Herz®

PRODUCT HIGHLIGHTS | 2024

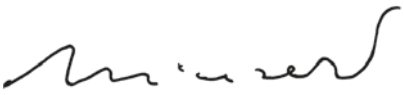
CONTENT

Dear customers and partners, dear friends of HERZ!

In a time characterized by challenges for the building technology industry that we have not experienced for a long time, we look back on 2023 and can proudly say that we have successfully passed with dedication, hard work and commitment. Nevertheless, the state and companies continue to face massive challenges, be it from wars, inflation or migration from other cultures. The persistence of these global challenges is reminiscent of the biblical metaphor from the Old Testament, in which seven fat years are followed by seven lean years. Just as the Egyptian pharaoh once filled the storehouses in the good years on the advice of Joseph, we as a company have also invested with foresight, modernized and pushed ahead with product developments. Despite the empty state coffers, we are optimistic and ready to face the difficult years ahead.

Our established international presence and participation in trade fairs in emerging markets such as Kenya, Ethiopia and Libya in 2023 not only reinforce our current international success story, but also underline our determination to continue expanding our market and securing success worldwide. We have numerous national and international trade fairs coming up in 2024, which will give us the opportunity to present our extensive product range to a wide audience.

The path to new markets may be arduous and demanding, but we believe in success and are confident that we will successfully master the challenges ahead of us with outstanding products and Austrian charm. We cordially invite you to take a look at our latest product highlights and look forward to shaping the future of building technology with you.



Gerhard Glinzerer

Note: To improve readability, the masculine form is used for personal nouns, which of course refers to both the feminine and all other gender identities.

HERZ Product highlights 2024

Media owner, publisher: Herz Armaturen Ges.m.b.H.
A-1230 Vienna, Richard-Strauss-Strasse 22
Website: www.herz.eu I E-mail: office@herz.eu I Tel: +43 1 616 26 31-0
Editor: Nurgül Akbas

HERZ GROUP

the Heart of technology

Modern technology means less energy consumption with the same or greater comfort.

The Austrian HERZ Group, which focuses on energy efficiency and the associated production of biomass systems, heat pumps, fittings, district heating stations, control technology and insulation materials, supplies the products for the required measures and is uniquely structured in this form in Europe. The HERZ Group has 43 production sites in 12 European countries, and is active worldwide and employs over 3,500 people.

The full-service provider for renewable energy systems

Decades of experience and specialization in the fields of heating and control technology, fittings and heat distribution provide the basis for the development of innovative products with successful solutions in technology and design. The company headquarters in Vienna is the HERZ centre of production and innovation. Today HERZ is a full-range supplier for the HVAC industry. All products are manufactured in Europe in order to meet the quality demands placed on HERZ products.

HERZ Energietechnik

With the most modern pellet and wood chip heating systems up to 1500 kW (with cascade operation up to 4500 kW), wood gasification boilers up to 40 kW and heat pumps up to 40 kW, HERZ offers a complete range of modern, cost-effective and environmentally friendly heating systems with the highest level of comfort and user-friendliness.

The Austrian heating technology specialist attaches great importance to the further development of products and the generation of new technologies. Even systems that are already successfully established on the market are constantly being expanded and optimized to keep up with the modern times.

BINDER - Biomass plants up to 20 megawatts

The wide range of products offered by BINDER - a 100% subsidiary of the HERZ Group - perfectly complements the existing product range in the biomass sector. Systems up to 20,000 kW are offered, making HERZ an interesting partner for private, commercial and industrial customers. In addition to conventional hot water heating systems, hot water and saturated steam systems and hot air drying systems are also produced.

FITTINGS

Fittings, control and thermostatic valves for heating, cooling, sanitary and gas installations

Herz®

BIOMASS PLANTS / HEAT PUMPS

Full-service provider for renewable energy systems

Herz® Energietechnik

binder

INSULATING MATERIALS

EPS products as thermal insulation and for underfloor heating in building services

HIRSCH Servo

1896

Franz Gebauer and Viktor Lehrner found "Gebauer & Lehrner" and start manufacturing fittings in Herzgasse in Vienna's Favoriten district.

1950 - 1973

Where there's heating, there's HERZ. The motto for the coming decades. Specialization in heating fittings.

1986 - 1989

New construction of the company headquarters and relocation to Richard-Strauss-Strasse 22, 1230 Vienna.

1990 - 1999

Establishment of numerous sales companies and development of a global market presence.

Photo: HERZ

Burj Khalifa, UAE

For this project HERZ supplied various HVAC valves for the world's tallest building, including combi-valve volume flow controllers and associated actuators, which play an important role in reducing energy consumption while ensuring an optimum building temperature.

Photo: opera.hu

Opera House, Hungary

The Hungarian State Opera underwent a complete renovation. As part of the renovation work, HERZ supplied static and dynamic control and regulating valves, making a significant contribution to optimizing the use of hydraulic energy in this magnificently renovated work of art, the Hungarian State Opera.

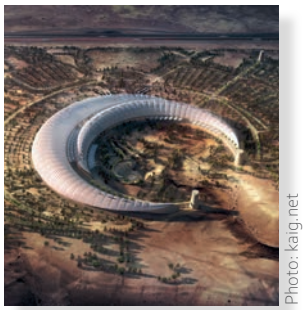


Photo: kaig.net

King Abdullah International Garden, Saudi Arabia

A botanical garden in the middle of the arid desert. The project aims to draw attention to the consequences, process and research of climate change. From small valves to flanged fittings and precision fittings, HERZ products were used extensively in this project and enable the climate required and desired for the plants.

the Heart

650 Mil

Euro annual turnover

3.500

Employees worldwide

from 2000

New construction of factories and takeover of manufacturers of technical building equipment at home and abroad.

2010

Foundation of HERZ Energietechnik in Pinkafeld and acquisition of Binder Energietechnik.

2014

Acquisition of the majority of shares in the Hirsch Servo Group, based in Glanegg, and the Styrian biomass plant manufacturer Binder.

2024

Today, with 43 production sites, 50 subsidiaries, 3,500 employees worldwide and an annual turnover of 650 million Euros, the HERZ Group is one of the most successful companies in the industry.

of technology

43
Production facilities in 12 European countries

50
Subsidiaries

Erste Campus, Austria

The Erste Campus is part of the large-scale project "Quartier Belvedere" in Vienna Favoriten. HERZ supplied all the HVAC valves for this project, including fittings, thermostatic valves and balancing valves. The special thing about this project is that HERZ was actively involved in the commissioning. This project was designed by Henke Schreieck architects.

Photo: HERZ

Pullman Center, Vietnam

In order to achieve optimum energy efficiency, HERZ has equipped the 5-star hotel with balancing valves and differential pressure controllers. The hotel offers the highest level of comfort in 306 unique rooms and has high-tech conference rooms for up to 500 guests in addition to numerous gastronomic facilities, a spa and swimming-pools.

Photo: HERZ

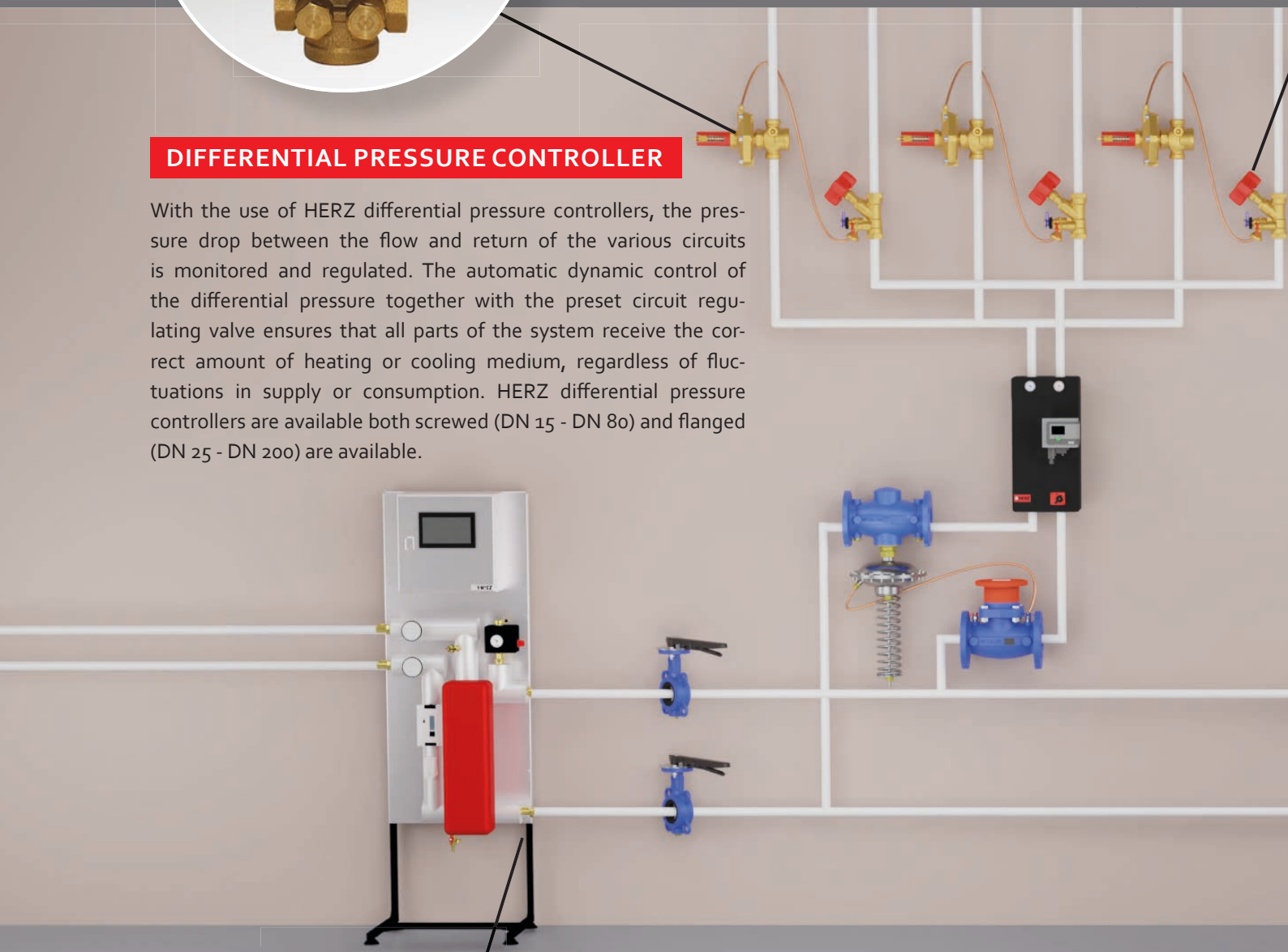
Sofitel Hotel Resort & Spa, Fiji Islands

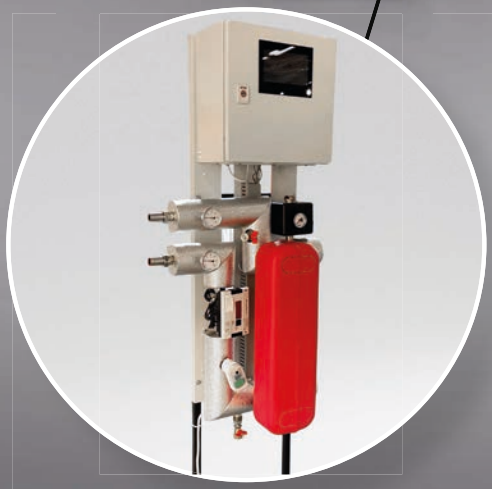
HERZ provided the cooling system and PICV assured comfort in guests' rooms for the multi-million pound extension to the hotel. The project also included many other chilled water valves, such as balancing valves and isolation valves, which ensure that all consumers throughout the building are hydraulically balanced and properly cooled.

