusted based on the dew point. The room controller Clima, equipped with a colour touch display, measures both the temperature and the relative humidity. It also serves for the configuration and operation of the system. The LED controller Clima additionally measures and displays the air quality. In addition to the 2 main operating modes (heating and cooling), HERZ clever&smart offers 4 smart technology modules: Normal, Turbo, Eco, and Off. This allows users to easily switch between pre-set modules for heating and cooling or adjust the room temperature to daily routines by specifying a time window on a selected day. The entire system can also be paired with a smartphone and controlled via WiFi, if desired.

**Top application areas**

- ☑ Single & multi-family homes
- ☑ Residential complexes
- ☑ Offices

## 3 F810 12

## Control Box Clima for heating and cooling

**Technical data**

- Status indicators using 14 LEDs
- 8 zones, each with up to 4 actuators adjustable
- Outputs for pump and mixer, heating and cooling demand
- Mixer control weather-driven or dew point-driven
- Control of up to 16 rooms in 1 residential unit
- Multiple residential units can share data


## 3 F810 21-24

## Room Controller and Room Controller Clima

**Technical data**

- For configuration and operation of the system
- Versions for heating or for heating and cooling with humidity detection
- Dew point-driven supply temperature control
- Available with or without Wi-Fi module
- Colored touch display with a glass surface for easy operation
- Dimensions: 95 x 75 x 19 mm


## 3 F810 31-34

## LEDcontroller and LEDcontroller Clima

**Technical data**

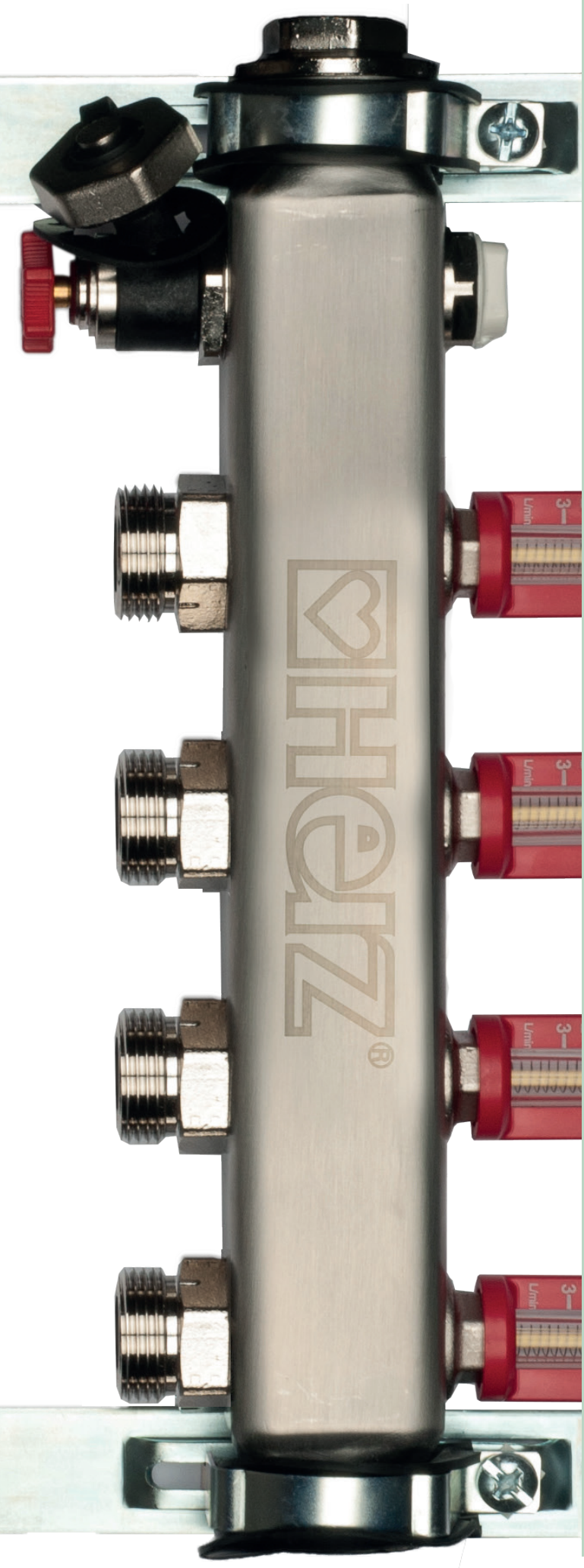
- In addition to temperature measurement, the Klima version also captures relative humidity, air quality, and $CO_2$ levels
- Color display of air quality (IAQ) via LED
- Display and adjustment of temperature via the touch display
- Communication via WiFi with Room Controller Clima WiFi
- Dew point-driven supply temperature control

## 3 F810 41-44

## Room Sensor and Room Sensor Clima

**Technical data**

- Measurement of temperature and relative humidity
- Versions for heating or for heating and cooling with humidity detection
- Available with or without Wi-Fi module
- Dimensions: 55 x 55 mm
- Also available in a slim version (21 x 43 mm) for common Italian switch programs




# STAINLESS STEEL DISTRIBUTOR

## For underfloor heating, surface cooling, and radiator connections

The HERZ Stainless Steel Distributor was specifically developed for the demands of modern underfloor heating and cooling systems. A seamlessly drawn stainless steel special profile, precisely processed with state-of-the-art equipment, guarantees the highest functionality and quality. It is suitable for floor, wall, and ceiling heating and cooling systems, as well as in combination with radiators. The HERZ Stainless Steel Distributor is ideal for both new constructions and renovations.

HERZ flowmeters, available in versions up to 3 l/min and up to 6 l/min, ensure excellent controllability when combined with HERZ thermostatic valves. When paired with HERZ room temperature controls, optimal comfort for the end user is guaranteed.

**Top application areas**

- ☑ Residential complexes
- ☑ Single & multi-family homes
- ☑ Shopping centres
- ☑ Offices
- ☑ Hospitality / Tourism
- ☑ Healthcare centres
- ☑ Industrial facilities

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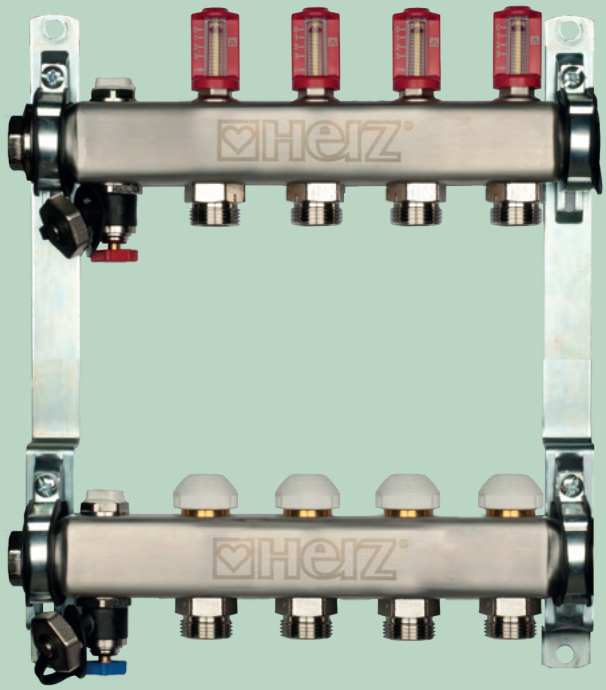
# HERZ Stainless Steel Distributor



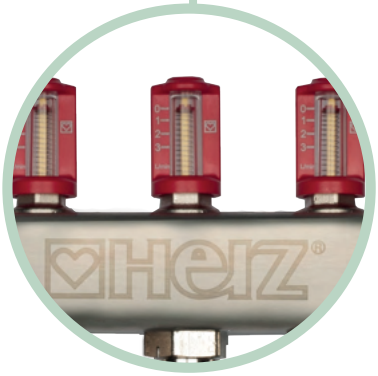
## Technical data

| | |
|---|---|
| Max. operating pressure without flowmeter: | 10 bar |
| Max. operating temperature without flowmeter: | 110 °C |
| Max. operating pressure with flowmeter: | 6 bar |
| Max. operating temperature with flowmeter: | 70 °C |
| Min. operating temperature: | 2 °C |

- Low installation height of 66 mm
- Designed for 3 to 16 heating circuits
- Left or right connection with 1" FT
- Colour-coded marking of supply and return
- With integrated air vent and drain valve

## Components

### HERZ Flowmeter



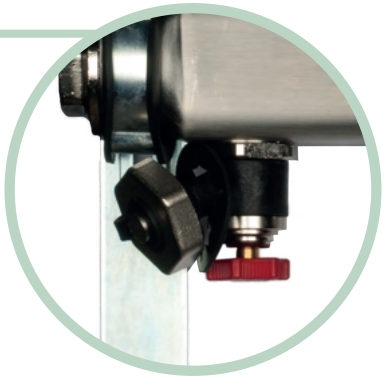
Heat- and cold-resistant plastic combined with zinc-resistant brass ensure maximum durability. Double O-ring seals and a non-flowing display area guarantee long-term functionality. The easy operation through the readout unit without the need for additional tools is very user- and installer-friendly. Two versions, up to 3 l/min and up to 6 l/min, offer a wide range of applications.

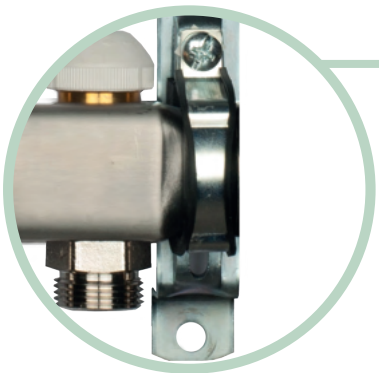
### Air vent

An air vent valve is installed on both the supply and return bars. The valves can be operated using the HERZ universal key.

### Drain valve

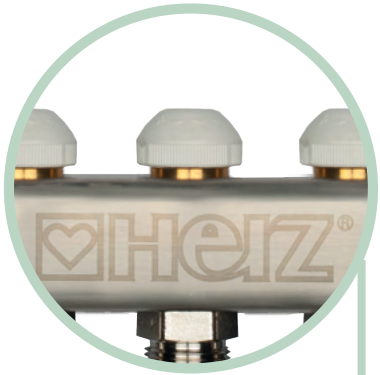
The flow direction is indicated by the colour of the valve handle (Supply - Red; Return - Blue). On the supply and return bars, there is a filling and drain valve with a G 3/4" thread connection. An addition with the HERZ hose connection 1 6206 01 is possible. The valve can be opened or closed using the handwheel.





### Mounts

The distribution manifolds can be mounted directly on a wall or in a distribution cabinet using the supplied brackets with integrated soundproofing inserts. The distribution manifolds can be mounted for connection to supply lines either from the left or from the right.



### Thermostatic Valves M28 x 1,5

The HERZ Thermostatic Valves are suitable for mounting all HERZ thermomotors (7708 and 7711).

# DYNAMIC CONTROL SET

## Dynamic control of surface heating and cooling

The HERZ Dynamic Control Set with the HERZ differential pressure control valve is the proven solution for issues like uneven or even insufficiently heated or cooled living spaces, which are caused by an inadequately regulated and controlled system. With the HERZ Dynamic Control Set, the heating water is delivered in the required amount to the desired location at the desired time. The combined functions of differential pressure control valve, zone control, isolation and flow limitation ensure excellent control of the surface heating and cooling. This enables an easy hydraulic adjustment of the surface heating and cooling, resulting in the best energy efficiency for the entire heating system.

**Top application areas**

- ☑ Residential complexes
- ☑ Single & multi-family homes
- ☑ Shopping centres
- ☑ Offices
- ☑ Hospitality / Tourism
- ☑ Healthcare centres
- ☑ Industrial facilities

## HERZ Dynamic Control Set

In practice, it is observed that the precision mechanical components of dynamic thermostatic valves are extremely sensitive to even the smallest impurities in the heating and cooling water. For this reason, the use of differential pressure controllers is recommended.

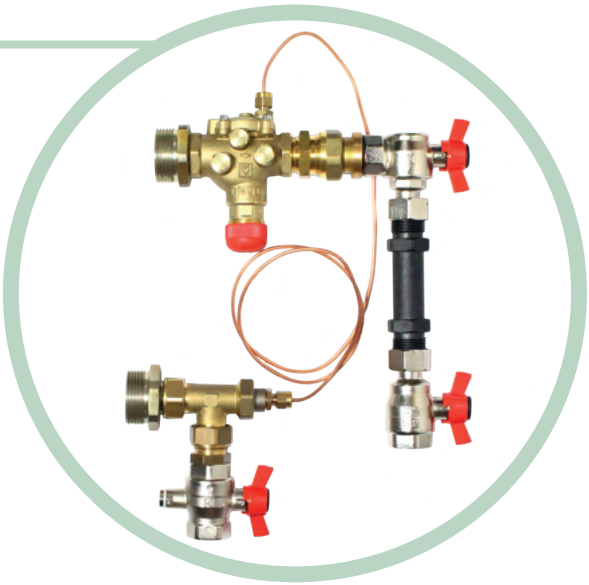
HERZ offers an advanced version of the classic differential pressure control valve, specifically designed for surface heating and cooling applications — the HERZ Dynamic Control Set. The HERZ Dynamic Control Set enables four functions: differential pressure regulation, zone control, shut-off, and flow limitation. In addition to these functions, the insensitivity of the dynamic control set to impurities in the heating and cooling water ensures the long-term preservation of the hydraulic control function. The product also stands out for its fast delivery time and compatibility with all 1-inch distributors on the market.

### Technical data

- Flow range: 50 - 1.950 l/h, 50 - 2.100 l/h
- Regulated differential pressure: 20 kPa, 35 kPa
- Number of distributor outlets: 3 - 12
- Available with or without adapter for heat meter
- Distributor side connection: G 1" MT
- Pipe side connection: G 3/4" FT (without distance piece G 1" MT)

## Components

In addition to the differential pressure control valve 4012 VS-TS on the return side, the sets also include two ball valves with freely rotating G ¾" nuts and a 110 mm coupling piece for comfortable installation and replacement of the heat meter. On the supply side, there is an isolating ball valve, as well as a cross-piece with venting and connections for the impulse pipe of the 4012 VS-TS and the temperature sensor of the heat meter. The adjustable throttle valve serves to limit the flow and ensures that a distributor cannot be over-supplied. The zone valve is pressure-relieved. Thermal actuators or gear motors with low actuator forces are ideal for attachment. This allows the complete isolation of the distributor's supply, which is particularly useful when the entire area supplied by the distributor, e.g., an apartment, needs to be isolated.