Photo: sofitel-fiji.com

DIFFERENTIAL PRESSURE CONTROLLER

With the use of HERZ differential pressure controllers, the pressure drop between the flow and return of the various circuits is monitored and regulated. The automatic dynamic control of the differential pressure together with the preset circuit regulating valve ensures that all parts of the system receive the correct amount of heating or cooling medium, regardless of fluctuations in supply or consumption. HERZ differential pressure controllers are available both screwed (DN 15 - DN 80) and flanged (DN 25 - DN 200) are available.





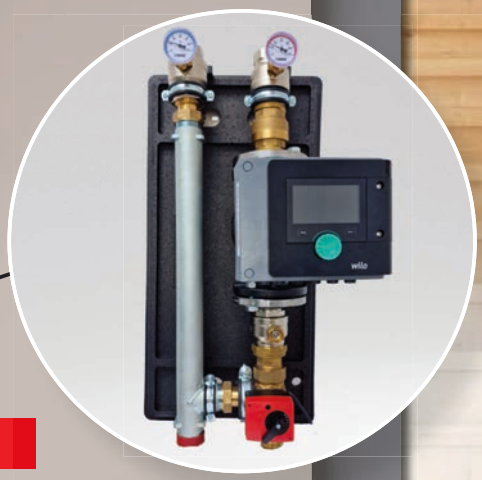
DISTRICT HEATING TRANSFER STATION

HERZ offers various models of district heating transfer stations. While the compact district heating transfer stations are available up to 200 kW, HERZ also manufactures district heating transfer stations with outputs of up to 4 MW on customer request.

The HERZ district heating transfer station 35 kW - 200 kW stands out in particular with its compact design. The primary-side fail-safe drive contributes to safety and reliability in the event of a power failure. The pre-installed safety group on the secondary side with automatic deaerator, pressure gauge and 3 bar safety valve ensures proper functioning. The district heating transfer station is available in output sizes 35 kW - 200 kW.

BALANCING VALVE

HERZ balancing valves enable precise control of the flow of heating or cooling medium in individual lines. This creates the required resistance on each circuit, ensuring that all consumers in the system receive the required energy supply. In combination with HERZ differential pressure controllers, they ensure hydronic balancing. HERZ balancing valves are available both screwed (DN 15 - DN 80) and flanged (DN 25 - DN 500).



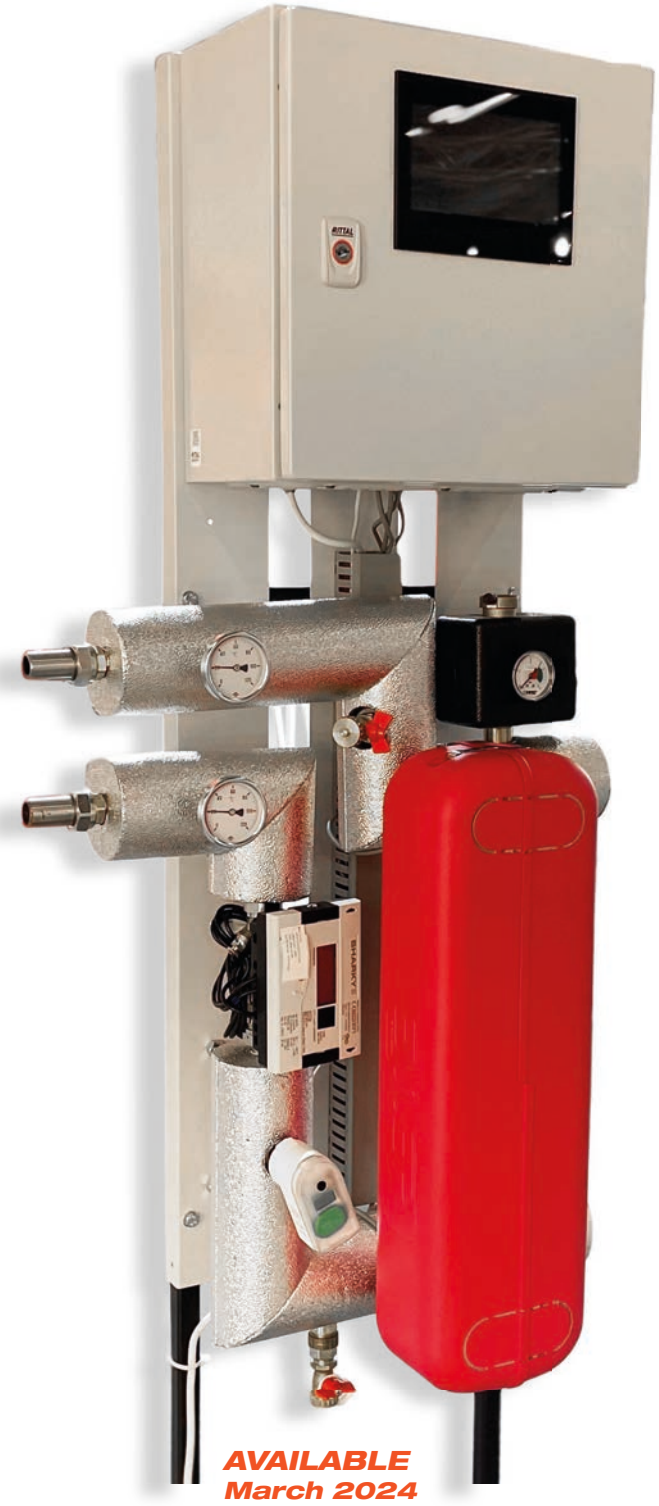
PUMPFIX

HERZ PUMPFIX connection groups are compact system units with isolation valves and control devices for connecting energy generators and supply circuits in building services. Circulation pump, isolation valves, temperature indicator, non-return valve, spacer, mixing valve with manual adjustment and 3-point actuator are installed in a compact connection set with insulating shell. Depending on the application, PUMPFIX is available from DN 20 - DN 50.

PRESSURE INDEPENDENT CONTROL VALVE

HERZ pressure independent control valve is a fully pressure-relieved automatic control and regulating valve and reacts independently to changing flow and pressure conditions in the heating and cooling system. It combines the functions of a control valve, regulating valve, differential pressure controller, isolation valve and pressure flow measurement device. The combination valve automatically limits the volume flow in the selected system section to the set value by detecting and regulating all pressure fluctuations. In this way, HERZ pressure independent control valves not only save space and costs but also ensures energy efficiency. HERZ pressure independent control valves are available both screwed (DN 15 - DN 80) and flanged (DN 50 - DN 250).

HERZ district heating transfer stations play a central role in the efficient distribution of heat in residential and industrial buildings. As the link between the district heating network and the consumers, the district heating transfer station transfers and measures the amount of heat supplied and enables integration into a remote monitoring and control system. Its benefits are of great importance both for the environment and for consumers.



HERZ district heating transfer station 35kW - 200 kW

Primary:
Max. operating temperature: 110 °C
Max. operating pressure: 16 bar

Secondary:
Max. operating temperature: 80 °C
Max. operating pressure: 3 bar

The advantages of a district heating transfer station are numerous and not just limited to reduced greenhouse gas emissions. By distributing heat evenly, HERZ district heating transfer stations contribute to the efficient use of energy. This serves to reduce energy consumption and the associated costs. The result: satisfied customers and a sustainable and efficient energy supply.

HERZ District heating transfer station 35 kW - 200 kW

HERZ offers various models of district heating transfer stations. The HERZ district heating transfer station 35 kW - 200 kW stands out in particular with its compact design. The model is ideal for supplying single and multi-family homes, but also for commercial enterprises and is available in 4 different output groups:

- 35-55 kW
- 45-90 kW
- 75-150 kW
- 100-200 kW

The fail-safe drive on the primary side contributes to safety and reliability in the event of a power failure. In this case, it closes the pressure independent control valve and thus protects the system from overheating or overpressuring.
The pre-installed safety group on the secondary side with automatic air vent, pressure gauge and 3 bar safety valve ensures proper functioning and provides overpressure relief. This prevents damage to the district heating transfer station or other system components.

Less heat loss through high quality insulation

A special feature in addition to the technical aspects is the high-quality insulation of the district heating transfer station.
The stainless steel heat exchanger is insulated with precisely fitting rigid foam polyurethane insulation. Due to its closed-cell structure, this type of insulation offers a high thermal insulation capacity and helps to reduce heat loss. All pipe sections are insulated with PU foam and aluminum coarse-grain lamination.
The customized and finished insulation kit is supplied with the product and provides energy benefits and visual elegance.

The new HERZ district heating transfer stations therefore make a significant contribution to reducing energy consumption, protecting the environment and ensuring a reliable heat supply.

Individual designs

In addition to the floor model, HERZ also offers two other models depending on the area of application. Basically, the following applies: On the primary district heating side, the output of all district heating transfer stations is controlled electronically. The installation of a heat meter is

prepared. Depending on the model and customer requirements, outputs from 20 kW to 4 MW can be transferred. A modular system makes it possible to react quickly to different customer requirements using standard modules.

Adaptation to customer needs

Each station is planned and produced in accordance with the technical guidelines of the district heating provider and can also be manufactured according to special requirements. The dimensions can be adapted to the intended installation location. The compact design and good accessibility of components enable user-friendly maintenance. Special attention is paid to user training by HERZ specialists for the operation and maintenance of the district heating transfer station.

HERZ district heating transfer station 20 kW - 4 MW

AVAILABLE

From single and multi-family homes to large plants and businesses, HERZ district heating transfer stations knows no limits. The standard model includes a heat exchanger (soldered or screwed), a combination valve, an electric actuator, an ultrasonic flow meter, a circulation pump (speed-controlled), temperature and pressure measuring devices, strainer, non-return valves and a safety valve. Depending on the location and customer requirements, the HERZ district heating transfer station can transfer up to 4 MW of power. The operating parameters can also be adapted.

Primary:
Max. operating temperature: 150 °C
Max. operating pressure: 25 bar

Secondary:
Max. operating temperature: 95 °C
Max. operating pressure: 16 bar

HERZ district heating transfer station 12 kW - 30 kW

AVAILABLE October 2024

Compact and fully equipped district heating transfer station with all necessary components, safety devices and control technology up to 30 kW output. Ideally suited for detached houses and apartment buildings looking for a compact solution, as this station integrates hot water preparation and heating circuits on the secondary side ready for connection. The control system with all sensors and actuators is pre-wired. One or two low-temperature heating circuits as well as high-temperature heating circuits or one low-temperature and one high-temperature heating circuit can be implemented.

Primary:
Max. operating temperature: 110 °C
Max. operating pressure: 16 bar

Secondary:
Max. operating temperature: 70 °C
Max. operating pressure: 3 bar

AVAILABLE
HERZ PUMPFIX Mix
Order number: 1 **4514/4511** XX

Pumps play a central role in heating and cooling systems. They ensure that the water is transported from the heat source to the radiators or panel heating systems. The choice of pump and optimally coordinated control contribute to the energy efficiency and performance of the system. However, to ensure smooth operation and efficient circulation, the system requires a large number of other components around the pump, such as shut-off ball valves, thermometers, non-return valves, regulating valves, mixers, etc. However, planning and installing individual components requires a lot of time and space. HERZ PUMPFIX is the compact and time-saving solution for every system.

The indispensable product for the heating system

HERZ PUMPFIX connection groups are compact system units with isolation and safety valves as well as control and regulation devices for connecting energy generators and supply circuits in building services engineering. The components in HERZ PUMPFIX are part of every system, but installing the individual parts takes a lot of time and space, both in planning and in implementation.

Circulation pump, isolation valves, temperature indicators, non-return valves, mixing valve with manual adjustment and 3-point actuator, diaphragm safety valve and air vent valves are essential components of a functional system. It's enough to make you lose your breath just reading about it, the assembly of the individual parts is hard to imagine. That's why HERZ offers the compact PUMPFIX system unit.

Equipped for every situation

The PUMPFIX product family consists of several members that are specially prefabricated for each heating situation. All pump groups can be ordered with or without an electronic circulation pump. Thermal insulation for all pump groups is provided by the tailor-made insulation box. HERZ offers a wide range of accessories for the pump groups. From manifolds made of sheet steel in a two-chamber system, overflow valve for installation between the flow and return, hydraulic separator made of sheet steel, connection set made of corrugated pipe, mounting brackets for holding pressure expansion vessels through to actuators, HERZ offers all the necessary accessories in European quality.

DN 20 - DN 50

PUMPFIX Mix

Pump group for electronic control of the heating circuit temperature. Ideal for modern systems with surface heating or combined heating systems. HERZ PUMPFIX Mix has a mixer motor for 3-point control. This means that the system is ideally prepared for different heating conditions (full load and partial load) and works efficiently at all times.

Components:

- ☑ Thermometer ball valves with isolation valve (0 - 120 °C)
- ☑ Overflow valve (accessory)
- ☑ Spacer with non-return valve
- ☑ 3-way mixer with bypass (DN25)
- ☑ Mixer motor for 3-point control
- ☑ Thermal insulation
- ☑ Distance VL/RL: 125 mm

AVAILABLE
Order number: 1 **4514/4511** 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 an isolation valve as a connecting part.

Components:

- ☑ Thermometer ball valves with isolation valve (0 - 120 °C)
- ☑ Spacer with non-return valve
- ☑ Connecting piece with shut-off valve
- ☑ Thermal insulation
- ☑ Distance VL/RL: 125 mm

AVAILABLE
Order number: 1 **4510/4514** 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.

Components:

- ☑ Thermometer ball valves with isolation valve (0 - 120 °C)
- ☑ Spacer with non-return valve
- ☑ Mixing valve with thermostatic head with contact sensor
- ☑ Thermal insulation
- ☑ Distance VL/RL: 125 mm

AVAILABLE
Order number: 1 **4514** XX

DN 20

PUMPFIX Solar

Pump group for solar systems.

Components:

- ☑ Thermometer ball valves with isolation and non-return valve (0 - 150 °C)
- ☑ Connection for expansion vessel
- ☑ Flow rate regulator 4 - 24 l/min
- ☑ With sight glass and drain
- ☑ Spacer with air vent
- ☑ Incl. 6 bar safety valve and pressure gauge
- ☑ Thermal insulation

AVAILABLE
Order number: 1 **4513** XX

In the world of heating and cooling systems, the interaction of different components is crucial to ensure smooth and efficient operation. The multitude of pipes and valves in these systems with different consumers requires precise regulation to achieve the desired temperature and performance. The expression "we all pull together", often used to describe teamwork and unity, can also be applied to the world of HVAC systems in the truest sense of the word. Here, balancing valves are at the heart of this collaboration and play a crucial role in optimizing system performance.

Water always takes the path of least resistance. It therefore needs the support or control of system components to find the desired path. A controlled heating and cooling system is essential, especially in large residential complexes with several consumers. HERZ balancing valves are used for this purpose. Ideally, these are used per line to enable precise control of the flow of heating or cooling medium in individual lines. This creates the required resistance for the water on each line, ensuring that all consumers in the system receive the required energy supply.

HERZ Balancing valves

HERZ has a wide range of products from balancing valves with differential pressure measurement in straight seat form to balancing valves with orifice plate and impulse line connection in angle seat form, with a choice of rising or non-rising stem. HERZ balancing valves are available from DN 15 to DN 500.

AVAILABLE

Order number: 1 **4218** XX

HERZ STRÖMAX-GF Straight seat flanged balancing valve with measuring valves.

The perfect partner for hydraulic balancing

The balancing valve is the perfect partner for the differential pressure controller to ensure hydronic balancing. The use and precise cooperation of balancing valves together with differential pressure regulators prevents overheating or undercooling of individual rooms. The optimized distribution of heat or cold in the rooms not only improves energy efficiency, which automatically reduces operating costs, but also prevents the problem of noise emissions.

HERZ Control valves in angle seat design (DN 15 - DN 500)

AVAILABLE

4017 M

- Built-in orifice plate for accurate measurement
- Faster commissioning - no need to re-enter the settings in the measuring computer
- Ergonomic handwheel with digital display of the setting; concealed locking of the presetting
- Easily accessible measuring connections on the handwheel side
- Triple O-ring seal for maintenance-free operation and long service life
- Insulating shells and extended measuring valves available
- Non-rising stem

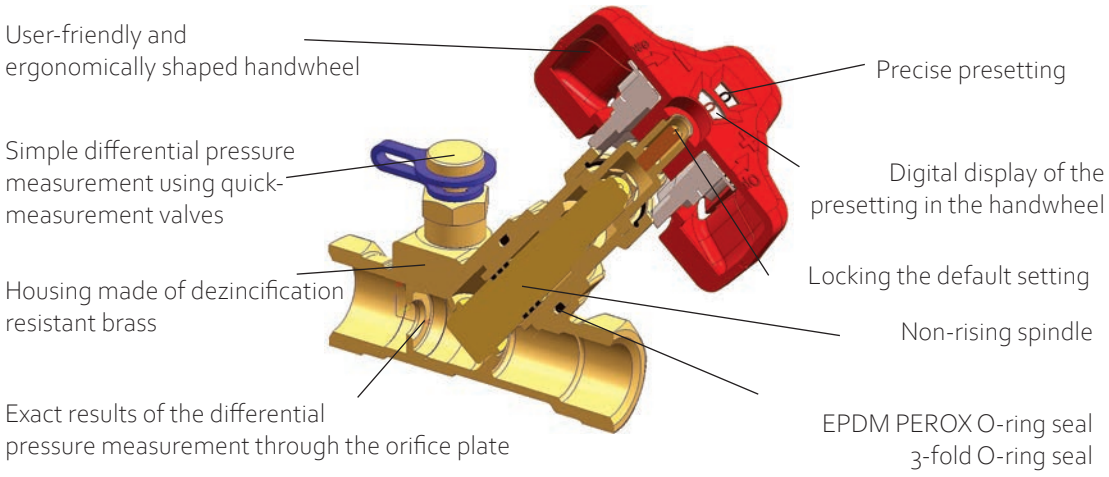
4017 ML

4017 R

Made of dezincification-resistant brass.

Max. operating temperature: 130 °C (up to DN 32), 110 °C (from DN 40)

Max. operating pressure: 16 bar / 20 bar /25 bar



HERZ STRÖMAX Straight seat balancing valves (DN 15 - DN 300)

AVAILABLE

4217 GM

- High flow capacity, linear characteristic curve
- Ergonomic handwheel with digital display of the setting
- Pre-setting lock concealed under the fastening screw, optionally concealed under a seal
- Easily accessible measuring connections on the handwheel side
- Double O-ring seal for maintenance-free operation and long service life
- Non-rising spindle

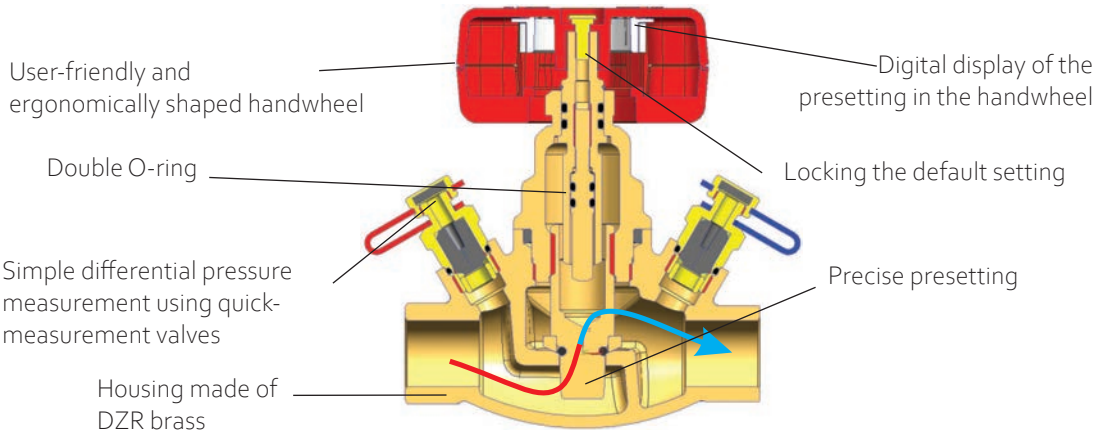
4217 GML

4217 GN

Made of dezincification-resistant brass.