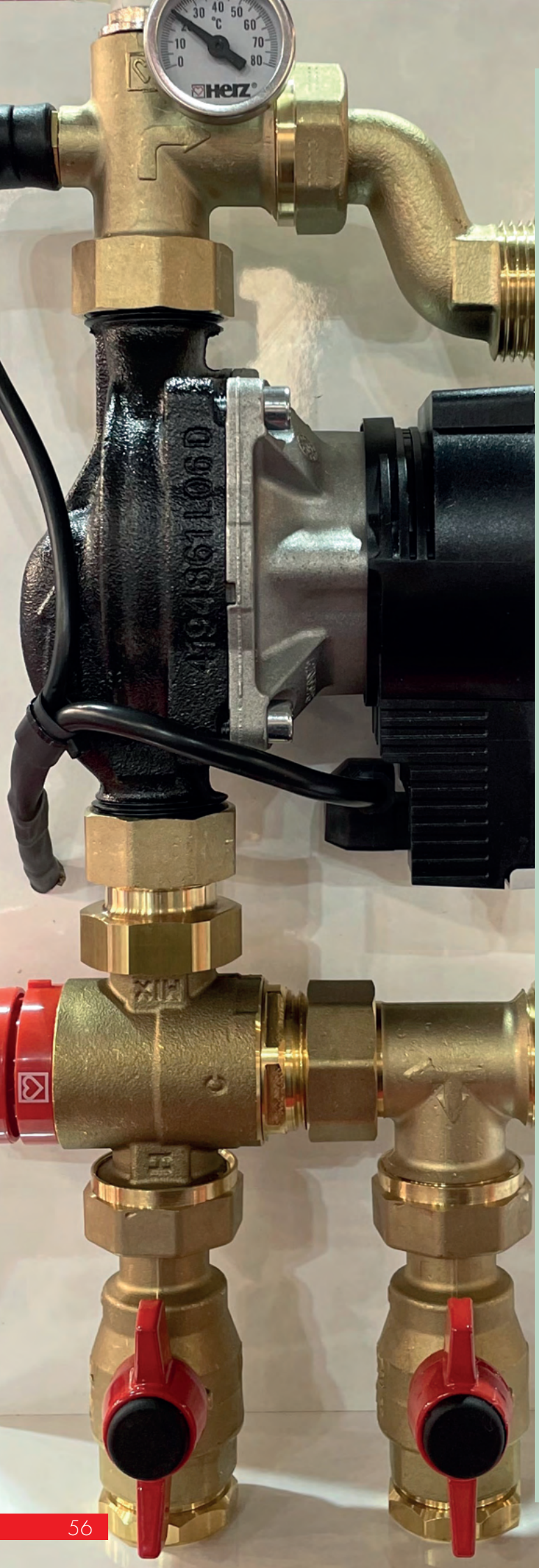



## The perfect combination

HERZ offers the complete package for maximum efficiency and comfort: The dynamic control set can be mounted directly on the HERZ Stainless Steel Distributor and combined with a matching flush-mounted cabinet. Depending on the number of distributor outlets, the flush-mounted cabinet is available in sizes from 600 mm to 1,050 mm.

For a single comfort zone, only one actuator on the differential pressure control valve is needed, paired with a room thermostat. Additional electrical distributors or actuators for each circuit are not required. If the distributor supplies multiple comfort zones, thermal actuators can be installed directly on the thermostatic valves of the individual underfloor heating circuits.

The F799 room thermostat controls up to 5 actuators simultaneously — without an additional electrical distributor. An efficient solution for any requirement.




# PUMP GROUP THERMO

## For underfloor heating systems in high-temperature heating

The HERZ Pump Group Thermo is a crucial component for systems with underfloor heating in a high-temperature heating system. If the medium enters the secondary heating circuit from the primary side with too high a temperature, it can cause complications. This is where the HERZ Pump Group Thermo comes in. The set includes a thermal mixing valve, eccentric connections, a thermostatic switch, two freely rotating union nuts, and two ball valves, and is directly connected to the distributor, such as the HERZ stainless steel distributor.

The HERZ Pump Group Thermo is available with or without a circulation pump upon request. The position of the eccentric connection can be adjusted by ±33 mm, making it compatible with almost all distributors available on the market. The mixer regulates the secondary heating circuit and plays a central role in controlling the room temperature. With the adjustable temperature range of the mixing valve from 20 °C to 42 °C, a constant and comfortable warmth can be achieved.

**Top application areas**

- Residential complexes
- Single & multi-family homes
- Hospitality / Tourism
- Shopping centres
- Offices
- Healthcare centres
- Industrial facilities

## HERZ Pump Group Thermo

### Technical data

| | |
|---|---|
| ☑ Max. operating temperature: | 90 °C |
| ☑ Nominal pressure: | 6 bar static<br>5 bar dynamic |
| ☑ Mixing valve adjustment: | 20 °C - 42 °C |
| ☑ Temperature stability: | ± 2 °C |
| ☑ Max. input pressure ratio (C/C or C/H): | 2:1 |
| ☑ Bimetallic thermostat switch: | |
| - fixed shut-off temperature for pump at 60 °C | |
| ☑ Thermometer measurement range: | 0 - 80 °C |
| ☑ kvs value: | 2,5 m³/h |
| ☑ Ball valve connection: | 3/4" FT |

## Components

### Circulation pump

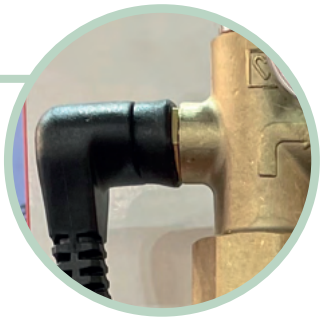
The set is available with or without a circulation pump. The standard pump used in the HERZ Pump Group with variable speed is the WILO PARA 15-130/6. The pump functions include: constant pressure setting; adjustment of the constant flow rate; and adjustment of the housing venting.

### Mixing valve

The thermal mixing valve with an adjustment range of 20°C to 42°C allows precise setting of the supply temperature.

### Temperature safety cut off switch

The switching setting is designed so that the power supply to the circulation pump is interrupted if the temperature in the flow exceeds 60 °C. The minimum temperature difference required to ensure fail-safe operation between the flow and mixing water is 10 °C.



### Excentric connection with connector

The position of the eccentric screw connection can be adjusted by ±33 mm, allowing it to be adapted to almost any distributor available on the market. The connectors included in the set are used for directly connecting the pump group to the distributors for underfloor heating systems. The use of these connectors simplifies maintenance thanks to the freely rotating nut.

### Elbow with thermostat switch

The temperature display and vent valve, including a practical vent hose, are integrated into the upper angle fitting. Air can accumulate at the upper end of the angle fitting, as it is the highest part of the heating system, which is why it is equipped with a vent. The temperature display goes up to 80 °C, allowing the flow temperature to be read.

### Ball valves

The set is equipped with two HERZ Ball Valves with free-turning nuts. The valves can be used during the installation or maintenance of the set as they are 100% leak-proof.


# COMPACT-FLOOR

## For a smooth transition from radiator heating to underfloor heating

The HERZ Compactfloor is a ready-to-connect control station specifically designed for converting radiator heating systems to underfloor heating. HERZ Compactfloor enables individual room heating and can be flexibly adapted to user behavior and specific temperature requirements. The system's easy operation and the pre-assembled combination of all necessary components save time and costs during both commissioning and maintenance.

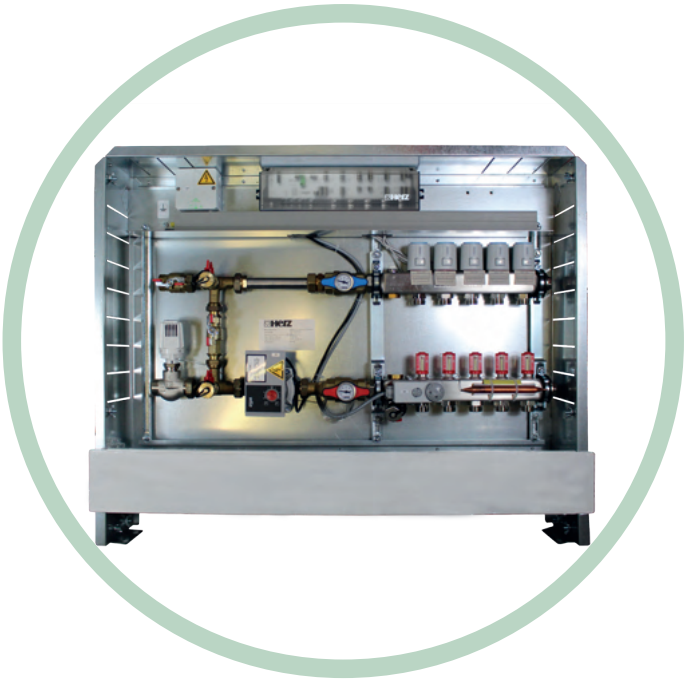
**Top application areas**

- ☑ Single & multi-family homes
- ☑ Hospitality / Tourism
- ☑ Residential complexes
- ☑ Shopping centres
- ☑ Offices
- ☑ Healthcare centres
- ☑ Industrial facilities

3 E532 XX

## HERZ Compactfloor

The HERZ Compactfloor control station includes a high-efficiency circulation pump designed for connecting 3 to 12 heating circuits and is also available with 2 additional radiator connections, depending on the living situation. The station is available with either a right or left connection as needed.



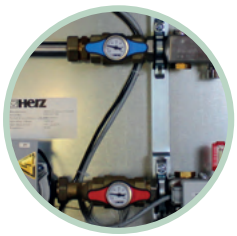
### Technical data

| | |
|---|---|
| Max. operating pressure: | 10 bar |
| Min. operating temperature: | - 10 °C |
| Max. operating temperature: | 110 °C |
| Max. differential pressure: | 0,5 bar |
| Max. heating capacity: | approx. 8 kW |
| Power supply: | AC 230 V ~, 50 Hz. |

## Components

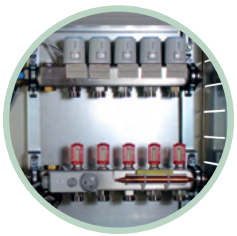
### Circulating pump

Automatic differential pressure control with electronic circulation pump.



### Ball valve with thermometer

For isolating the system with an easy-to-read temperature display.



### Stainless Steel Distributor

With regulating inserts and flow meters with flow indicators in the supply line. In the return line, it features actuators for heating circuit control, as well as venting and draining valves.

### Actuation Signal Distributor

Pre-wired for automatic control of the zone valve and the pump, including integration of a safety thermostat to shut off the pump.

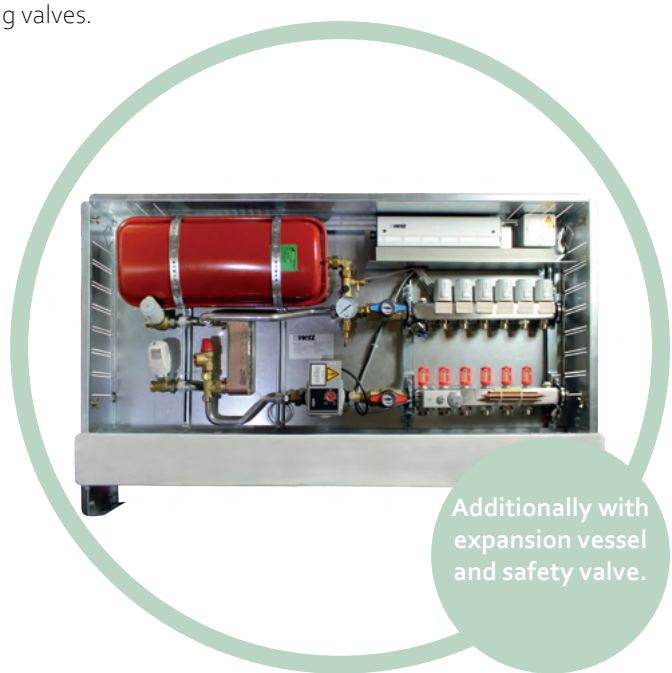
### Thermal Mixing Unit

To automatically adjust the high temperatures in the supply line to the underfloor heating circuits.

3 F532 XX

## HERZ Compactfloor WE

Compactfloor WE is specifically designed for the requirements of Wien Energie. The ready-to-connect control station with system separation, including electronically controlled pump, is designed for connecting 3 to 12 heating circuits of underfloor heating.




### Technical data

| | |
|---|---|
| Max. operating pressure (riser side): | 10 bar |
| Max. operating pressure (secondary side): | 3 bar |
| Design temperature (riser side): | 60 °C |
| Min. operating temperature: | 5 °C |
| Max. operating temperature (riser side): | 95 °C |
| Max. heating capacity: | approx. 8 kW |
| Power supply: | AC 230 V ~, 50 Hz. |

# METERING MANIFOLD

## The signpost to optimal energy distribution

The HERZ Metering Manifold provides direct and easy access to all essential components, such as heat meters, control and shut-off valves, without requiring the presence of residents. Installed in the building corridors, it allows for quick maintenance work. The product offers simple regulation, maintenance, and heat measurement from a single location.

In combination with dynamic valves, such as the HERZ Differential Pressure Control Valve, HERZ Metering Manifold also ensures optimal hydraulic balancing. This guarantees efficient heat and cooling supply to each apartment and optimizes energy consumption.

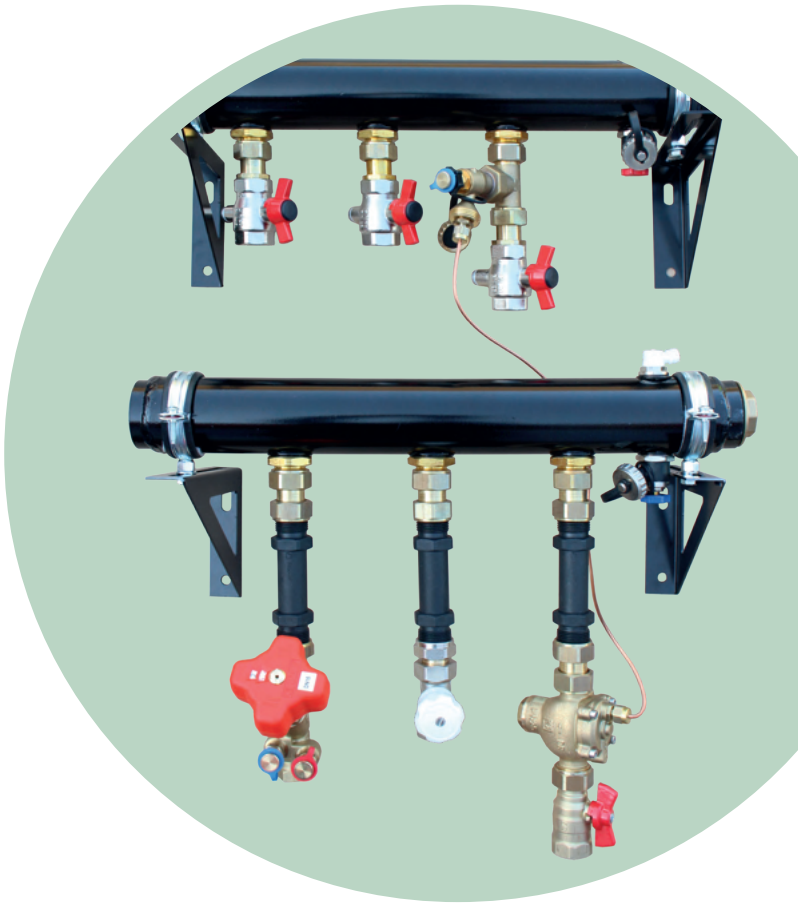
**Top application areas**

- Residential complexes
- Offices
- Hospitality / Tourism
- Healthcare centres
- Single & multi-family homes
- Shopping centres
- Industrial facilities

1 8636 XX

## HERZ metering manifold

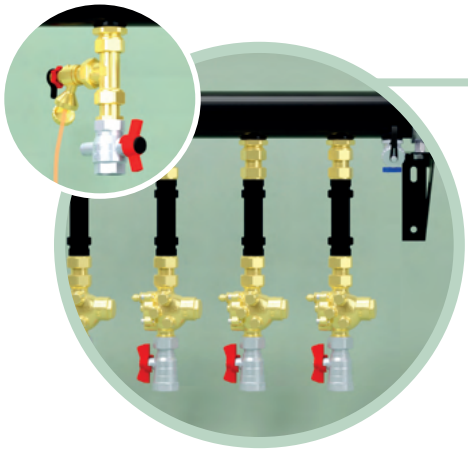
HERZ Metering Manifolds can be used for underfloor, wall, and ceiling heating and cooling systems, as well as in combination with radiators. The product is available in DN 15. The DN 15 connections can supply 1 to 12 heating circuits. The compact design of the connection sets reduces the overall height of the distributor cabinet. Thanks to the included brackets, the wall distance is freely adjustable. The product can be used at high pressures, high and low temperatures, as well as with high flow rates.



### Technical data

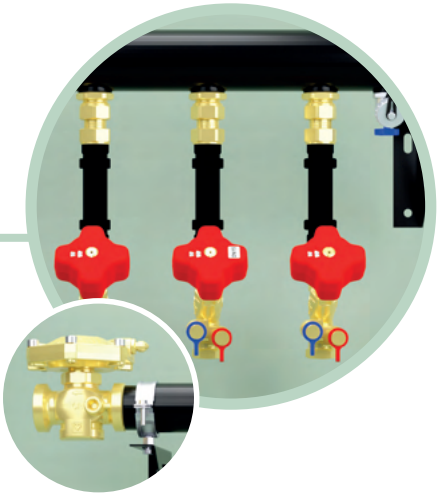
| | |
|---|---|
| Max. operating pressure: | 10 bar |
| Max. operating temperature: | 110 °C |
| Min. operating temperature: | 2 °C |
| Female thread connection (primary): | G 1 1/2" |
| (with adapter: G 5/4" freely rotating union nut) | |

## In combination



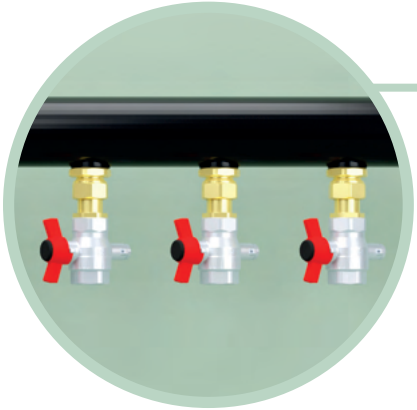
### Differential Pressure Control Valve

The HERZ Differential Pressure Control Valve is mounted in the return line and ensures a constant differential pressure in the respective apartment.



### Commissioning Valve

The HERZ Commissioning Valve ensures that the correct amounts of heating or cooling water reach each consumer. In combination with a differential pressure control valve on the primary side, it ensures hydraulic balancing.

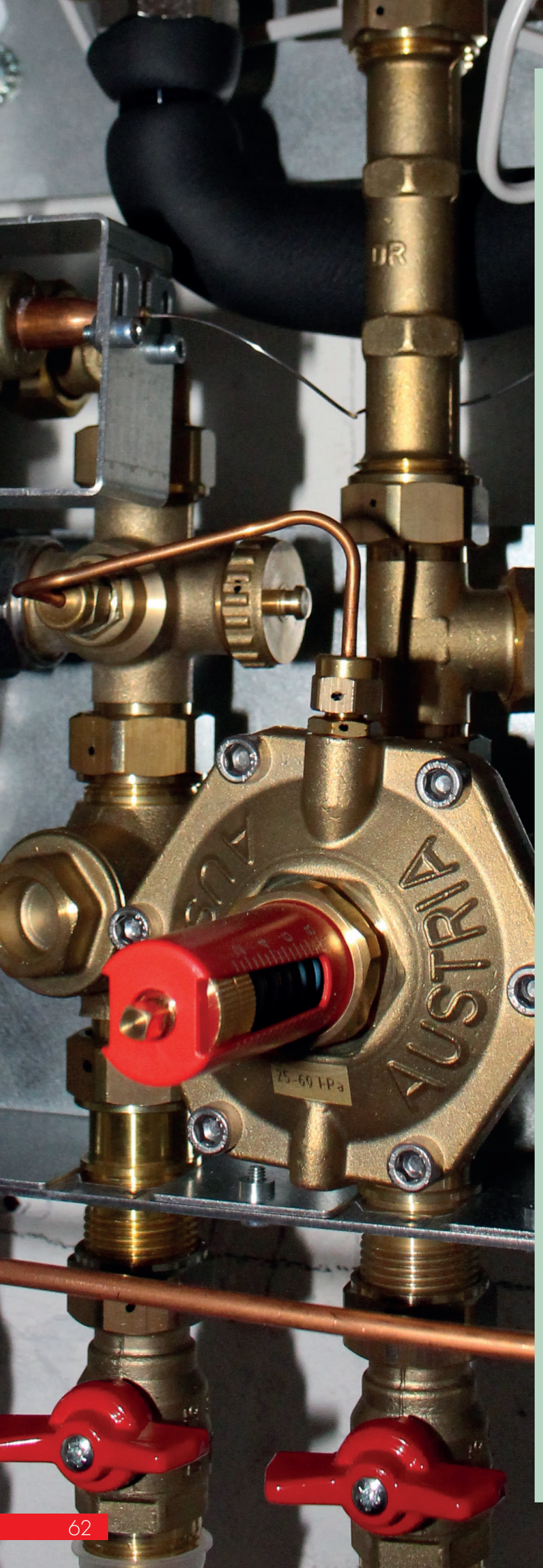


### Ball valve

The HERZ Ball Valves with sensor mounting are installed on the supply side and allow for reliable shut-off of the heating and cooling system for maintenance or repair, without the need to drain the entire circuit.

### GP Valves

The HERZ GP Valves are mounted in the return line and provide a cost-effective solution for isolating and balancing the system.




# HYDRAULIC INTERFACE UNIT RENOVA

## The perfect replacement for your gas boiler

The HERZ Hydraulic Interface Unit Renova was specifically designed as a replacement for wall-mounted gas boilers. A standard connection sequence, modeled after typical gas boilers, makes it easier to replace the boiler. Extremely compact dimensions, combined with the option to connect the station to the supply lines from either the top or the bottom, ensure a smooth replacement of the gas heating system in the apartment. The supply lines can be installed in the former chimney, which can now be repurposed as an installation shaft.

**Top application areas**

- ☑ Residential complexes
- ☑ Single & multi-family homes
- ☑ Hospitality / Tourism
- ☑ Healthcare centres
- ☑ Shopping centres
- ☑ Offices
- ☑ Industrial facilities

## HERZ HIU Renova

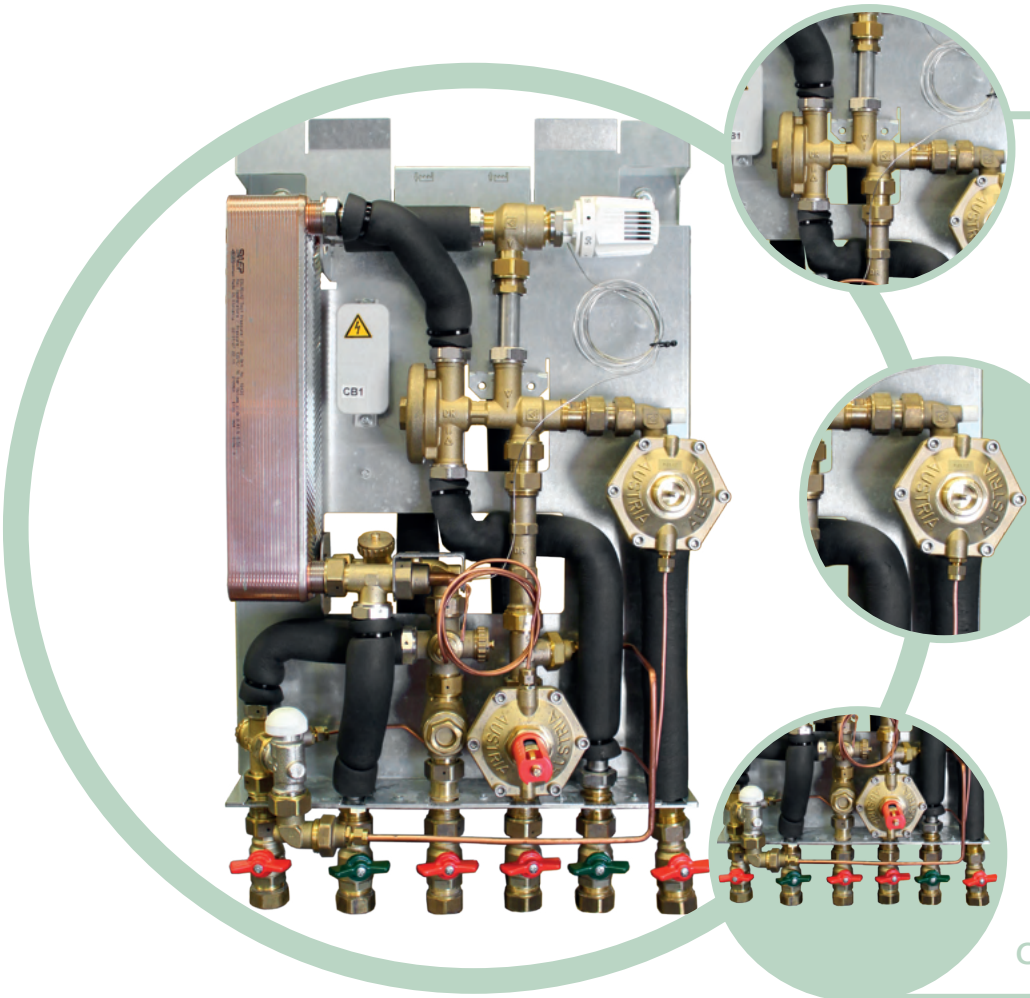
When converting existing gas boilers, the use of HIU Renova is recommended. In contrast to gas boilers, HIU Renova offers a sustainable and efficient heat supply. Thanks to the extraordinarily high transfer capacity of the heat exchanger, the return temperature of the entire system is particularly low. A property that works very well in combination with energy-efficient systems such as district or local heating, heat pumps or condensing biomass systems.

HIU Renova transfers the heating energy directly to the existing radiator heating and has a zone valve for convenient control of the apartment heating via a room thermostat. The heat is produced as required. Thanks to the insulated pipes, unwanted heat loss is prevented.

HIU Renova also effectively puts a stop to the issue of legionella. Since warm drinking water does not have to be stored at any time during normal operation, the risk of the development of harmful legionella cultures is greatly reduced.

### Technical data

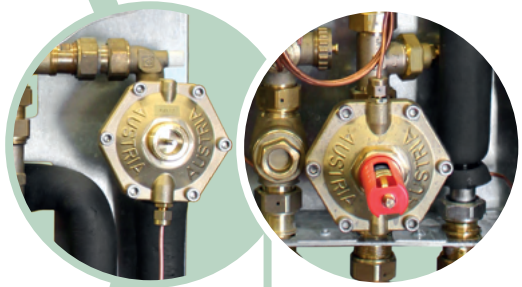
| | | | |
|---|---|---|---|
| Max. flow temperature: | 85 °C | Hot water output: | 31/42/50 kW |
| Max. operating pressure (station): | 16 bar | Drinking water temperature: | 10 °C |
| Max. differential pressure (primary): | 2 bar | Tap temperature: | 50 °C |
| Min. drinking water flow pressure: | 2,5 bar | Flow temperatures: | 11 - 15 l/min ab 55 °C |
| Max. heating output: | 15 kW | | 18 l/min ab 65 °C |
| Tapping capacity: | 11/15/18 l/min | Connection: | 3/4" flat sealing |





### Patented Pressure Temperature Controller

The patented HERZ Pressure Temperature Controller ensures uniform tap temperatures with varying hot water outputs.



### Differential Pressure Control Valve

A Differential Pressure Control Valve is integrated into both the primary and secondary heating circuits.



### Convenient connection

Standard version with compact ball valves.

# HYDRAULIC INTERFACE UNIT flex

## The flexible solution for every heating situation

The HERZ HIU flex family offers the optimal solution for all requirements and situations. The HIU flex family is divided into three main categories: HIU flexRAD is perfect for radiator heating systems, while HIU flexUFH is ideal for floor heating systems with low flow temperatures. For systems with separate supply for heating/cooling and hot water, HERZ HIU flexLEN is the right choice. The selection of different flow rates depending on the category provides a flexible solution for every heating situation.

All models of the HERZ HIU flex family have one thing in common: they offer fully pre-installed technology in a compact size, ensuring time-saving commissioning and maximum energy efficiency. From the integrated 4-in-1 HERZ Differential Pressure Control Valve for hydraulic balancing to the hot water priority for prioritized hot water preparation during tapping, with HERZ HIU flex, you save time, energy, and costs.

**Top application areas**

- ☑ Residential complexes
- ☑ Hospitality / Tourism
- ☑ Healthcare centres
- ☑ Single & multi-family homes
- ☑ Shopping centres
- ☑ Offices
- ☑ Industrial facilities

## HERZ HIU flexUFH

Ideal for supplying floor heating systems with heating loads up to 12 kW. Depending on the requirements, the product is available with or without an integrated stainless steel distributor (short or long version), allowing for up to 10 heating circuits to be supplied.