Max. operating temperature: 130 °C (up to DN 32), 110 °C (from DN 40)

Max. operating pressure: 16 bar / 25 bar



The continuous adjustment of the necessary differential pressure of a system is of crucial importance in building services engineering to ensure that heating or cooling systems function properly. With static valves, only one single operating state (usually full load operation) can be optimally ensured. However, the majority of a system's operating time normally falls within the partial load range. This means permanent pressure and flow rate changes in the system. If the differential pressure is too high, this can lead to excessive energy consumption and overheating. On the other hand, a low differential pressure leads to insufficient heating or cooling of the rooms. Dynamic differential pressure controllers play an important role here. They ensure that the desired temperatures are achieved in the various rooms of a building by reacting independently to changing flow and pressure conditions. This ensures that the system runs efficiently and in a balanced manner.

1 Automatic control

Differential pressure controllers control the pressure difference between the flow and return of a system by adjusting the flow of the heating or cooling medium in a system to the correct pressure. If a thermostatic valve on the radiator is closed, there is a lack of resistance in the system, which means that other parts of the system receive more flow. The differential pressure controller reacts automatically to these changes and opens or closes depending on the system situation. This ensures that all parts of the system are supplied with the required amount of energy at all times.

2 Increased efficiency

The automatic adjustment of the differential pressure and thus the flow rate in the system prevents over- or undersupply of system components. This ensures energy-efficient operation and leads to a lower environmental impact.

3 Hydraulic balancing

Differential pressure controllers also play an important role in hydronic balancing. Hydronic balancing is a process in which the flow of heating or cooling water in the various parts of a system is adjusted so that each room or area receives the required amount of heating or cooling. This is done by adjusting the differential pressure. Differential pressure controllers ensure that the correct pressure difference is maintained to ensure the required flow in the system.

4 Energy and cost savings

The use of differential pressure controllers and the associated guarantee of hydraulic balancing can significantly reduce energy consumption in heating and cooling systems. This leads to lower operating costs.

5 Comfort

Excessive differential pressure in the system can lead to noise in pipes and fittings. The use of differential pressure controllers prevents the heating medium from flowing through the pipes at too high a speed and prevents the formation of noise. In addition, uniform heat distribution in a system leads to satisfied customers, as all residents in all rooms receive the desired room temperature.

HERZ offers a wide range of dynamic differential pressure controllers. There are types with an adjustable differential pressure range, with a fixed differential pressure setpoint and versions with a connection thread for drives.

AVAILABLE
Order number:
1 **4202** XX

HERZ Differential pressure controller screwed, DN 15 - DN 50

AVAILABLE
Order number:
F **4007** XX

HERZ Differential pressure controller in flange design DN 65 - DN 200

HERZ Differential pressure controller with adjustable setpoint

AVAILABLE

4002

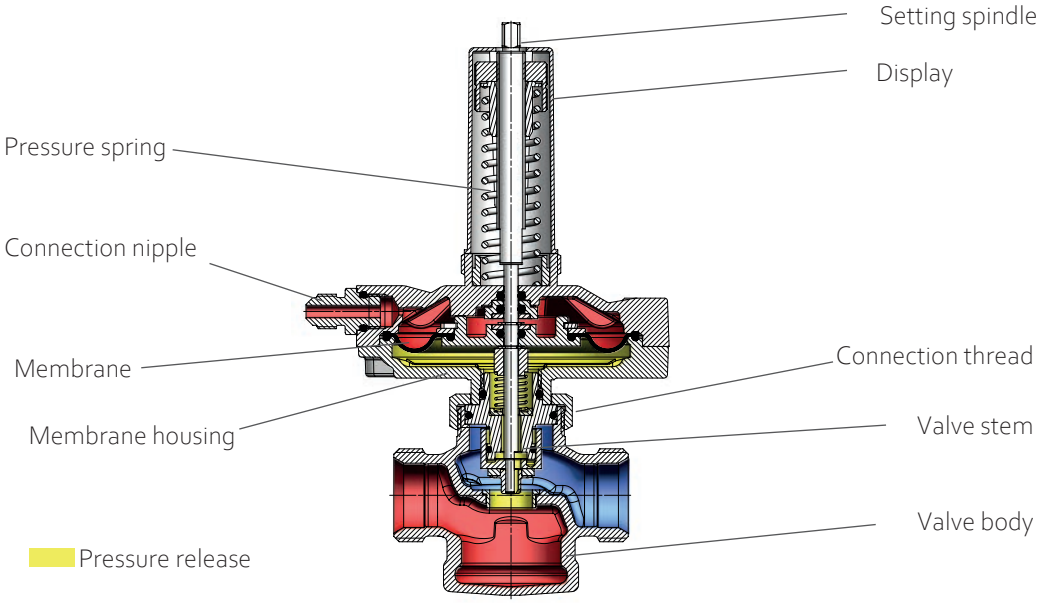
HERZ differential pressure controllers with adjustable setpoint can be adjusted to the desired or required setpoint by simple operation. All differential pressure controllers are supplied with an impulse line.

- ☑ Compact, effective valve with pressure relief
- ☑ Simple, easy to read presetting
- ☑ Screwed DN 15 - DN 50, flanged DN 25 - DN 200 threaded socket or external thread
- ☑ Control ranges between 5 - 150 kPa

Max. operating temperature: 130 °C (up to DN 32), 110 °C (from DN 40)
Max. operating pressure: 16 bar (with internal thread, screwed and flanged), 25 bar (with external thread, screwed)

4202

4007 F



HERZ Differential pressure controller with fixed setpoint value

AVAILABLE

HERZ offers three variants of differential pressure controllers with a fixed setpoint:

4007 F FIX

HERZ Differential pressure controller FIX:
The fixed setpoint of 23 kPa makes installation and commissioning much easier, as no additional fine adjustment is required. The product is available screwed or flanged available from DN 15 - DN 80.
Max. operating temperature: 130 °C (bis DN 32) bzw. 110 °C (ab DN 40)
Max. operating pressure: 16 bar / 25 bar

4202 FIX TS

HERZ Differential pressure controller FIX TS:
If the valve of the differential pressure controller is to be used as a zone valve or if a limitation of the flow from outside the circuit is desired, nothing is better suited than HERZ differential pressure controller FIX TS. The product can be fitted with an actuator to be used as a zone valve or to control the flow through the circuit.HERZ FIX TS differential pressure regulators are available in screwed versions from DN 15 - DN 50 with a fixed setpoint of 23 kPa or 50 kPa.
Max. operating temperature: 130 °C (bis DN 32) bzw. 110 °C (ab DN 40)
Max. operating pressure: 16 bar / 25 bar

4007 FIX WE

HERZ Differential pressure controller FIX WE:
The excellent control behavior of the 4007 differential pressure controller has been proven by its approval as a "Class A" product from **Wien Energie**. The differential pressure setpoint is fixed at 23 kPa for the WE versions. The product is available in a screwed version from DN 15 - DN 80.
Max. operating temperature: 95 °C
Max. operating pressure: 10 bar

District heating valves

For temperatures up to 150°C and pressures up to 25 bar

HERZ not only offers transfer stations for district heating, but also valves. These have been specially adapted to the requirements of district heating and can be used at temperatures of up to 150 °C and pressures of up to 25 bar. From differential pressure controllers to pressure independent control valves: HERZ offers district heating valves in both screwed and flanged versions.

District heating valves are installed on the primary side in house transfer stations in the district heating network. The advantage is that the application range is guaranteed for temperatures up to 150 °C and pressures up to 25 bar. This is ensured by special EPDM (ethylene propylene diene monomer rubber) seals. The installation dimensions adapted to the market allow easy installation in existing systems. HERZ district heating valves are tested at the Graz University of Technology and impress with their quality. Initially, the valves will be available in sizes DN 15 to DN 100. Depending on the dimension, screwed or flanged versions are available. Whether differential pressure controllers and 2-way valves or combination valves, HERZ offers the right product for every customer requirement.

HERZ Pressure independent control valve

AVAILABLE
depending on DN from October 2024

Order number: D **H406** XX

The combination valves are intended for installation in the primary side of district heating transfer stations. The pressure-independent control and regulating valve is a combination of a control and regulating valve with a differential pressure controller. The desired flow rate 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 rate are recommended.

Max. operating pressure:	25 bar (up to DN 65); 16 bar (from DN 80)
Max. diff. pressure at the housing:	20 bar (up to DN 25, screwed/ up to DN 65 screwed) 16 bar (up to DN 32, screwed) 15 bar (up to DN 80, screwed)

HERZ 2-way valve

AVAILABLE
depending on DN from October 2024

Order number: D **H035** XX

The pressure-balanced 2-way valve is primarily used to control the volume flow in district heating and HVAC systems. It can also be used to open and close pipes. Water in the temperature range from 2 °C to 150 °C can be used as the flow medium. The balanced 2-way valve can be used in almost all heating, ventilation and air conditioning systems as well as in industrial and technological processes. The valve characteristic is equal percentage.

Max. operating pressure:	25 bar (up to DN 65); 16 bar (from DN 80)
Max. diff. pressure at the housing:	2 bar

HERZ Differential pressure controller for district heating

AVAILABLE
depending on DN from October 2024

Order number: D **H402** XX

HERZ differential pressure controllers can be used for the primary side of district heating transfer stations to ensure a constant differential pressure over the control range in the flow or return. The differential pressure controller is a straight-seat regulator and operates without auxiliary energy. The desired differential pressure setpoint can be set between 50 kPa and 150 kPa. The set value can be read off using the setting diagram. Two impulse lines are included in the scope of delivery; these must be connected in the flow and return.

Max. operating pressure:	25 bar (up to DN 65); 16 bar (from DN 80)
Max. diff. pressure at the housing:	20 bar (up to DN 65); 15 bar (from DN 80)

HERZ Pressure independent 6-way control ball valve

For the control of heating and cooling systems

The requirements in building technology are constantly increasing. Heating and cooling are not only used in combination in new buildings, but are also popular in renovations to meet the individual needs of users. HERZ pressure independent 6-way control ball valve is the ideal product for the precise control of heating and cooling functions in systems. The versatile control valve, which also functions as a changeover valve, enables efficient adaptation to the various needs of end users thanks to the integrated differential pressure regulator. The automatic changeover depending on the selected function ensures that heating and cooling are seamlessly and effectively combined to maximize comfort in buildings.