### Technical data

| | |
|---|---|
| Flow temperatures: | 55 - 85 °C |
| Flow temperatures for the UFH: | 20 - 50 °C |
| Min. drinking water flow pressure: | 2,8 bar |
| Flow rate (depending on supply temperature): 11/15/18/22 l/min | |
| Max. operating pressure (station): | 10 bar |
| Max. heating power: | 12 kW at 7 K |
| Empty weight: | 17 kg |
| Connection: | MT 3/4" flat sealing |
| Reserve connection for bathroom radiator: | MT 3/4" |

## Components

### Heat exchanger

Copper-brazed, asymmetric stainless steel plate heat exchanger

### Summer bypass

Ensures efficient and fast water heating even in summer.

### Mixer with internal thermostat

For fixed-value control between 20 - 42°C, independent of the ambient temperature.

### Thermostatic re-adjustment

The integrated thermostatic re-adjustment ensures reliable scale and scald protection.

### Distance piece

Water meter distance piece for hot and cold water:
80/110/130 mm
Heat meter: 110 mm

### HERZ Pressure Temperature Controller

For the central control of the hot water temperature with integrated priority hot water switching.

### HERZ Differential Pressure Control Valve

Primary side: adjustable between 25 - 60 kPa
Secondary side: fixed pre-set

### Circulating pump

Speed-controlled circulating pump and a safety thermostat (bi-metallic thermostat switch) provide a smooth heating water cycle at all times.


1 4028 XX

## HERZ HIU flex RAD

Ideal for supplying radiator heating with heat loads up to 15 kW.

### Technical data

| | |
|---|---|
| Flow temperatures: | 55 - 85 °C |
| Tap capacity (depending on supply temperature): 11/15/18/22 l/min | |
| Min. drinking water flow pressure: | 2,8 bar |
| Max. operating pressure (station): | 16 bar |
| Max. heating capacity: | 25 kW at 20 K |
| Empty weight: | 15 kg |
| Connection: | MT 3/4" flat sealing |

## Components

### Heat exchanger

Copper-brazed, asymmetric stainless steel plate heat exchanger

### Return temperature limiter

Ensures a low return temperature, making the heating system more efficient.

### Distance piece

Water meter distance piece for hot and cold water:
80/110/130 mm
Heat meter: 110 mm

### Summer bypass

Ensures efficient and fast hot water supply even in summer.

### Thermostatic re-adjustment

The integrated thermostatic re-adjustment ensures reliable scale and scald protection.

### HERZ Pressure Temperature Controller

For the central control of the hot water temperature with integrated priority hot water switching.

### HERZ Differential Pressure Control Valve

Primary side: adjustable between 25 - 60 kPa
Secondary side: fixed pre-set

## HERZ HIU flexLEN

HIU flexLEN (Low Energy Network) is the compact hydraulic interface unit with minimal space requirements and separate supply for heating/cooling and hot water. It includes all the necessary components to efficiently regulate both room heating & cooling as well as hot water generation. While the underfloor heating operates at significantly lower temperatures than water heating, the HIU flexLEN, as a 4-pipe station with separate primary supply, ensures more efficient operation at this point. This allows a heat pump to deliver its performance in the optimal temperature range for room heating, resulting in lower heating costs. The 4-pipe system enables simultaneous use of heating or cooling and hot water. The instantaneous water heater principle guarantees high hot water comfort.

HERZ HIU flexLEN uses a highly efficient heat exchanger for decentralised hot water generation on demand in the high-temperature circuit. At the same time, due to the exceptionally high heat transfer capacity of the heat exchanger, the return temperature of the overall system is particularly low. Depending on the requirements, the product is available with or without an integrated stainless steel distributor (short or long version), allowing for up to 12 heating circuits to be supplied.

### Technical data - hot water supply

| | |
|---|---|
| Max. operating temperature: | 85 °C |
| Max. operating pressure: | 10 bar |
| Max. differential pressure (primary): | 2 bar |
| Adjustable differential pressure control valve (primary): | 25 -60 kPA |
| Tap quantity: | 18 l/min |
| Tap temperature: | 45 - 50 °C |
| Operating temperature (flow): | 55 - 85 °C |
| Min. cold water flow pressure: | 2,8 bar |
| Connection: | MT 3/4", flat sealing |

### Technical data - heating- & cooling supply

| | |
|---|---|
| Max. operating temperature: | 85 °C |
| Max. operating pressure: | 10 bar |
| Max. differential pressure (primary): | 2 bar |
| Adjustment range for combined valve – flow rate controller: | 400 - 2.000 l/h |
| Heating circuit distributor: | 3 - 12 |
| Heating capacity: | 17 kW bei 7 K |
| Cooling capacity: | 10 kW bei 4 K |
| Summer bypass (fixed setting): | 45 °C |
| Connection: | MT 1", flat sealing |

### Thermal insulation

The components of heating and cooling circuit are in an insulated box with lid to be impermeable to water vapour, to reduce heat loss and enable easy installation. In addition, the station has a pipe connection for ceiling cooling and a distance piece for an optional heating or cooling circuit pump. The pipe size is adapted to the cooling situation with a diameter of 22 mm.

### Dimension

Thanks to its compact dimensions, the HERZ HIU flexLEN is ideal for rack technology and is available in two different sizes (HxWxD):
Short: 800 x 800 x 150 mm
Long: 1.490 x 800 x 150 mm

# SKIRTING BOARDS

## Flexibility meets design

HERZ Skirting Boards impress not only with their elegant appearance but also with their versatile connection options. Thanks to precisely coordinated system components and well-designed accessories such as joint connectors, plug-in internal and external corners, and end caps, quick and easy installation is guaranteed.

**Perfect adaptation to any wall**

The sophisticated design of the HERZ Skirting Boards, complemented by a soft special sealing lip, ensures a perfect fit even on uneven walls. Additionally, the extra-long PVC soft lip prevents dirt and moisture from seeping behind the skirting board, expanding its range of applications—whether in residential or commercial spaces.

With a colour palette ranging from silver oak, white ash, beech, maple/birch, anthracite to white (RAL 9016) and concrete grey, the HERZ Skirting Boards can be perfectly matched to any flooring. This provides architects and designers with maximum freedom in their designs, creating a seamless balance between functionality and aesthetics.

**Top application areas**

- ☑ Residential complexes
- ☑ Single & multi-family homes
- ☑ Hospitality / Tourism
- ☑ Offices

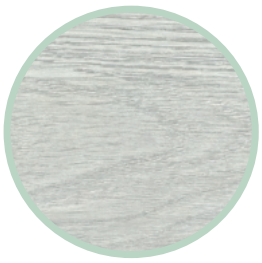
3 S970 / S910 XX

## HERZ Plastic Skirting Boards

With the Click-Clack system, HERZ Skirting Boards can be effortlessly attached to the pipework of two-pipe or single-pipe heating systems with a pipe diameter of up to 22 mm. Available in a variety of colours, HERZ Skirting Boards can be perfectly matched to any interior design.

### Technical data

- Dimensions: 2.000 x 40 x 88 mm
- Material: recycled PVC hollow chamber profile, coated with light-resistant foil
- Connection: Click-Clack snap-on mounting
- Protection: sealing lip in skirting board colour
- Sales unit: 20 m



Silver oak



Maple/Birch

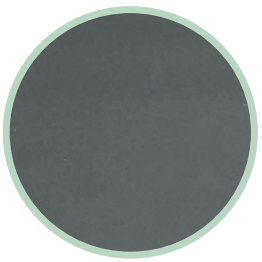


White Ash

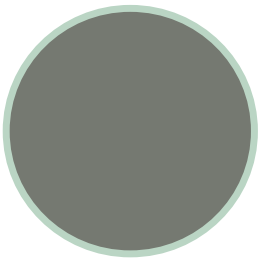
Beech



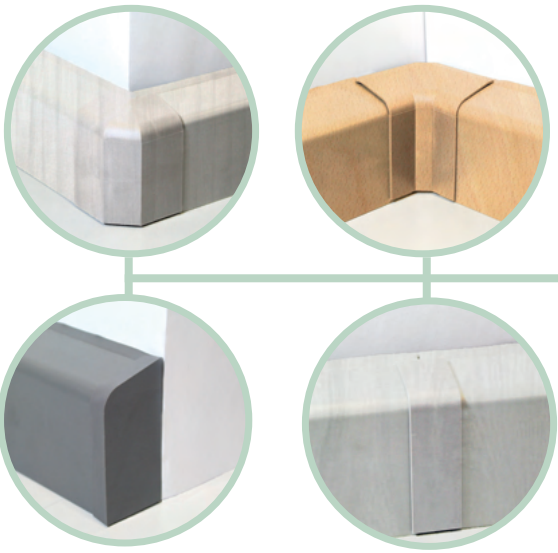
White RAL 9016



Anthracite



Concrete Grey



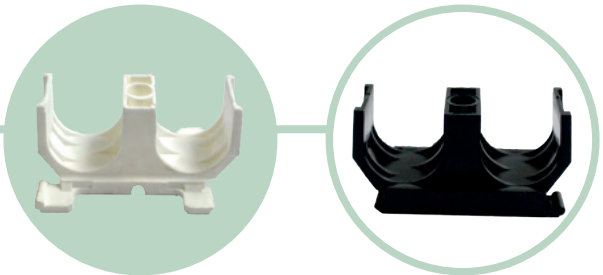
### Versatile connection options

HERZ Skirting Boards offer flexible solutions for any room situation: plug-in external and internal corners, end caps (right and left), and joint connectors enable easy and precise installation in matching colours.

3 S912 / S940 XX

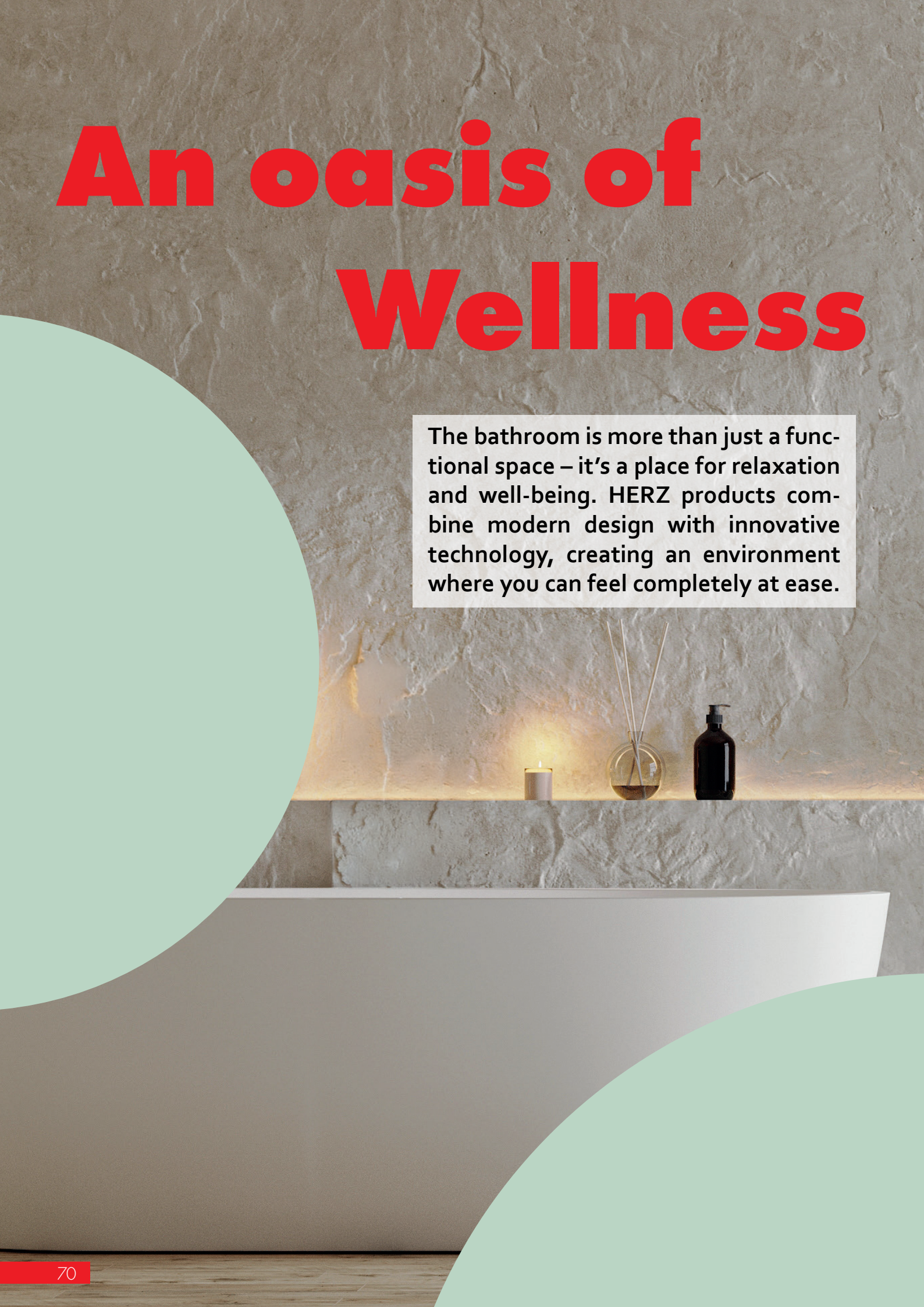
## Pipe and skirting board holder

For fastening or retrofitting HERZ Skirting Boards onto already installed pipes, HERZ offers fixed in white or height-adjustable brackets (adjustable up to 15 mm) in black.



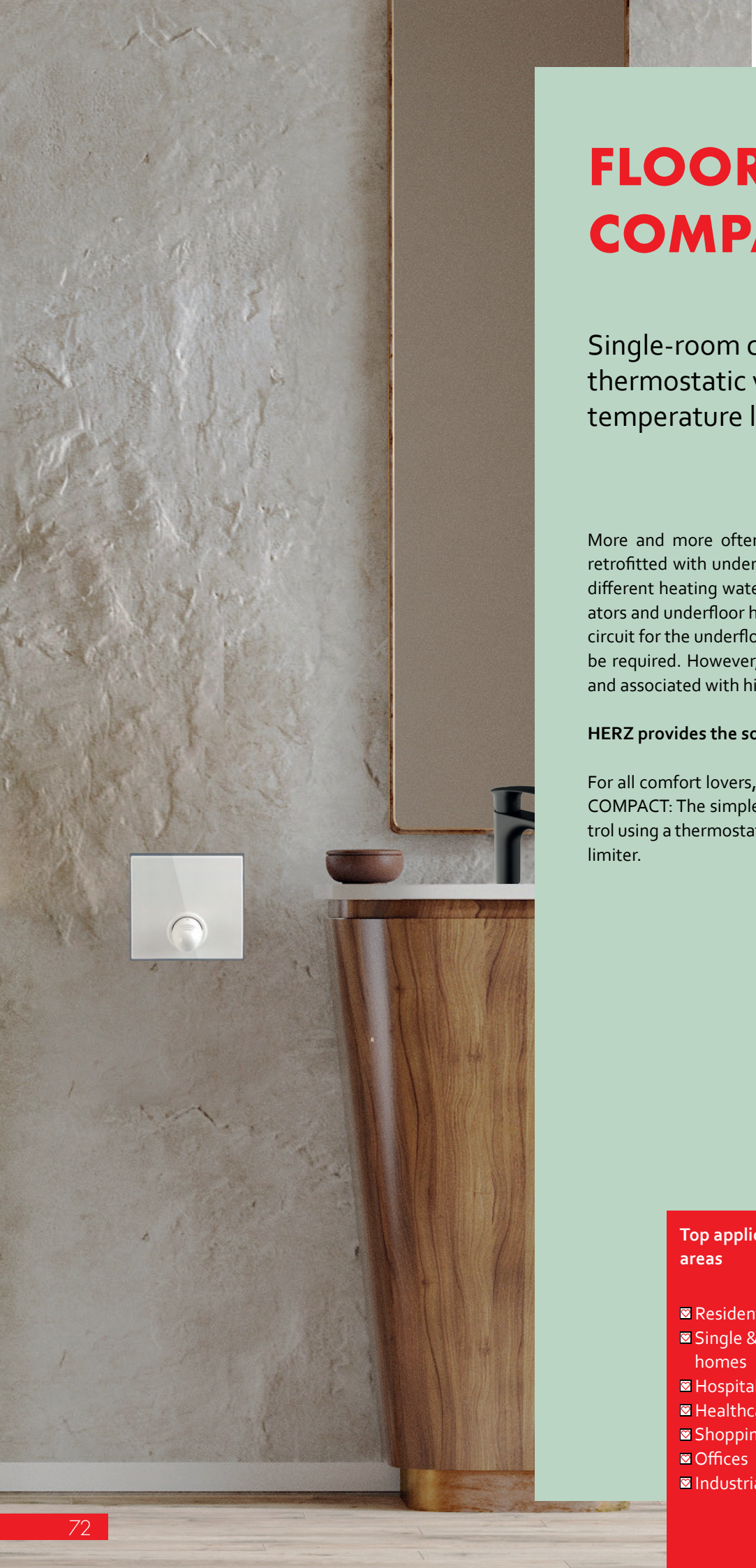
# An oasis of Wellness

**The bathroom is more than just a functional space – it's a place for relaxation and well-being. HERZ products combine modern design with innovative technology, creating an environment where you can feel completely at ease.**



From elegant showerheads to stylish faucets and precise floor heating controls, transform your bathroom into a space that perfectly blends comfort and relaxation.

# with HERZ



# FLOORFIX COMPACT

## Single-room control using a thermostatic valve and return temperature limiter

More and more often, individual rooms are being retrofitted with underfloor heating. To maintain the different heating water temperatures between radiators and underfloor heating, a separate distribution circuit for the underfloor heating would theoretically be required. However, this is often too complicated and associated with high costs.

**HERZ provides the solution.**

For all comfort lovers, HERZ offers HERZ FLOORFIX COMPACT: The simple solution for single-room control using a thermostat valve and return temperature limiter.

**Top application areas**

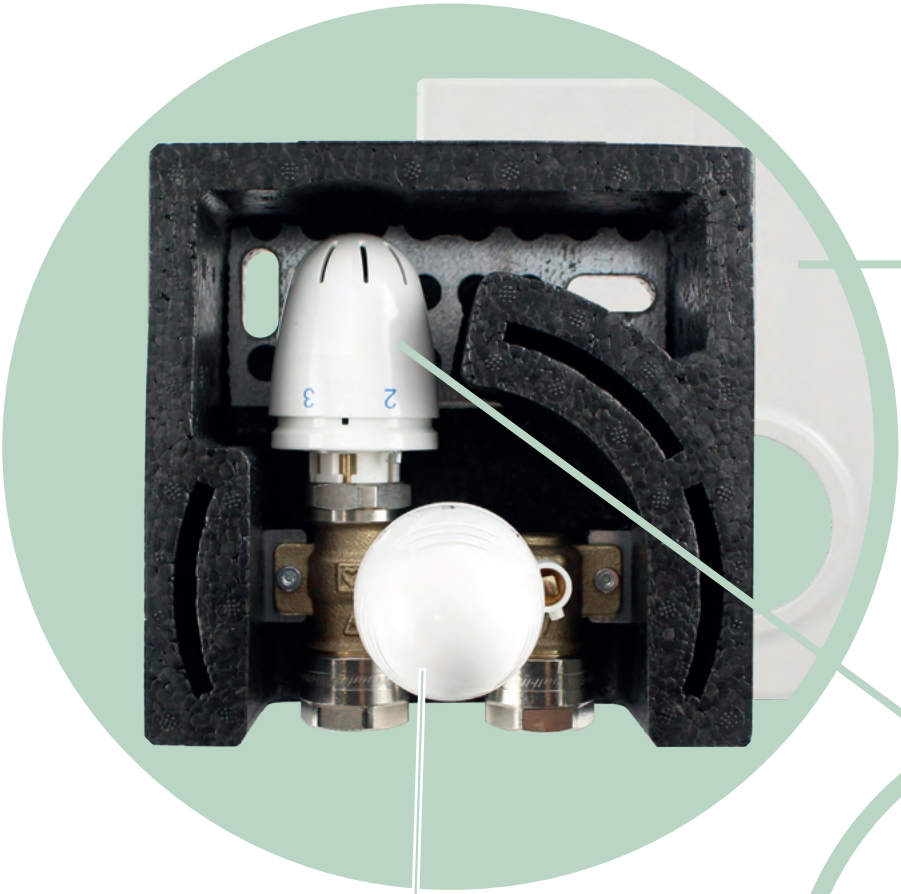
- ☑ Residential complexes
- ☑ Single & multi-family homes
- ☑ Hospitality / Tourism
- ☑ Healthcare centres
- ☑ Shopping centres
- ☑ Offices
- ☑ Industrial facilities

## HERZ FLOORFIX COMPACT

The delivery includes an installation set for flush-mounting with an EPP installation box and a white cover plate. Timelessly designed and suitable for any room. For optimal performance, installation is recommended approximately halfway along the heating circuit of the underfloor heating. The return temperature limiter regulates the flow temperature for the underfloor heating, ensuring a comfortable surface temperature. The desired room temperature can be easily set with the integrated thermostatic head. This allows a cost-effective combination of underfloor heating and radiator heating without the need for an additional distribution circuit.

**Technical data**

- Max. operating temperature (heating flow): 85 °C
- Max. operating pressure: 10 bar
- Max. differential pressure at the valve: 20 kPa
- Nominal diameter: DN 15
- Max. room heating load (heat demand): 1.000 W
- Max. pipe length of the underfloor heating circuit: (depending on pipe dimension) 60 - 80 m
- Max. underfloor heating area: (depending on pipe diameter and spacing) 8 - 14 m²



### Cover plate

The white cover plate is timeless and can be seamlessly integrated into any room design, with dimensions of 170 x 160 mm. For easy accessibility, the HERZ FLOORFIX COMPACT can be installed at the height of light switches, but at least 20 cm above the finished floor level.

### Return temperature limiter

The return temperature limiter allows for regulating the return temperature between 25 - 45 °C for the underfloor heating. The product is factory-set to a target value of 45 °C. Depending on technical requirements and personal preference, the blocking pins of the return temperature limiter can be loosened and repositioned as needed to narrow or expand the target value range.

### HERZ MINI Thermostatic head

The HERZ MINI thermostatic head has a target value adjustment range between 6-28 °C for room temperature control. The compact and stylish thermostatic head, with a length of 75 mm, features an integrated hydro sensor liquid sensor and automatic frost protection at approximately 8 °C. The room temperature can be easily adjusted according to personal preferences using the HERZ MINI Thermostatic Head, without the need to remove the cover.

# HERZ BATHROOM FITTINGS

## Timelessly modern

HERZ bathroom fittings set new standards in design and functionality. With a successful combination of aesthetic appeal and technical sophistication, HERZ bathroom fittings create the perfect symbiosis in the bathroom. The precision fittings are made from high-quality materials and crafted with meticulous attention to detail, ensuring not only an attractive appearance but also long-lasting durability.

The precision fittings are made either by casting, forging, or from brass rods. After precise mechanical processing and careful grinding and polishing, they receive a durable galvanic coating: first 8–12 micrometres of nickel, followed by 0.2–0.4 micrometres of chrome. This process not only protects the fittings but also gives them their characteristic shine, offering a visible and tangible promise of quality.

In terms of water consumption, HERZ precision fittings also stand out with their conscious and efficient use of water and energy. All current series are equipped with water-saving elements as standard. These fittings guarantee economical water usage without compromising performance.

**Top application areas**

- ☑ Hospitality / Tourism
- ☑ Residential complexes
- ☑ Healthcare centres
- ☑ Single & multi-family homes
- ☑ Offices
- ☑ Shopping centres
- ☑ Industrial facilities

## Lino

The Lino series is a combination of straight and rounded forms that complement each other, creating an elegant and minimalist look. The straight lines are the perfect solution for modern interiors, while the softer, rounded forms blend well with traditionally designed spaces. The tap is equipped with a slightly raised handle, making operation even easier. The Lino series will aesthetically complete your bathroom, as it includes a shower mixer, a basin mixer and a concealed version.

**Technical data**

- Operating pressure:
  - recommended: 3-5 bar
  - max.: 8 bar
- Temperature range:
  - recommended: 5 - 65 °C
  - max.: 80 °C
- Noise class: Class I
- Material: Housing made of cast brass with Ni-Cr coating and metal handle
- DVGW-certified 35 mm ceramic cartridge

Lino I11

Lino I91

Lino I30

## Elite

The Elite bathroom fittings combine clear linearity with soft transitions, perfectly complementing both modern and classic bathroom concepts. Whether in matte black or chrome, Elite bathroom fittings adapt to any bathroom design. For an especially minimalist and exclusive look, the series offers basin mixers and shower controls with wall covers and operating levers – ideal for concealed installation or front-wall mounting. Discover timeless elegance that not only enhances your bathroom but transforms it into a wellness oasis.

**Technical data**

- Operating pressure:
  - recommended: 3-5 bar
  - max.: 8 bar
  - min.: 0,5 bar
- Temperature range:
  - recommended: 5 - 65 °C
  - max.: 80 °C
- Noise class: Class I
- Material: Housing made of cast brass with Ni-Cr or matt black powder-coated; metal handle

Elite e80B

Elite e30

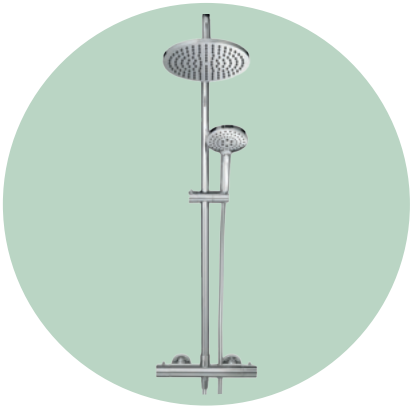
Elite e11B

## Fresh

The Fresh line integrates seamlessly into any modern bathroom thanks to its trendy rounded lines and intricate details. Elegant curves create an appealing design in the thermostatic fittings from the Fresh collection. The adjustment of the desired temperature is both comfortable and practical. It also protects against scalding, which is particularly important for families with children. The surface of the fittings does not heat up, making it completely safe to touch. Thoughtfully designed in both form and function, Fresh fittings always make stylish statements.

**Technical data**

- Operating pressure:
  - recommended: 3-5 bar
  - max.: 8 bar
- Temperature range:
  - recommended: 5 - 65 °C
  - max.: 80 °C
- Safety limit temperature: 38 °C
- Material: Housing made of cast brass with Ni-Cr coating and metal handle



Fresh SLIM termo fs152

Fresh termo f85

Fresh SLIM termo fs153

## Fresh Flush-mounted fittings f93

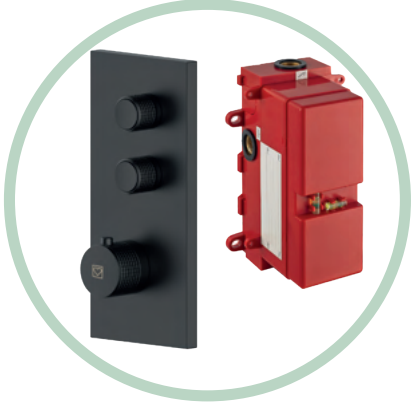
Depending on the model, HERZ offers a chrome-plated and a matt black version of its bathroom fittings. The Fresh termo f93 series is equipped with a sophisticated 2-click system that allows you to conveniently choose between a hand shower head and a rain shower at the touch of a button.

**Technical data**

- Operating pressure recommended: 3-5 bar
  max.: 8 bar
- Temperature range recommended: 5 - 65 °C
  max.: 80 °C
- Safety block temperature: 38 °C
- Material: Concealed brass housing in plastic installation box; Ni-Cr or matt black powder-coated; metal handle; stainless steel cover plate

Fresh termo f93b

Fresh termo f93



Fresh termo f93b mounting box

## Fresh Sensor fittings

In addition to hygienic benefits, the sensor taps in the Fresh line also offer comfort and safety when adjusting the temperature, while reducing water consumption. As a result, more and more people are choosing to use sensor-controlled taps in their private spaces. The Fresh collection offers a wide range of stylish taps with and without mixing valves – an innovative touch for any bathroom. The line also includes an electronic toilet flush with an adjustable sensor range of 250 - 700 mm. The flushing duration can be set between 1 - 30 seconds. Depending on the input pressure, the water flow rate ranges from 0.2 - 0.7 l/s.

**Technical data**

- Operating pressure:
  - recommended: 3-5 bar
  - max.: 8 bar
  - min.: 0,5 bar
- Temperature range:
  - recommended: 5 - 65 °C
  - max.: 80 °C
- Flow rate at 3 bar operating pressure: 6 l/min
- Material: Housing made of brass casting with Ni-Cr coating and metal handle

Fresh IR f12

Fresh IR e60

Fresh IR mix f11

## Zen

The soft curves and rounded shapes of the Zen line are the right choice for those who love tradition and appreciate modern design at the same time. Fine taps from the Zen line also have a handle that is very pleasant to the touch. The Zen line is a perfect compromise between elegance and ease of use. Zen bathroom taps are available in a matt black or chrome finish.

**Technical data**

- Operating pressure recommended: 3-5 bar
  - max.: 8 bar
  - min.: 0,5 bar
- Temperature range recommended: 5 - 65 °C
  - max.: 80 °C
- Safety block temperature: 38 °C
- Material: Housing made of cast brass with Ni-Cr or matt black powder-coated; metal handle coated; metal handle
- Flow rate at 3 bar operating pressure: approx. 8 l/min

Zen u50

Zen u30B

Zen u40

# Drinking water

Water is the source of all life - and it plays a central role in the kitchen. With our kitchen taps, we offer more than just functionality: they not only fulfil the highest standards and certifications, but also set benchmarks in

quality and safety. From robust everyday helpers to elegant fine taps - HERZ ensures that the most important thing in life flows into your everyday life with the utmost care and modern design.