The HERZ pressure independent 6-way control ball valve can be used to control heating/cooling ceilings and fan coils in 4-pipe systems. It can be used as a control valve or changeover valve. The HERZ pressure independent 6-way control ball valve is used in heating and cooling systems, e.g. in supermarkets, office complexes, public buildings, but also in residential complexes, etc.. An electric rotary actuator is used to switch between heating and cooling. The internal safety function prevents an unintentional increase in pressure. The HERZ pressure independent 6-way control ball valve is a combination of a 6-way valve, regulating ball valve and pressure independent control valve.

A ball valve with several functions

The installation of a HERZ pressure independent 6-way control ball valve reduces the number of valves required for switching and regulating the system. With a 90° turn of a rotary actuator, both the heating/cooling changeover and the regulation of the heating side and the cooling side can be carried out. The integrated differential pressure regulator keeps the differential pressure constant via the control valve and prevents unintentional pressure increases. Regardless of changes in the system differential pressure, the same set flow rate always flows through the control ball valve. The flow rate can be regulated using intermediate positions.

AVAILABLE
from October 2024

Order number: 1 **2460** XX
HERZ Pressure independent
6-way control ball valve in DN15 - DN 20

NOW ON YOUTUBE

You can now find technical product information, installation examples and much more on our YouTube channel.

Advantages - HERZ pressure independent 6-way control ball valve

- For controlling, regulating and shutting off consumers in 4-pipe systems
- Pressure-relieved for low torsional forces
- Pressure independent - the integrated differential pressure controller keeps the differential pressure constant via the constant via the control valve
- Developed and produced in Europe

HERZ Pressure independent control valve

State-of-the-art technology

Dynamic control and regulating valves are used to operate systems efficiently in all load ranges (full or partial load). They react independently to changing flow and pressure conditions and thus supply all parts of the system with the required amount of energy at all times. The HERZ pressure independent control valve is a fully pressure-relieved automatic control and regulating valve that combines several functions in one product.

AVAILABLE

Order number: 1 **4406** XX

HERZ Pressure independent control valve DN 25-50

Sometimes it's the simple things in life that make us happy. For example, simple and automatic hydronic balancing in building technology is usually responsible for satisfied and happy customers. In recent years, HERZ has met the requirements of planners, installers and users with extensive product innovations and users with the introduction of the pressure independent control valve. Simplified design, high comfort and the best possible energy efficiency are the results. Perfect performance and high valve quality are required to deliver these benefits reliably and over the long term.

The solution lies with HERZ

In the housing of the HERZ pressure independent control valve the functionalities of several valves are combined. Control valve, regulating valve, differential pressure regulator, isolation valve and measuring orifice are combined to save costs and space. Simple operation with setting of the desired flow rate as a percentage of the maximum flow rate also saves commissioning time.

Functionality

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

Also available in DN 25 - DN 50

For terminal units with a high capacity, such as ventilation units, robust and precise control is more important than a small footprint. This is why the HERZ design engineers have designed the DN 25 - DN 50 pressure independent control valves with a large, external diaphragm. At the same time, the housing lengths remained small.

The casting molds of the housings were also generously adapted to allow high flow rates without causing unnecessary pressure losses at the housing. As a result, the valves have a high flow capacity, while the set pressure is low across the flow range of the entire product group.

Thanks to full pressure relief, the valves can be operated up to and including DN 50 with actuators. The robust design and precise machining enable the valves to easily provide a constant flow rate in the differential pressure range up to 6 bar.

Advantages - HERZ Pressure-independent control valve

- Development, design and production by HERZ
- Large flow capacity
- Low and stable response pressure
- Easy to use
- Wide variety of flow rates, nominal sizes and connections
- Use of small actuators for all types up to DN 50 available
- For control and regulation in heating and cooling areas
- Made in Europe

AVAILABLE

4006 / 4206 SMART

The geometry of the housing, which is cast from dezincification-resistant brass, has been optimized for both water flow and casting quality. This means that only minor additional pressure losses occur in the housing at high flow rates and the set pressure is kept at a low level. At the same time, favourable casting conditions are achieved, which ensure a high quality of the housing.

- DN 15 - DN 20, male and female, compact design, short overall lengths
- Simple presetting in % of the maximum flow rate
- Low and stable response pressure across the entire range of models
- Pressure relief for precise control and low actuating forces
- 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)
- Max. operating pressure: 25 bar

AVAILABLE

4406

Pressure independent control valve with external diaphragm for high capacity terminal units.

- DN 25 - DN 50, male, short lengths
- Flow capacity up to 12,500 l/h
- Simple presetting in % of the maximum flow rate
- Stable response pressure across the entire range of models
- Pressure relief enables the use of small actuators up to DN 50
- Max. differential pressure: 6 bar
- Max. operating pressure: 25 bar

AVAILABLE

4600 HerzCON

The internationally successful HerzCON model is characterized by its particularly compact design and easy access to all service functions as a direct connection. The integrated pressure independent control valve keeps the volume flow constant by regulating pressure fluctuations, ensuring that all system components are supplied with the required amount of energy at all times.

- Direct connection for fan coils and other heating and cooling devices
- Models in DN 15 to DN 32 cover a flow rate range of 20 - 2500 l/h
- Compact design, all components easily accessible.
  Base area of the insulation shell only 18 x 18 cm for DN 15 - DN 20
- Third measuring point for direct flow measurement
- Backflushing the strainer basket without having to remove it

AVAILABLE

F4006

HERZ is one of the few leading manufacturers to develop and produce large pressure independent control valves with flanged connections. Sophisticated design with robust diaphragm (420 cm^2 diaphragm surface area for DN 125 - DN 250), generously dimensioned and precisely machined control parts and full pressure relief ensure precise flow control and stable set pressures.

- Models in DN 50 to DN 250 cover a flow rate range from 3.75 to 410 m^3/h
- Stable response pressure across the entire range of models
- Complete pressure relief
- Stepless presetting of the desired flow rate
- Three measuring points for direct measurement of the actual flow rate

HerzCON

HerzCON offers control, regulation, filling, flushing, backflushing, draining, isolation and filtering in a compact form from a single source. The integrated pressure independent control valve - the HERZ 4006 SMART valve - keeps the volume flow constant by regulating pressure fluctuations, ensuring that all system components are supplied with the required amount of energy at all times. HerzCON is the ideal product for all cooling and heating systems.

HIU LEN

HIU LEN is the compact home transfer station with minimal space requirements and a separate supply for heating and hot water. While surface heating works at much lower temperatures than water heating, the HIU LEN, as a 4-pipe station with separate primary supply, ensures more efficient operation at this precise point.

HERZ clever&smart

Heating and cooling made intelligent. HERZ clever&smart is the clever system and the smart solution for all comfort lovers. The room temperature can be conveniently adjusted to your daily routine via your smartphone. Consisting of a Control Box, Room Controller and additional LEDcontrollers or Room Sensors, HERZ clever&smart can be individually configured. Wired or wireless - adapted to your needs.

SURFACE HEATING

HERZ offers a comprehensive, coordinated product range for all aspects of underfloor heating: from pipes to stud and tacker plates including accessories, control stations and distributors to solutions for controlling the room temperature.
HIRSCH Servo, a subsidiary of the HERZ Group, is the market leader in the EPS and EPP industry. The surface heating systems from HIRSCH Servo guarantee optimum impact sound insulation with increased thermal insulation effect, tailored to individual system conditions.

It is not for nothing that HerzCON is known as the "heart of control technology". The all-rounder has already won hearts around the world, is used thousands of times in numerous countries and receives nothing but compliments for its functions, its quick and easy installation and its compact design. But what exactly makes HerzCON so indispensable?

Compact, easy to install and operate - HerzCON offers control, regulation, filling, flushing, backflushing, draining, isolation and filtering in a compact form from a single source. As a prefabricated direct connection, HerzCON ensures a reliable and fast connection between FanCoils and the heating or cooling system. Added to this is the snap-on insulation box, which is designed to be water vapour diffusion-tight.

The core product is the pressure independent control valve. A complete system unit with multifunctional ball valve block, vent valve, drain valve and strainer has been developed around it. The backflush process allows the strainer of the strainer to be cleaned without having to remove it from the valve. A simple procedure that saves time. The eight flow ranges provide a wide range of applications. All components are made of dezincification-resistant brass, allowing operation with heating water as well as with ethylene glycol or prophylene glycol-based antifreeze mixtures in accordance with ÖNORM H 5195 and VDI 2035 guidelines.

AVAILABLE
HerzCON incl. insulation box
Order number: 1 **4600** XX

PICV

The integrated pressure independent control valve - the HERZ 4006 SMART valve - keeps the volumetric flow constant by compensating for pressure fluctuations, ensuring that all system components are supplied with the required amount of energy at all times. Thanks to the differential pressure independent volume flow setting, balancing and control, no calculation and verification of the valve authority is required. The pressure independent control valve can be equipped with various types of actuators, which means that any control system can be used - from room thermostats to building management systems.

Drain valve

The integrated drain valve in the strainer allows the system to be flushed without removing the strainer basket. This saves a lot of time for the installer.

Multifunctional ball valve block

The HERZ multifunctional ball valve block is fitted with a red and blue handle. The T-bore of the ball with full passage allows complete emptying or filling of complete systems or a subsystem during maintenance. The position of the ball valves is clearly indicated by the ball valve handles.

Scan now for more information!

HERZ clever&smart Room Controller with touch display.

Following the revolutionary development of smartphones, which make our everyday lives easier, smart household appliances have also proven to play an important role. At the touch of a button on your smartphone you can switch on the oven or set the robot to vacuum on its own. This smart technology is also well known in building technology. HERZ Armaturen goes further and offers the complete package for an intelligent and controlled heating and cooling system. HERZ clever&smart is the intelligent solution for adapting your home to your needs.

The intelligent set

Consisting of a Control Box, Room Controller and additional LEDcontrollers or Room Sensors, HERZ clever&smart components can be adapted to users' needs. A distinction is made between systems for heating only or heating and cooling. Whether wired or wireless - the HERZ clever&smart family offers a modern smart solution for all comfort lovers.

The Control Box is not just a simple signal distributor, but a heating and cooling controller. The flow temperature can be adjusted according to the outside temperature and dew point. Room Controller Clima, equipped with a colour touch display, measures the temperature and relative humidity. It is also used to configure and operate the system. The LEDcontroller Clima also measures and displays the air quality.

Comfort at the highest level

In addition to the 2 main operating modes (heating and cooling), HERZ clever&smart offers 4 modules thanks to its smart technology: Normal, Turbo, Eco and Off. This makes it easy to choose between preset modules for heating and cooling or to adapt the room temperature to everyday life by specifying the time window on the selected day. The modules as well as the heating and cooling times, which room should have how many degrees and when, can be set directly on the Room Controller or conveniently via the smartphone.