# with HERZ

# DRINKING WATER FITTINGS

## On the safe side with HERZ

Clean, hygienically safe drinking water is one of the most valuable resources of our time and must be particularly well protected. Laws, ordinances and regulations define the detailed framework conditions for protecting this blue gold from harmful influences.

Within the framework of the EU Drinking Water Directive, each nation state must ensure that the contents of the directive are transposed into national law. The Austrian legislator has therefore stipulated in the 'Ordinance of the Austrian Institute of Construction Engineering on the List of Construction Materials ÖA' of 15 March 2019 that pipes, fittings and building fittings in the drinking water supply within a building between the transfer point and the tapping point must comply with the ÖNORM series B 5014 1-3.

HERZ Armaturen has the necessary registration certificates from the WIEN-ZERT registration centre for all HERZ drinking water products concerned. In addition, selected HERZ products are labelled with quality marks.

**Top application areas**

- Healthcare centres
- Hospitality / Tourism
- Residential complexes
- Single & multi-family homes
- Shopping centres
- Offices
- Industrial facilities

2 3011 XX

## HERZ Drinking Water Filter with Pressure Reducer


The HERZ Drinking Water Filter with Pressure Reducer is a 2-in-1 product for drinking water systems. Water can flow into the system from the water supplier under high pressure, which can be a problem for typical household appliances. The HERZ Pressure Reducer serves as a safety element by reducing the pressure to the necessary level. The adjustment range is between 1.5 - 6 bar. At the same time, the water filter captures solid particles that the water may naturally carry, ensuring the best drinking water quality. The housing is made of forged brass (suitable for drinking water), and the filter cup is made of PA 12.

### Technical data

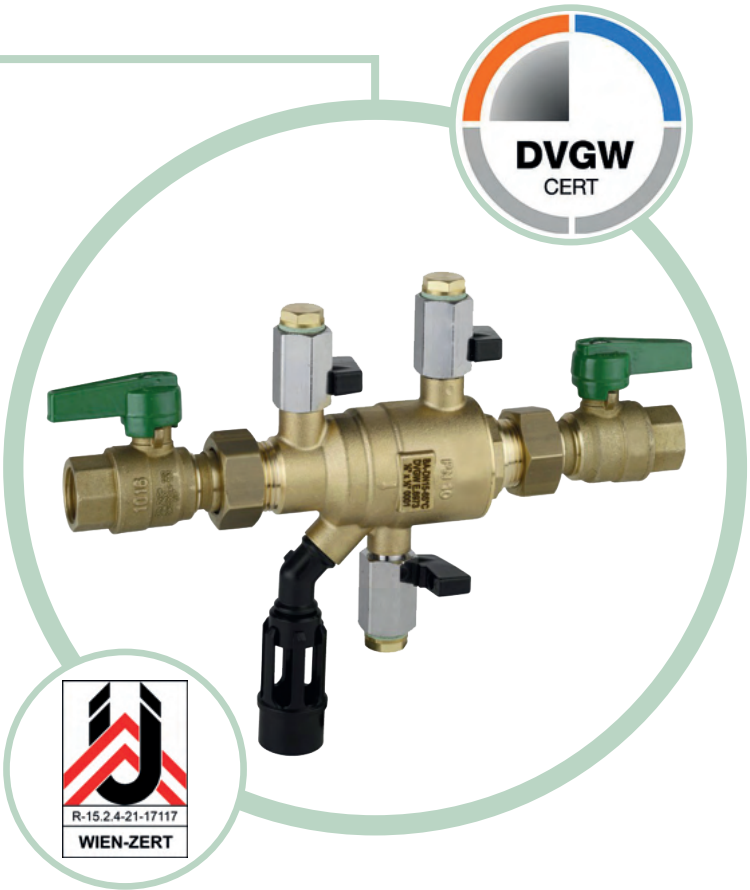
- Max. supply pressure: 16 bar
- Max. operating temperature: 40 °C
- Mesh size: 80 – 100 µm
- Dimensions: DN 15 - DN 25
- Strainer insert made of stainless steel
- Cleaning or rinsing without draining
- Incl. connection bracket
- Incl. membrane pressure reducer and manometer

I 0303 XX

## HERZ System Separator

HERZ System Separators are used to separate drinking water and liquids of categories 1 to 4. They operate according to the three-chamber system: inlet, centre and outlet chambers, each of which is separated from the other by a backflow preventer.

Under normal operating conditions, there is a pressure gradient in the direction of flow from one chamber to the other, which prevents backflow. The centre chamber is vented at the latest when the pressure drop between the inlet and centre chamber has fallen to 0.14 bar. Any pressurised water that is pushed back at the outlet-side non-return valve is then safely drained via the differential pressure-controlled drain valve and the drain funnel.




### Technical data

- Max. operating temperature: 65 °C
- Max. operating pressure: 10 bar
- Dimensions: DN 15 - DN 20
- With / without pressure reducer

2 7766 XX

## HERZ Drinking Water Mixing Valve


HERZ Drinking Water Mixing Valves are safety fittings that regulate the hot water outlet temperature to the set value. Hot and cold water are mixed in the valve by a very fast-acting wax-filled thermostatic element. This reduces the risk of uncontrolled high water temperatures and prevents scalding. HERZ Drinking Water Mixing Valves allow temperature control between 35 - 70 °C and are manufactured according to the EN 1111 and EN 1287 standards. They are available with changed flow direction or with alternating flow direction.

### Technical data

- Max. working pressure (static): 10 bar
- Max. working pressure (dynamic): 0,2 - 6 bar
- Max. pressure differential (flow pressure): 2,5 bar
- Flow range: between 4 - 42 l/min
- Max. water suply temperature: 85 °C
- Setting range: 38 - 48/50/70 °C
- Connection thread, flat sealing: G 3/4

2 4217 XX

## HERZ STRÖMAX-GNW Commissioning Valve

Commissioning valves allow for precise control of the flow in individual lines, creating the necessary resistance for the water in each line and ensuring that all consumers in the system receive the required water supply. By precisely controlling the flow, commissioning valves help to optimise energy consumption in water supply systems. This is particularly important in relation to pump systems, which are responsible for transporting water throughout the system. By using commissioning valves, problems such as insufficient water flow, pipe overload and inefficient use of resources can be avoided.

HERZ Commissioning Valves are available with measuring orifices for drinking water systems in slanted and straight seat forms, as well as with linear or equal percentage characteristics. Depending on customer requirements, some balancing valves are available with a digital display of the presetting level in the handwheel window, as well as with a rising or non-rising spindle.


### Technical data

- Max. operating temperature: 85 °C
- Max. operating pressure: 25 bar
- Dimensions: DN 15 - DN 50
- Spindle seal with two O-rings
- Stepless adjustment incl. stroke limitation
- Test points along the axis for optimal accessibility
- Clearly readable display of the setting on the handwheel shaft

2 4011 XX

## HERZ Circulation Temperature Limiter

The HERZ Circulation Temperature Limiter is a thermostatic balancing valve for drinking water systems with a circulation pump in the form of a proportional controller without auxiliary energy. The medium temperature of the circulation line is regulated and the distribution of the hot water is automatically ensured for several lines (if present). The circulating water volume is limited to the amount required to keep the temperature constant, and circulation losses are minimised. The integrated thermostatic element regulates the water temperature in the return, thus avoiding high costs. The valve is also to be used for the system's legionella flush.

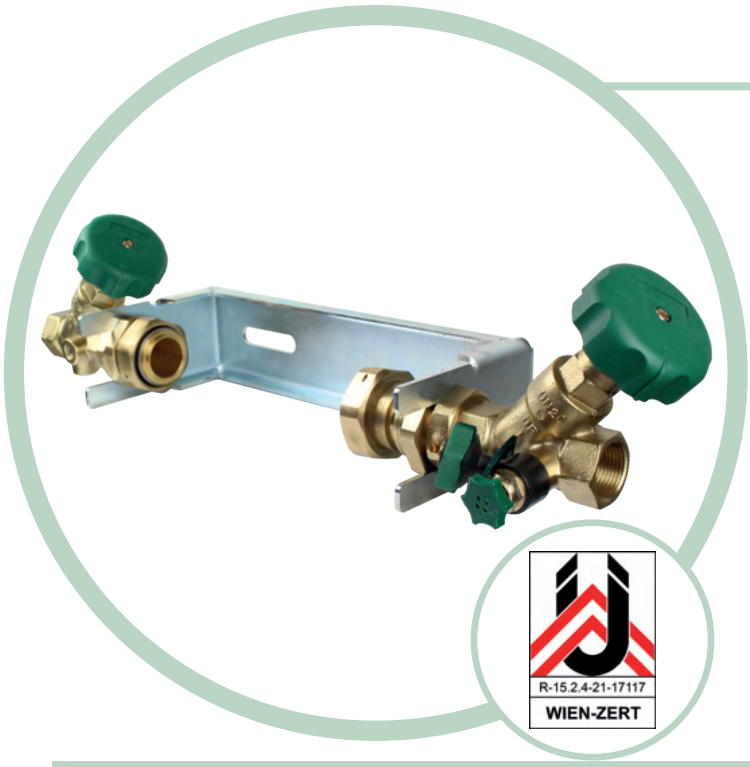

### Technical data

- Max. operating temperature: 80 °C
- Max. operating pressure: 10 bar
- Dimensions: DN 15 - DN 20

2 4126 XX

## HERZ Water Meter Set

HERZ Water Meter Set are the compact solution for easy installation of water meters. They absorb the forces that occur when the water meter is not installed. By installing an isolating valve before and after the water meter, it is possible to replace the meter after isolating the two valves. Consisting of two isolating valves, a non-return valve and a drain valve, all legally required components are combined with Austrian quality in one product. The non-return valve integrated in the isolating valve prevents backflow of water into the primary drinking water network. The isolating valves are made of dezincification-resistant brass and are designed with a non-rising spindle including a spindle seal with double O-ring.




### Technical data

- Max. operating temperature: 90 °C
- Max. operating pressure: 16 bar
- Dimensions: DN 20 - DN 50
- Spindle seal with two O-rings
- Sturdy construction with open galvanized steel bracket
- Length compensation for easy water meter installation
- Inlet-side union nut can be sealed

# HERZ KITCHEN FITTINGS

## Functionality and aesthetics combined

HERZ fine fittings are represented in 75 countries around the world and impress with European HERZ quality and Austrian design. In the area of kitchen fittings, HERZ offers a wide range of products. Well-thought-out solutions, functional control elements and several model variants are ideally suited to the requirements of the kitchen area. Depending on the product, left- or right-handed installation can be provided for individual operating convenience. For deeper kitchen sinks, HERZ also offers kitchen taps with a pull-out spray head, so that even hard-to-reach areas of the dishes can be washed cleanly. Fittings equipped with a thermostat function help to reduce hot water consumption and provide protection against scalding. From contemporary or traditional design to fine and modern lines, HERZ offers the perfect solution for every kitchen style.

All materials and components of HERZ fine taps fulfil the strictest European requirements for use in drinking water applications. Production also takes place in compliance with the demanding EU environmental standards.

**Top application areas**

- ☑ Single & multi-family homes
- ☑ Residential complexes
- ☑ Hospitality / Tourism
- ☑ Healthcare centres
- ☑ Shopping centres
- ☑ Offices
- ☑ Industrial facilities

## Elite SLIM

The new Elite SLIM tap line is a minimalist variant of the Elite series. The line combines simplicity, adaptability and functionality. Optimised production costs and an ecological approach to material efficiency enable Elite SLIM to offer users affordable prices. By combining contemporary design with functionality, Elite SLIM is an absolute eye-catcher in any kitchen. With elegant simplicity, Elite taps emphasise the clearly defined shapes of modern kitchen interiors.

**Technical data**

| | | |
|---|---|---|
| Operating pressure: | recommended: | 3-5 bar |
| | max.: | 8 bar |
| Temperature range: | recommended: | 5 - 65 °C |
| | max.: | 80 °C |
| Material (chrome): | Housing made of cast brass with Ni-Cr coating and metal handle | |
| Material (silicone) | Ni-Cr plated brass casting and flexible silicone spout in red, white, and black | |
| DVGW certified 25 mm ceramic cartridge | | |

Elite SLIM es24

Elite SLIM es20

Elite SLIM es24

## Elite

The combination of contemporary design and functionality makes the Elite line an absolute eye-catcher in any kitchen. With elegant simplicity, Elite taps emphasise the clearly defined forms of modern kitchen interiors. Depending on the model, the Elite kitchen taps are equipped with a pull-out spray, which allows for flexible handling and an extended range. The chrome-plated surface provides a glossy look and is also resistant to corrosion and wear. The Elite line includes products in chrome and matt black.

**Technical data**

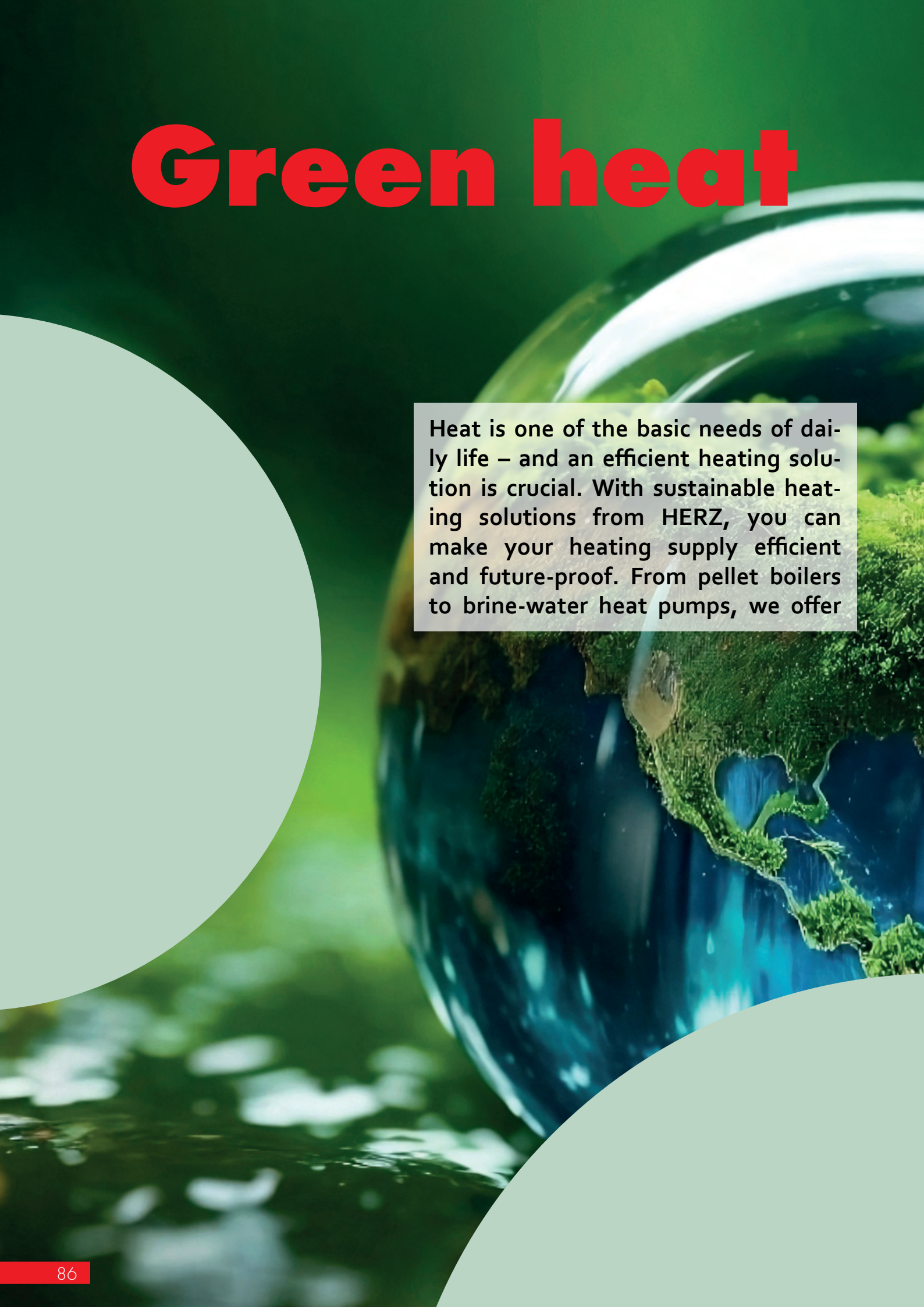
| | | |
|---|---|---|
| Operating pressure | recommended: | 3-5 bar |
| | max.: | 8 bar |
| | min.: | 0,5 bar |
| Temperature range | recommended: | 5 - 65 °C |
| | max.: | 80 °C |
| Material (chrome): | Housing made of brass casting with Ni-Cr coating and metal handle | |
| Material (silicone): | Ni-Cr plated brass casting and flexible silicone spout in black | |

Elite side e23

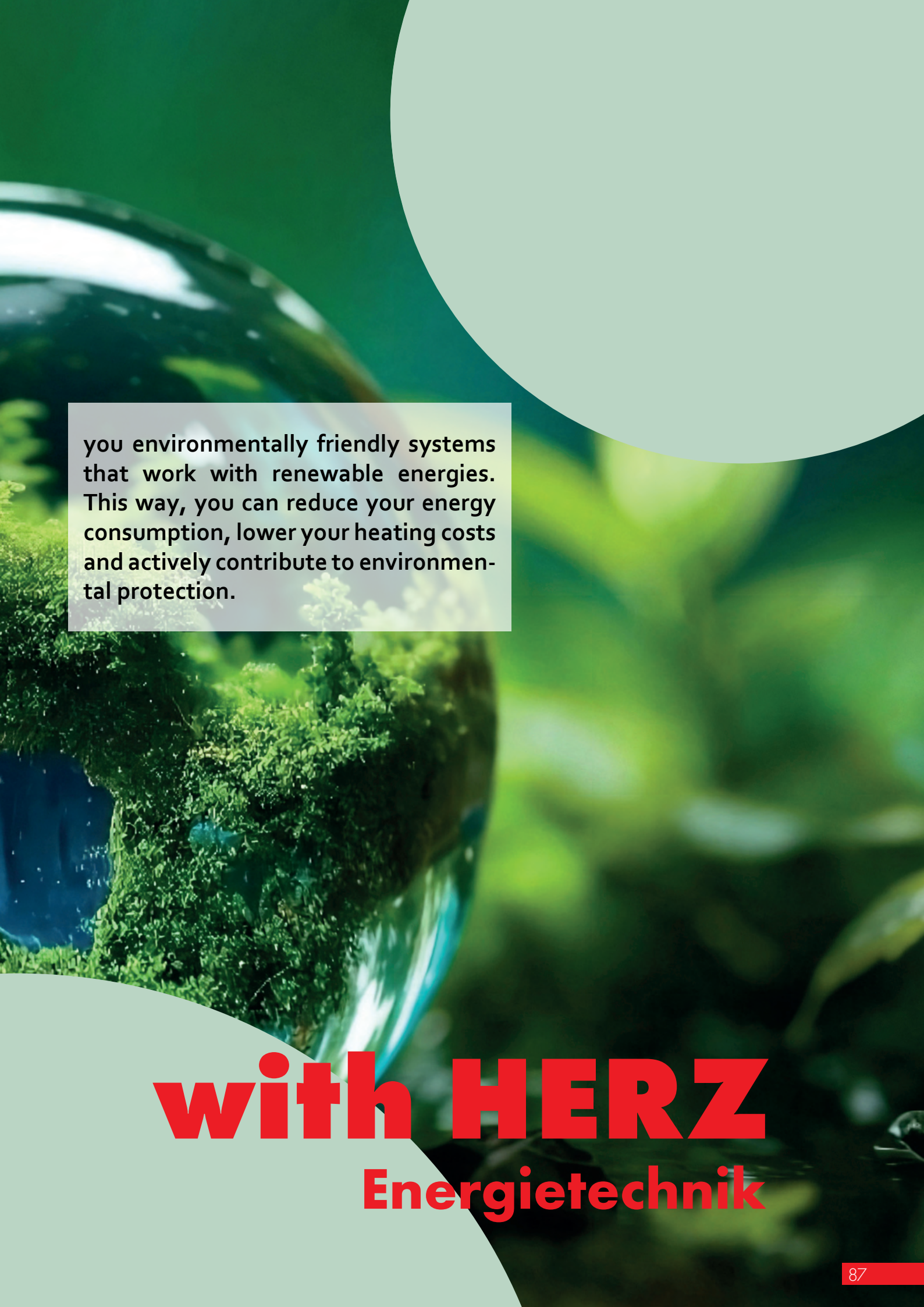
Elite e20B

Elite side e21

# Green heat



Heat is one of the basic needs of daily life – and an efficient heating solution is crucial. With sustainable heating solutions from HERZ, you can make your heating supply efficient and future-proof. From pellet boilers to brine-water heat pumps, we offer



you environmentally friendly systems that work with renewable energies. This way, you can reduce your energy consumption, lower your heating costs and actively contribute to environmental protection.

# with HERZ

## Energietechnik

# COMMOTHERM AWP ECO

## Monobloc air-source heat pump

The innovative commotherm AWP eco air-to-water heat pump features the latest inverter technology and a robust design, providing excellent protection against weather conditions. The advantage of inverter technology lies in its ability to perfectly adapt the heating output of the heat pump to the current outdoor temperature or the required flow temperature, ensuring outstanding energy efficiency even at low ambient temperatures. The heat pump can be used for heating, cooling, and domestic hot water production.

The commotherm AWP eco heat pump ensures whisper-quiet operation during nighttime hours thanks to the integrated "Silent Mode". This standard feature reduces the sound emissions of the heat pump, with up to three freely adjustable time slots per day.

**Top application areas**

- ☑ Single & multi-family homes
- ☑ Offices
- ☑ Residential complexes
- ☑ Hospitality / Tourism
- ☑ Shopping centres
- ☑ Healthcare centres
- ☑ Industrial facilities

## HERZ Monoblock Air-to-Water Heat Pump commotherm AWP eco 6- 12

The innovative commotherm AWP eco air-to-water heat pump is an outdoor unit designed for heating, cooling, and domestic hot water production, suitable for underfloor heating and radiators. It ensures whisper-quiet operation during nighttime hours (freely adjustable) thanks to the integrated "Silent Mode".

The room control unit ensures maximum comfort and ease of use with its intuitive menu navigation from within the living space. Additionally, remote access via smartphone or tablet is available, allowing you to monitor and control your heat pump anytime, from anywhere.


Flow temperatures up to 70 °C

Refrigerant R290

Performance range 6 / 12 kW

### Technical data

- Power range: 6 / 12 kW
- Supply temperature: max. 70 °C
- Sustainable refrigerant R290 with a GWP of 3
- Compressors:
  - Scroll compressor for the 6 kW model
  - Dual-rotary compressor for the 12 kW model
- Stepless power adjustment
- Bivalent operation with other energy generators
- Energy-efficient defrosting and cooling through process reversal
- Product dimensions (L x W x H):
  - 1.127 x 508 x 753 mm at 6 kW
  - 1.426 x 563 x 1.083 mm at 12 kW
- Seasonal space heating energy efficiency
  - 35 °C (6 / 12 kW): 212 / 220 %
  - 55 °C (6 / 12 kW): 159 / 165 %
- Heating capacity range
  - A-7/W35: 1,78 - 5,30 kW at 6 kW
    4,00 - 12,50 kW at 12 kW
  - A-7/W55: 1,64 - 4,95 kW at 6 kW
    3,73 - 11,95 kW at 12 kW
- Sound power levels (according to EN 12102, AT/W55 - partial load):
  - 46,1 dB(A) at 6 kW / 47,7 dB(A) at 12 kW
- Sound power level A2/W30 - Point B (according to EN 14825):
  - 49 dB(A) at 6 kW / 51 dB(A) at 12 kW

## commotherm AWP eco - Hydraulic unit

Hydraulic-electrical control technology indoor unit as a wall-mounted console.

### Technical data

- Integrated condenser pump (high-efficiency pump, PWM)
- Switching valve including actuator for switching between domestic hot water production and heating operation
- Flow sensor for heat metering and as a flow monitor
- Connection: 1"
- Membrane safety valve: 1/2"
- Activation pressure: 3 bar
- Safety group, automatic quick air vent, manometer
- With integrated multi-stage electric heating in the flow (2/4/6 kW)
- Housing with pre-wired control panel for wall mounting
- Dimensions (L x W x H): 600 x 269 x 940 mm

# COMMOTHERM SWP

## Ground-water heat pump

HERZ also offers highly efficient heat pump systems that utilize energy from the ground.

**Ground**

The ground serves as a reliable energy source, accessed through surface collectors or deep probes. Surface collectors are installed just below the frost line, typically around 1.2 metres deep, with the required area depending on soil conditions and heating demand. A general rule of thumb is that the collector area should be approximately 1.5 times the heated area. Ground probes utilise the stored heat from depths ranging from several metres to over 100 metres. These probes are filled with a brine/water mixture and absorb the stored heat from the ground, transferring it to the heat pump.

**Long-term Solution**

Natural materials protect the environment and save the operator money: No supply shortages, low operating costs, and a refrigerant whose sustainable use is guaranteed. The lower electricity demand and broader temperature ranges also make natural refrigerants ideal for heat pumps.

**Top application areas**

- ☑ Single & multi-family homes
- ☑ Offices
- ☑ Residential complexes
- ☑ Hospitality / Tourism
- ☑ Shopping centres
- ☑ Healthcare centres
- ☑ Industrial facilities

## HERZ Ground-Water Heat Pump commotherm SWP 13-30

The commotherm SWP heat pump is suitable for heating and hot water production for underfloor and radiator heating systems. It uses ground as an energy source and can optionally be equipped with an additional heat exchanger for passive cooling. The product can heat with flow temperatures of up to 78°C and is ideal for single-family or multi-family homes. The heat pump is operated via a touchscreen graphic display.

The internal housing is tightly and securely designed, while an aesthetic external housing defines the appearance. Special thermal and sound insulation of the compressor ensures additional efficiency improvements and noise reduction. The demand-driven speed control of the compressor also ensures the best efficiency in power delivery and longer compressor runtimes.

### Optional Module for Passive Cooling

In passive cooling, the low temperatures in the ground are directly used to cool the building during the summer. With an additional built-in heat exchanger, the cooling power is transferred to the heating/cooling circuit. The heat pump's compressor is inactive and is available for hot water production during the cooling process.

### Technical data

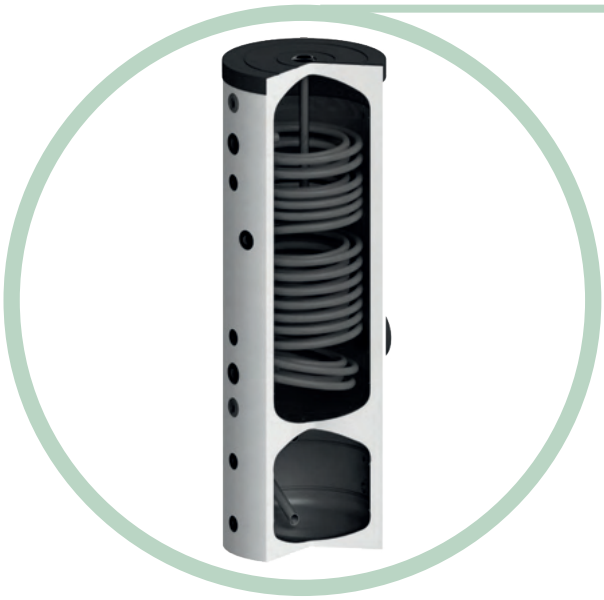
| | |
|---|---|
| Performance range: | 13/19/30 kW |
| Flow temperature: | max. 78 °C |
| Sustainable refrigerant R290 with a GWP of 3 | |
| Energy efficiency: | A+++ |
| Modulation range: | 17 - 100 % |
| Integrated soft start | |
| Bivalent operation with other heat generators | |
| Dimensions (WxHxT): | 700 x 1.000 x 620 mm |
| Sound power level: | max. 47 dB(A) |


Kältemittel R290

A+++

13-30 kW

## In combination



### Double storage

The double storage tank is a space-saving and compact solution for both hot water preparation and buffer storage in one unit, with prioritised hot water preparation. A switching valve ensures that either the hot water tank is heated or the heating system is supplied.

### Technical data

| | |
|---|---|
| Buffer volume: | 100 l |
| Hot water storage tank: | 200 / 320 l |
| Max. operating pressure hot water tank: | 10 bar |
| Max. operating temperature hot water tank: | 95 °C |
| Max. operating pressure buffer tank: | 6 bar |
| Max. operating temperature buffer tank: | 95 °C |
| Max. operating pressure coil: | 10 bar |
| Max. operating temperature coil: | 110 °C |
| Insulation: | PU 50 mm & PVC |
| Corrosion protection with magnesium anode | |

# PELLETSTAR CONDENSATION

## Innovative combustion technology combined with elegant design

The HERZ Pellet Condensing Boiler pelletstar CONDENSATION is highly regarded for its sustainable combustion technology. Available in 6 power sizes ranging from 10 to 60 kW, the system is known for its low emissions and modular construction.