The air is clean

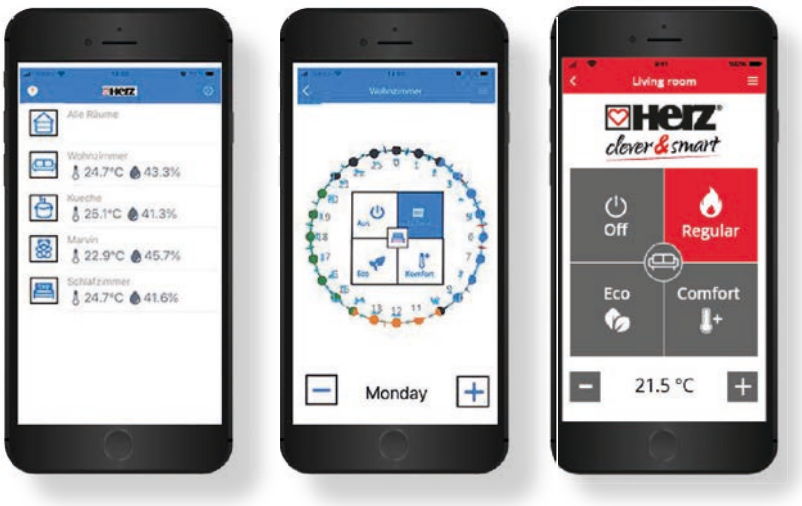
The Index of Air Quality (IAQ) serves as a guide value for air quality. This plays a major role for our health indoors. The more stale the air is, the higher the risk of infection and the risk of airborne diseases and infections. In most cases, ventilation is only carried out when the stuffy air is already noticeable.
HERZ clever&smart LEDcontroller Clima uses integrated sensors to measure the air quality and CO_2 content in the interior and shows these via colour codes on the LEDcontroller display. In this way, the first signal to take action is given in real time and before it is too late.

The mobile technology

If desired, the entire system can also be connected to a smartphone via WiFi. With the app, the desired room temperature at the desired time can be conveniently set from anywhere and adapted to your own daily routine. The app, which is

available in various languages, also offers simple communication for the service technician. The app also provides you with an overview of the rooms, temperatures and relative humidity.

HERZ clever&smart offers you user-friendly solution and convenience for a controlled and easily adjustable heating and cooling system. Easy operation can be done remotely with iOS / Android applications as well as with touch sensor controllers, which are included in various product packages. HERZ clever&smart reduces your energy costs while increasing comfort.



HERZ clever&smart app with display of the individual rooms, individual setting of the cooling/heating time and module selection.

HERZ clever&smart Family

AVAILABLE
Order number: 3 **F810** XX

Control Box and Control Box Clima:

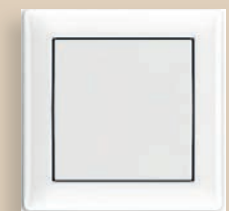
- Status displays by means of 14 LEDs
- 8 zones each with up to 4 actuators controllable
- Outputs for pump and mixer, heating and cooling demand
- Mixer control weather-compensated or dew point controlled
- Control of up to 16 rooms in 1 residential unit
- Several residential units can share data

Room Controller and Room Controller Clima:

- To configure and operate the system
- Versions for heating or for heating and cooling with humidity detection
- Dew point-controlled flow temperature control
- With or without WLAN module
- Coloured touch display with glass surface for easy operation

LEDcontroller and LEDcontroller Clima:

- In addition to temperature measurement, Clima version also records relative humidity, air quality and CO_2
- Coloured display of air quality (IAQ) via LED
- Displaying and setting the temperature via the touch display
- Communication via WiFi with Room Controller Clima WiFi
- Dew point-controlled flow temperature control



Room Sensor and Room Sensor Clima:

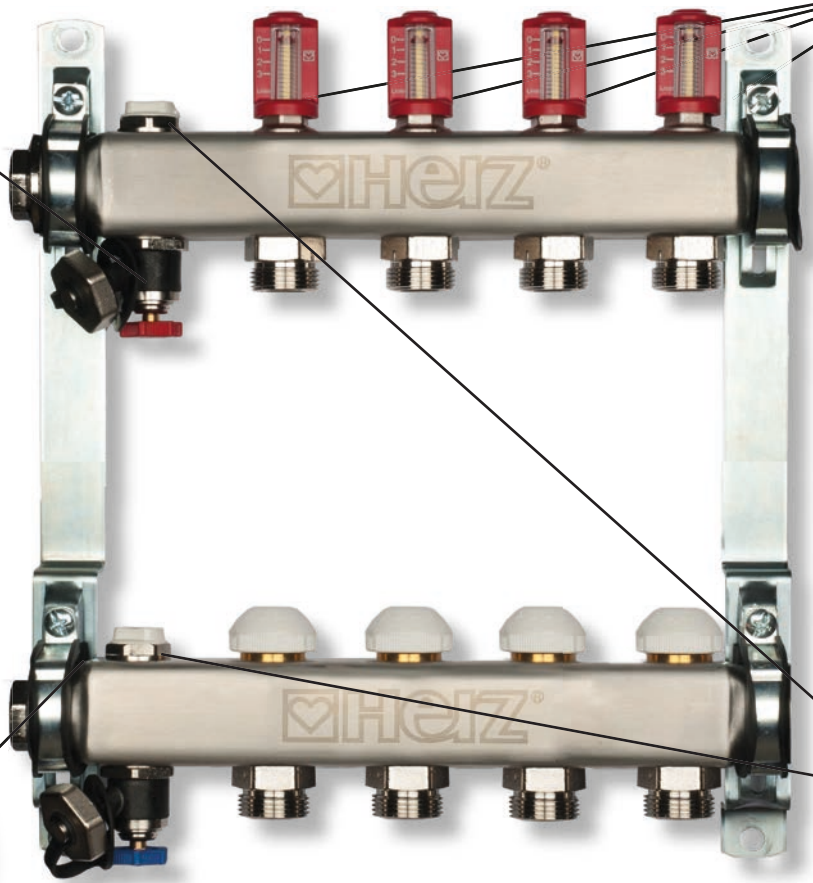
- Measurement of temperature and relative humidity
- Versions for heating or for heating and cooling with humidity detection
- With or without WLAN module

Surface heating and cooling systems are becoming increasingly important in modern society. Many consumers prefer a panel heating or cooling system for new buildings and also when modernizing existing heating and cooling systems. HERZ stainless steel manifolds are the compact all-in-one product with all the necessary components for an installation-friendly and smooth process.

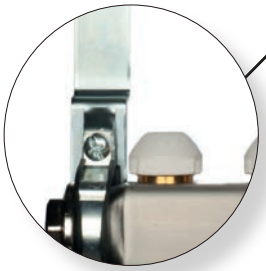
The HERZ stainless steel manifold was specially developed to meet the requirements of modern surface heating and cooling systems. It can be used for underfloor, wall and ceiling heating and cooling systems as well as in combination with radiators. The HERZ stainless steel manifold is ideal for both new builds and renovation projects. HERZ Flowmeters in versions up to 3 l/min and up to 6 l/min in conjunction with the HERZ thermostatic valves ensure excellent controllability. In combination with the HERZ room temperature controls, optimum comfort is ensured for the end user.

A seamlessly drawn special stainless steel profile, which is precisely machined using state-of-the-art equipment, guarantees maximum functionality and quality. Depending on the connection configuration, up to 10 bar operating pressure and up to 110 °C operating temperature are possible. With HERZ Flowmeter, these data are 6 bar / 70 °C. A choice of left-hand or right-hand connection with 1" female thread and the fitting of vent valves and fill and drain taps are obligatory. Due to the low height of 66 mm, the HERZ stainless steel manifold is ideal for installation in dry walls. Depending on requirements, HERZ stainless steel manifolds can be designed for 3 to 12 heating circuits and offer simple installation and ease of operation.

Drain valve:
The direction of flow can be seen from the handle colour of the valve (red: flow; blue: return). A filling and draining valve with a G 3/4" connection thread is provided on the flow and return bars. It is possible to add the HERZ hose connection 1 **6206** 01. The valve can be opened and closed using a handwheel.

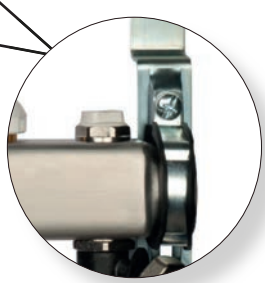


HERZ Flowmeter:
Heat- and cold-resistant plastic in combination with dezincification-resistant brass ensure maximum service life. Double O-ring seals and a non-flow-through display area ensure long-term functionality. The simple operation of the reading unit without the need for tools is extremely easy for installers and customers. Two design variants, up to 3 l/min and up to 6 l/min, provide a wide range of applications.



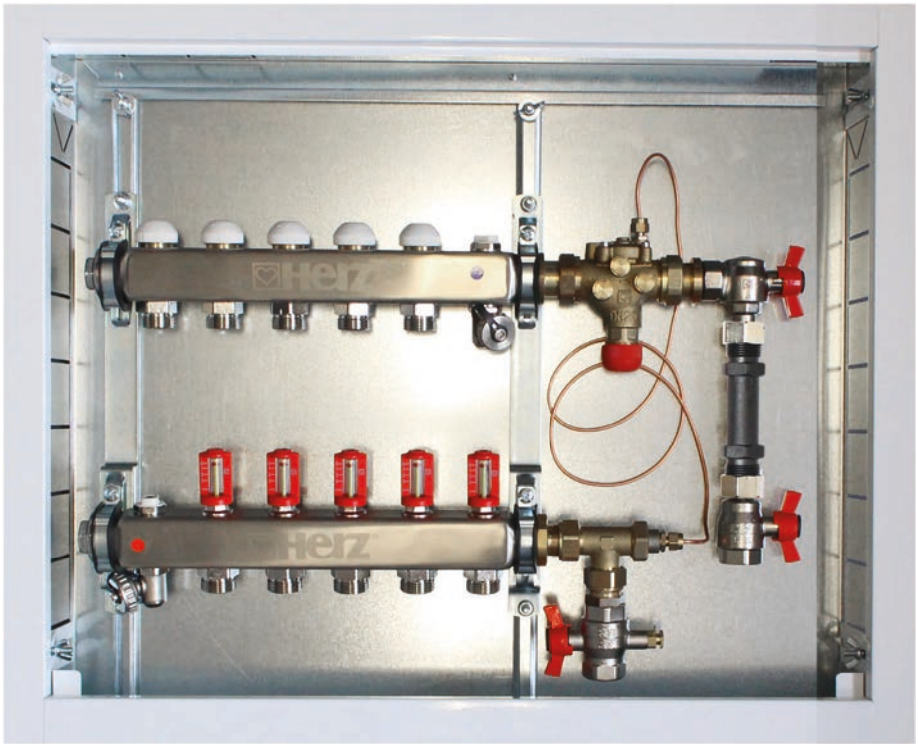
AVAILABLE
Order number: 1 **8632** XX

Brackets: The distribution manifolds can be mounted directly on a wall or in a distribution cabinet using the brackets. The supplied brackets with integrated sound-absorbing inserts ensure ease of installation to the full extent.