**Condensing Technology**

The condensing technology uses the residual heat in the exhaust gases for heating purposes, resulting in improved efficiency. During pellet combustion, water in the form of steam is generated in the exhaust gases, which usually escapes unused through the chimney. The condensing technology captures this exhaust gas, cooling the water vapour below its condensation temperature, causing liquid condensate to form. This condensate releases heat, which is then reused for heating. As a result, the exhaust gases are naturally cleaned before they are released through the chimney. This technology leads to a further reduction in dust emissions compared to non-condensing pellet boilers.

The system is equipped with a 7" colour touchscreen from the T-Control series, providing easy operation with a simple screen layout.

**Top application areas**

- ☑ Single & multi-family homes
- ☑ Offices
- ☑ Residential complexes
- ☑ Hospitality / Tourism
- ☑ Shopping centres
- ☑ Healthcare centres
- ☑ Industrial facilities

## HERZ Pellet Condensing Boiler pelletstar CONDENSATION

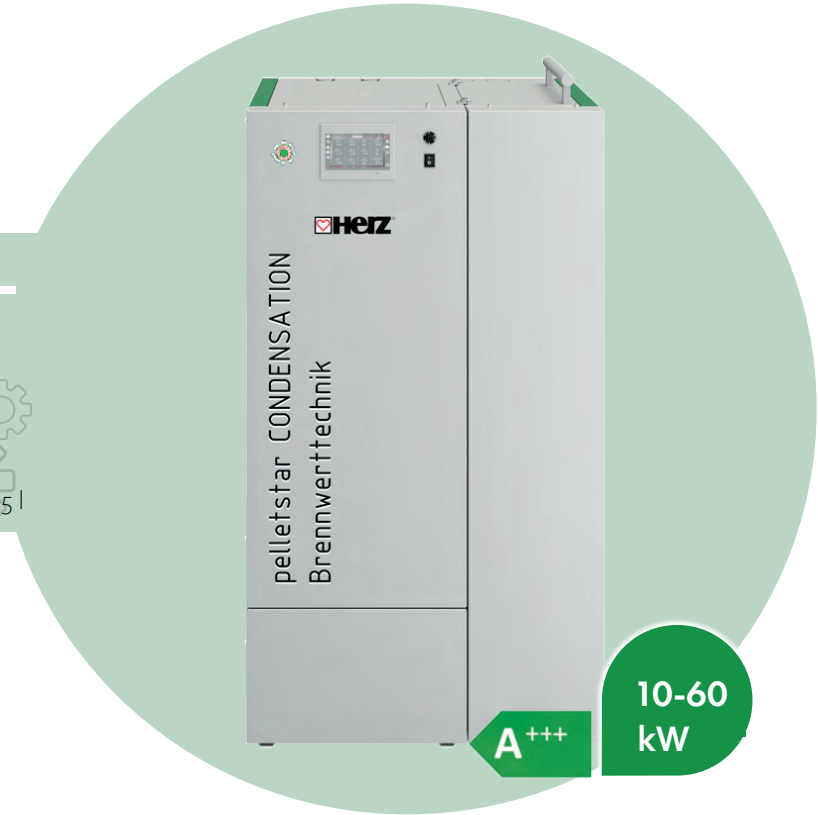
The HERZ pelletstar CONDENSATION is a compact system that offers the ideal solution for both new builds and renovations. Heat distribution can be done via a low-temperature system (underfloor heating) or a high-temperature system (radiators). Depending on the requirements, the pelletstar CONDENSATION can also deliver the right temperature without a buffer tank. Thanks to the intelligent control of the HERZ pelletstar CONDENSATION, the boiler output can be adjusted to match the heat demand.

The complete boiler body, combustion chamber, and heat exchanger are made from high-temperature resistant stainless steel, ensuring the longest possible lifespan. The built-in lambda probe regulates the air and material supply. The automatic cleaning of the heat exchanger surfaces also takes place during operation using a flushing mechanism and integrated turbulators. This results in reduced fuel consumption and low emissions, even with varying fuel qualities.

The system consists of a basic module and 3 different completion packages. Options include a completion version with screw discharge, with an integrated suction container, or with an integrated manual filling container. The integrated suction container holds 56 to 87 liters (depending on the output size), and the integrated manual filling container can hold 106 to 150 liters (depending on the output size).

### Technical data

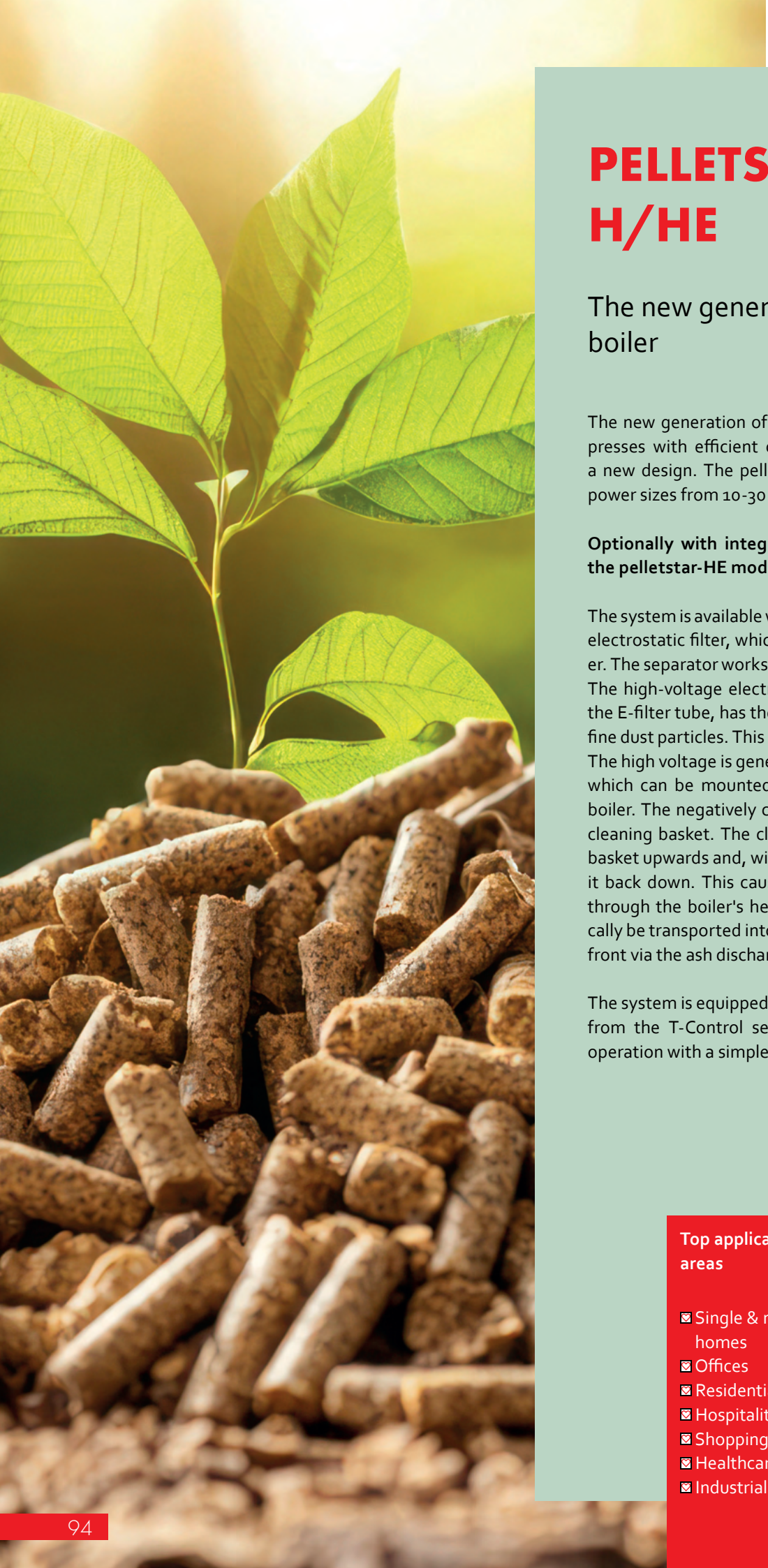
| | |
|---|---|
| Performance range: | 10 - 60 kW |
| Min. permissible operating pressure: | 1,5 bar |
| Max. permissible operating pressure: | 3 bar |
| Max. permissible operating temperature: | 90 °C |
| Delivery pressure (operating pressure): | 8 - 10 Pa |
| Water content (depending on size): | 57,5 / 77 / 135 l |




## In combination


### HERZ Sack silo SP

Sack silos can be used when there is no dedicated pellet storage room. The HERZ Sack silo from the SP series impresses as a clean solution for storing pellets as fuel. The special anti-static polyester fabric prevents dust from escaping the silo, allowing for clean filling and dust-free operation. The galvanized steel frame ensures a long lifespan. The location of the silo can be chosen individually and can even be easily changed after installation. The HERZ Sack silo SP is available in 9 different sizes, offering a capacity of 1.1 - 4 tons of pellets.



# PELLETSTAR-H/HE

## The new generation of the pellet boiler

The new generation of the proven pellet boiler impresses with efficient combustion technology and a new design. The pelletstar-H/HE is available in 5 power sizes from 10-30 kW.

**Optionally with integrated electrostatic filter in the pelletstar-HE model.**

The system is available with or without an integrated electrostatic filter, which can also be retrofitted later. The separator works on an electrostatic principle. The high-voltage electrode, positioned centrally in the E-filter tube, has the task of negatively charging fine dust particles. This process is called "ionization." The high voltage is generated by a separate module, which can be mounted on the left or right of the boiler. The negatively charged particles stick to the cleaning basket. The cleaning mechanism pulls the basket upwards and, with the help of a spring, drops it back down. This causes the dust particles to fall through the boiler's heat exchanger and automatically be transported into the ash box mounted at the front via the ash discharge screw.

The system is equipped with a 7" colour touchscreen from the T-Control series, providing comfortable operation with a simple screen layout.

**Top application areas**

- ☑ Single & multi-family homes
- ☑ Offices
- ☑ Residential complexes
- ☑ Hospitality / Tourism
- ☑ Shopping centres
- ☑ Healthcare centres
- ☑ Industrial facilities

## HERZ Condensing Boiler pelletstar-H/HE 10-30 kW

The HERZ pelletstar-H/HE impresses with its modular design as a space-saving solution for underfloor heating and radiators. The integrated lambda sensor controls the air and material supply. The system also features a flow sensor for energy supply indication. Optionally, a built-in return lift group in the boiler can be selected as a space-saving option. The high-temperature-resistant stainless steel combustion chamber is automatically cleaned using a tipping grate system and ensures optimal air supply with a clean combustion grate. The automatic cleaning of the heat exchanger surfaces also takes place during heating operation through a flushing mechanism and integrated turbulators. The result is lower fuel consumption and low emissions, even with different fuel qualities.

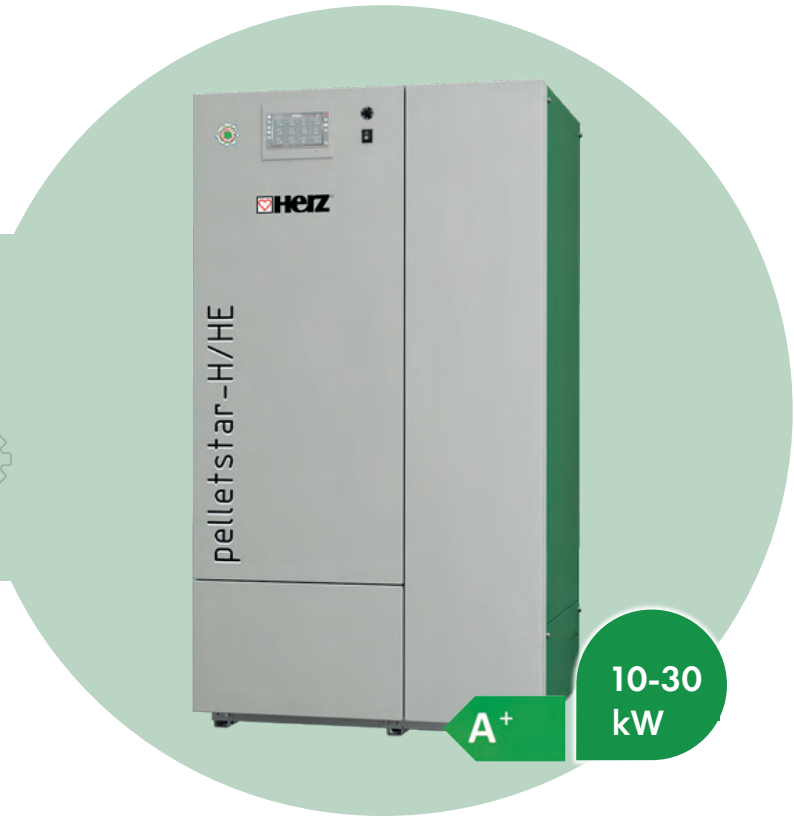
The system consists of a basic module and three different completion packages: screw discharge, suction discharge with integrated suction container, and manual filling variant with an integrated manual filling container. The integrated suction container holds 56 litres and the integrated manual filling container has a volume of 106 litres.

Additionally, the pelletstar-H/HE offers a variety of pellet discharge systems and storage systems for fuel storage when no pellet storage room is available. Heating with pellets is also beneficial for the environment due to the $CO_2$-neutral combustion.

The system comes with a 7" colour touchscreen display from the T-Control series, providing convenient operation with an easy-to-use screen layout. Optionally, the system can also be controlled via smartphone.

### Technical data

| | |
|---|---|
| Performance range: | 10 - 30 kW |
| Max. permissible operating pressure: | 3 bar |
| Max. permissible operating temperature: | 90 °C |
| Boiler efficiency ΔT = 20 K full load: | 93,4 - 95,7 % |
| Boiler efficiency ΔT = 20 K partial load : | 94,0 - 94,6 % |
| Volume of integrated suction container: | 56 l |
| Volume of integrated storage container: | 106 l |




### In combination

### Pellet Steel Tank

The HERZ Pellet Steel Tank can be used when there is no dedicated pellet storage room available. The product impresses with its modular design and optimal use of space. Thanks to the intelligent modular system, the tank can be transported in individual parts and easily assembled on-site, allowing for flexible adaptation to different room layouts. The freestanding storage system made of galvanized steel sheet does not require floor or wall mounting, ensuring dry and secure pellet storage. Filling is clean and efficient through simultaneous suction via the filling nozzles. Thanks to the variable module sizes and adjustable connections, the tank can be perfectly tailored to individual requirements, offering a storage capacity of 4.4 - 9.6 tons of pellets.

HERZ®

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