Venting valves: A vent valve is fitted to the flow and return manifolds. The valves can be operated with the HERZ universal key.

The dynamic control set with HERZ differential pressure controller is a tested solution for problems such as uneven or partial inadequately-heated living areas, which are usualy due to an improperly controlled and regulated heating system. It enables simple hydraulic adjustment of the underfloor heating for optimum energy efficiency of the entire heating system. The differential pressure controller also impresses in practice with its robust and dirt-resistant operation. The product also scores points for its fast delivery time and compatibility with all 1-inch manifolds on the market.



AVAILABLE
Order number: 1 **8635** XX.

Adjustment of underfloor heating systems

Heating systems are dynamic systems. Individual heating circuits or entire manifolds are opened or closed by controls, whereby the differential pressure on the individual heating circuit and, thus, the flow rate changes every time. However, each heating circuit must be provided with the flow rate calculated in the planning. The heating circuit pump must overcome the entire resistance at the manifold together with the heating circuits. If this is not the case, some areas will be heated unevenly or even inadequately.

Speed-controlled pumps cannot make a positive contribution here because the differential pressure for the heating circuit with the highest pressure loss must always be provided.

The difference between theory and practice

In theory, differential pressure independent thermostatic valves keep the flow constant for each heating circuit, even if the differential pressure at the manifold changes. In practice, the precision mechanical components of these thermostatic valves react extremely sensitive to the slightest impurities in water. As a result, these valves are no longer able to regulate within a very short time. For this reason, the use of differential pressure controllers is recommended in practice. By keeping the differential pressure constant across the entire manifold, the set flow rate in the heating circuits is maintained, even if the differential pressures in the heating system vary. This is tried and tested and is good precisely because of this. HERZ also supplies a further development of the classic differential pressure controller precisely for underfloor heating applications.

HERZ Dynamic control set

Four functions can be realized with the dynamic control sets:

- Differential pressure control
- Zone regulation
- Isolation
- Flow limitation

The dynamic control set from HERZ provides the necessary control to ensure that the required quantity of heating water is available at the desired location at the desired time. The combined functions of differential pressure control, zone control, isolation and flow limitation ensure excellent control of the surface heating. The adjustable throttle valve is used to limit the flow and guarantees that a manifold cannot be oversupplied. The zone valve is pressure-relieved. Thermal actuators or geared motors with low actuating forces are ideally suited for mounting. This allows the supply to the manifold to be completely interrupted. This is particularly practical if the entire area supplied by the manifold, e.g. an apartment, is to be isolated.

In addition to all these functions, the insensitivity of the dynamic control set to contamination in the heating water ensures that the hydraulic control function is maintained in the long term. The compact dimensions of the dynamic control set allow it to be easily installed in manifold cabinets as little as 80 mm deep. The dynamic control set from HERZ is available with and without a fitting for heat meters.

Hydraulic Interface Unit Renova

The perfect replacement for your gas boiler

In many homes, a gas boiler is responsible for the heat supply. The heat is produced directly in the consumer's home. Among other things, this leads to unwanted noise emissions from gas boilers. If you also consider the uncertain availability of gas supplies due to the current situation, it is advisable to find an alternative. Home transfer stations prevent this and other problems.

HIU Renova

HIU Renova is a compact solution for space heating and hot water. It transfers the heating energy directly to the existing radiator heating system and has a zone valve for convenient control of the home heating via a room thermostat. The heat is produced as required. Unwanted heat loss is prevented thanks to the insulated pipes.

When converting existing gas boilers, we recommend the use of HIU Renova. This domestic transfer station has been specially designed for use as a replacement for wall-mounted gas boilers. A standard connection sequence, based on typical gas boilers, facilitates boiler replacement. Extremely small dimensions in combination with the option of connecting the station to the supply lines from above or below enable the smooth replacement of the gas boiler in the apartment. The supply pipes can be installed in the former chimney, which can now be converted into an installation shaft.

Low system temperatures are the key to the energy transition

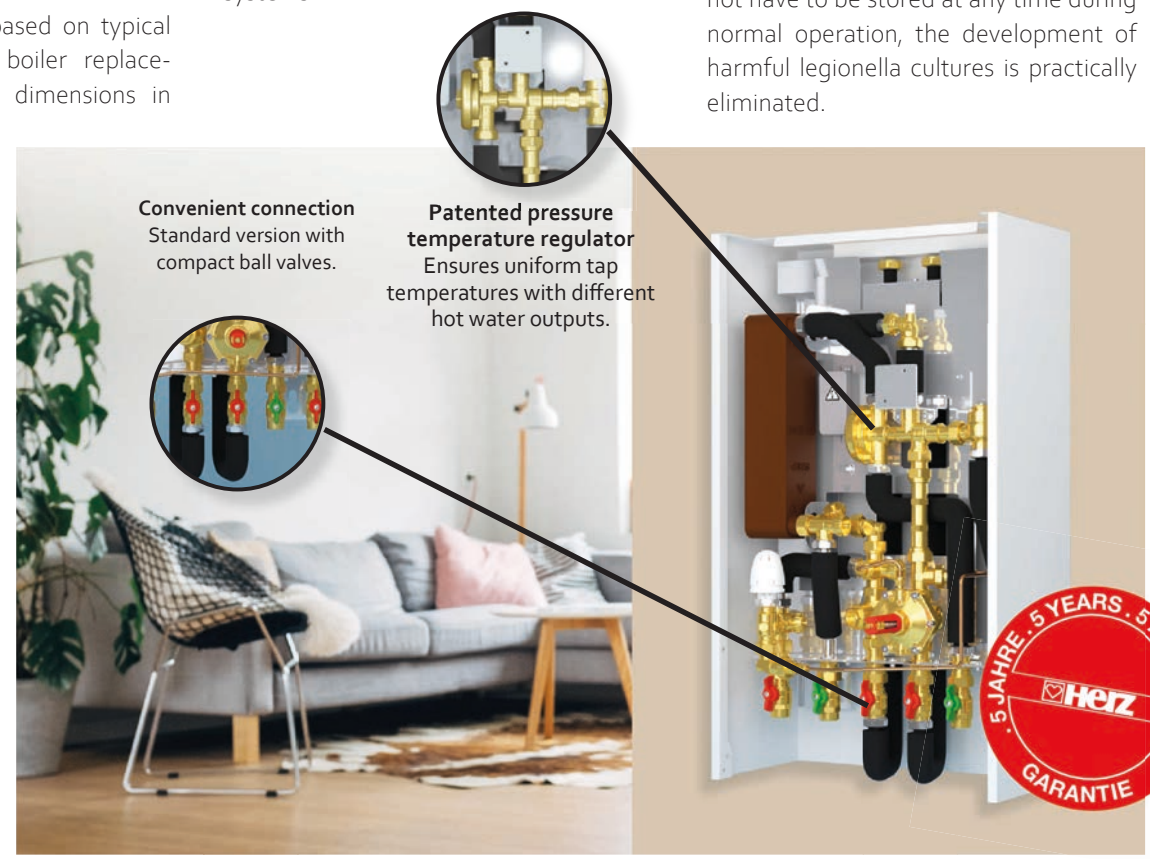
Low flow and return temperatures are the key to meeting today's requirements for system efficiency in the production and transportation of heat. In contrast to the gas boiler, HIU Renova offers a sustainable and efficient heat supply. Thanks to the extraordinarily high transfer capacity of the heat exchanger, the return temperature of the entire system is particularly low. A feature that works very well in combination with energy-efficient systems such as district or local heating, heat pumps or even condensing biomass systems.

AVAILABLE
April 2024

Order number: 1 **4022** XX

Restriction of legionella formation

HIU Renova also effectively puts a stop to legionella. As hot drinking water does not have to be stored at any time during normal operation, the development of harmful legionella cultures is practically eliminated.



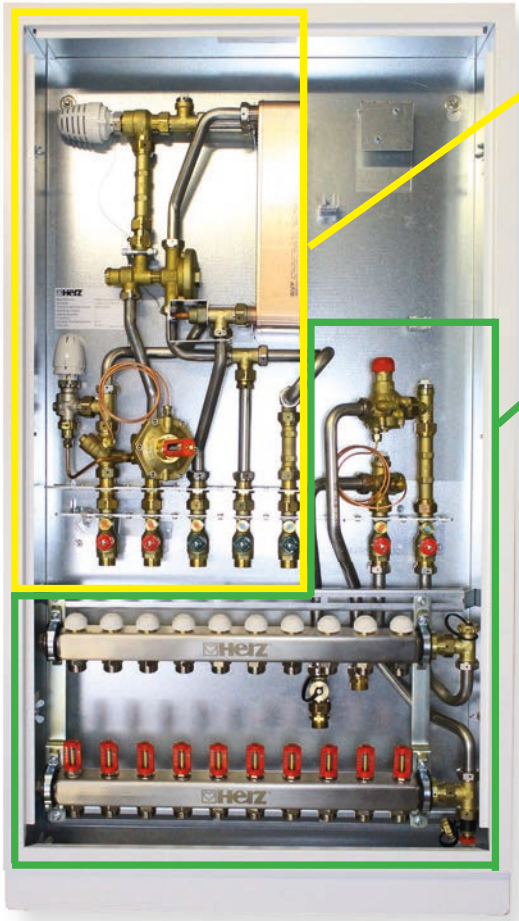
HIU Renova is available in different hot water output levels from 11 to 18 l/min to meet different needs.

Hydraulic Interface Unit LEN

Low Energy Network

HIU LEN is the compact home transfer station with minimal space requirements and a separate supply for heating and hot water. It has all the necessary components to control both space heating and hot water production in an energy-efficient manner. While panel heating works at much lower temperatures than water heating, the HIU LEN, as a 4-pipe station with a separate primary supply, ensures more efficient operation at precisely this point. This allows a heat pump to perform at the optimum temperature range when generating space heating, thus ensuring lower heating costs.

HIU LEN domestic transfer station uses a highly efficient heat exchanger for decentralized hot water preparation on demand in the high temperature circuit. At the same time, thanks to the extraordinarily high transfer capacity of the heat exchanger, the return temperature of the entire system is particularly low.



AVAILABLE

Hot water supply

- High hot water convenience thanks to the instantaneous water heater principle
- Thermostatically controlled tap temperature
- HERZ differential pressure controller 25- 60 kPa for hydraulic balancing
- HERZ pressure-temperature controller
- Fitting pieces for heat meters and cold water meters, also for continuous operation

Space heating supply

- Separate heating supply with low temperature
- Can also be used for cooling/temperature control via the heating surfaces
- HERZ stainless steel manifold with thermostatic valves and flowmeter 0-3 l/min
- 4 in 1: HERZ differential pressure controller with isolation, zone valve function and adjustable flow limitation
- Automatic hydronic balancing between all heating circuit manifolds in the building
- Heat meter adapter suitable for continuous operation

You can now find technical product information, installation examples and much more on our YouTube channel.

NOW ON YOUTUBE

Advantages - HIU LEN

- Minimal space requirement - HERZ stations are manufactured completely as a single unit in our own production facility and tested several times for leakage
- Enables the use of surface heating for pleasant temperature control/cooling in summer
- Extremely low return temperatures result in very good stratification in the buffer vessel
- Separation of hot water heating and space heating enables the efficient use of heat pumps
- HIU piping and heat exchanger made of high-quality stainless steel
- Optimum utilization of the condensing effect and long heating running times result in a high overall efficiency of the system
- Decentralized hot water production offers hot water comfort with high level water hygiene
- Thermostatic control of the hot water temperature
- Safe and reliable operation with minimal service costs
- Made in Europe

DE LUXE

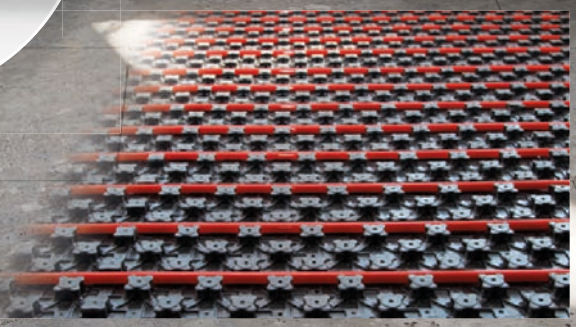
In addition to HERZ quality, the DE LUXE range from HERZ promises visual perfection for design lovers. Thanks to the timeless elegance of its chrome, white or black finish, the DE LUXE range, available in 15 other colours, is the perfect addition to any home.

WASHBASIN TAP

HERZ precision fittings are manufactured in our modern production and development center in Šmartno pri Litiji, Slovenia. The high quality of our products is confirmed by important European certificates. The Elite series is characterized by modern and timeless design.

FLOORFIX COMPACT

The HERZ FLOORFIX COMPACT enables individual room control via underfloor heating with simultaneous return temperature limitation. While the return temperature limiter regulates the flow temperature for the underfloor heating, the desired room temperature can be conveniently set using the second integrated thermostatic head.



HERZ FLOORFIX COMPACT

Individual room control by means of thermostatic valve and return temperature limiter

HERZ FLOORFIX COMPACT with installation box and white cover plate.

AVAILABLE

Order number: 1 **8100** 30

"Keep your head cool, your feet warm - that makes the best doctor poor" rhymed the famous German poet Heinrich Heine. Warm feet have a positive effect on our well-being. For a clearer understanding, the other way round - if your feet are cold, it is unpleasant because you can quickly feel the cold all over your body. This is why many people opt for surface temperature control in the typical "barefoot zone", such as the bathroom, to keep their feet warm. But how is it regulated if the rest of the rooms are equipped with radiator heating? HERZ Armaturen presents HERZ FLOORFIX COMPACT.

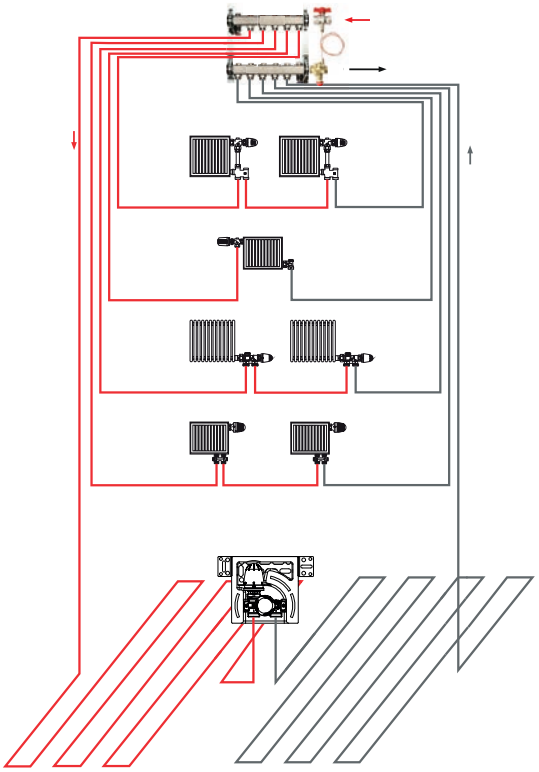
Radiators require a higher flow temperature than floor heating systems. As a rule, this is not a problem, as the appropriate flow temperature can be used depending on the choice of heat distribution. The challenge only arises when combining radiators and floor heating.

Warm feet for more comfort

There are new buildings that are equipped with combined heat distribution. In practice, however, there is much more talk of retrofitting when it comes to the combination. For example, many people decide to retrofit the bathroom, i.e. the so-called barefoot zone of a home, with floor heating in order to increase comfort. Individual rooms are also often retrofitted with surface heating during renovations. To ensure that the different heating water temperatures are maintained, an additional distribution circuit for the underfloor heating would theoretically be required. However, this is often too complex and involves high costs, so that it is not worthwhile for a small underfloor heating system.

HERZ provides the solution

HERZ Armaturen offers HERZ FLOORFIX COMPACT for all comfort lovers. The simple solution for individual room control using a thermostatic valve and return temperature limiter.
Supplied with an installation set for flush-mounted installation with EPP installation box and white cover plate. Timeless design and suitable for every room. For optimum function, installation is recommended after approximately half the heating circuit length of the underfloor heating system (see illustration). The return temperature limiter regulates the flow temperature for the underfloor heating so that a comfortable top floor temperature is achieved. The desired room temperature can be conveniently set using the second integrated thermostatic head. This means that a combination of underfloor heating and radiator heating is possible at low cost without an additional distribution circuit.



Installation recommendation
HERZ FLOORFIX COMPACT

HERZ DE LUXE

Competence meets design

AVAILABLE

HERZ MINI DE LUXE
Thermostatic heads in matt black (S **9200** 49) and in chrome (S **9200** 31).

Radiators have changed. They are no longer just a "means to an end", but an important element of interior design. Comfort requirements and environmental concerns have also evolved. Thermostatically controlled room temperatures and efficient heating systems are state of the art. In collaboration with "Porsche Design GmbH", HERZ Armaturen has developed a range of thermostatic heads in modern yet timeless colours.

The function of the thermostatic head has been tried and tested for many years: The desired temperature is set by adjusting the thermostatic head. The room temperature is continuously adjusted to this by the integrated liquid sensor. Once the desired temperature has been reached in the room, the expansion element expands to such an extent that little or no hot water can flow through the valve to the radiator in order to maintain the temperature. If it is colder than desired, the expansion element contracts again to allow hot water through. When used correctly, the HERZ thermostatic head ensures a regulated and efficient heating system and a sense of well-being.

Over time, the use of the thermostatic head has also proven to be an interior design element. In most cases, the thermostatic head is chosen to match the rest of the interior design. For this reason, HERZ Armaturen has developed a collection consisting of 18 different colours together with Porsche Design. From Golden yellow to Ultramarine, from Calypso to Pergamon, many modern and timeless colours provide the finishing touches to interiors.

Colourful DE LUXE thermostatic heads
Order number: S **9230** XX

DE LUXE Valves

The HERZ DE LUXE radiator fittings complete the architectural design of the room. Thanks to more than 125 years of experience in heating control, HERZ makes these fittings an integral part of the precise and efficient control of the heating system, ensuring comfort and energy savings throughout. A variety of designs and connection options make the HERZ DE LUXE range a perfect solution for all new build and renovation projects in the HERZ quality that speaks for itself.

HERZ-VUA four-way valve in angle form for two-pipe systems with immersion pipe in matt black (S **7684** 49).

The DE LUXE family, consisting of TS-90 thermostatic valves, RL-1 shut-off valves, HERZ-3000 or TS-3000 connection kits and VUA lance valves as well as corresponding accessories, allows a wide range of applications and uses.

- Fire red RAL 3000
- Ruby red RAL 3003
- Signal blue RAL 5005
- Ultramarine RAL 5002
- Golden yellow RAL 9010
- Aegean
- Greenwich
- Calypso
- Chrome
- White RAL 9010
- Edible white
- Pergamon
- Jasmine
- Nature
- Light ivory RAL 1015
- Bahama-beige
- Manhattan
- Black matt

5 JAHRE · 5 YEARS · 5 ANS · 5 JAAR GARANTIE

Dynamic thermostatic valves

Precise temperature control and automatic adjustment

Dynamic thermostatic valves are installed directly on radiators and combine the classic thermostatic valve with a differential pressure regulator in one housing. The integrated differential pressure controller ensures that the required amount of water is available to each radiator. With a mounted HERZ thermostatic head, the required amount of water is automatically regulated depending on the set temperature.

Dynamic thermostatic valves in angle, reverse angle and straight versions.

The HERZ dynamic thermostatic valve has an integrated differential pressure controller. This enables the dynamic thermostatic valve to keep the flow rate at the radiator constant under changing pressure conditions. Pressure fluctuations caused by the opening or closing of other radiators in the system are compensated for completely automatically. Neither system changes nor system extensions require readjustment or a change to the setting on the dynamic thermostatic valve, which keeps the cost of hydraulic balancing to a minimum.

In combination with the HERZ thermostatic heads, the proven HERZ thermostatic valve insert provides highly efficient and reliable room temperature control. Precision, accuracy and efficiency meet the high expectations of a HERZ thermostatic valve.

An angle, straight and a reverse angle versions are available in DN 15 and can control flow ranges from 10 l/h to 120 l/h, depending on where they are used. The maximum differential pressure of 60 kPa enables a wide range of applications.

AVAILABLE
April 2024
Straight: 1 7623 XX
Angle: 1 7624 XX
October 2024
Angle-special: 1 7628 XX

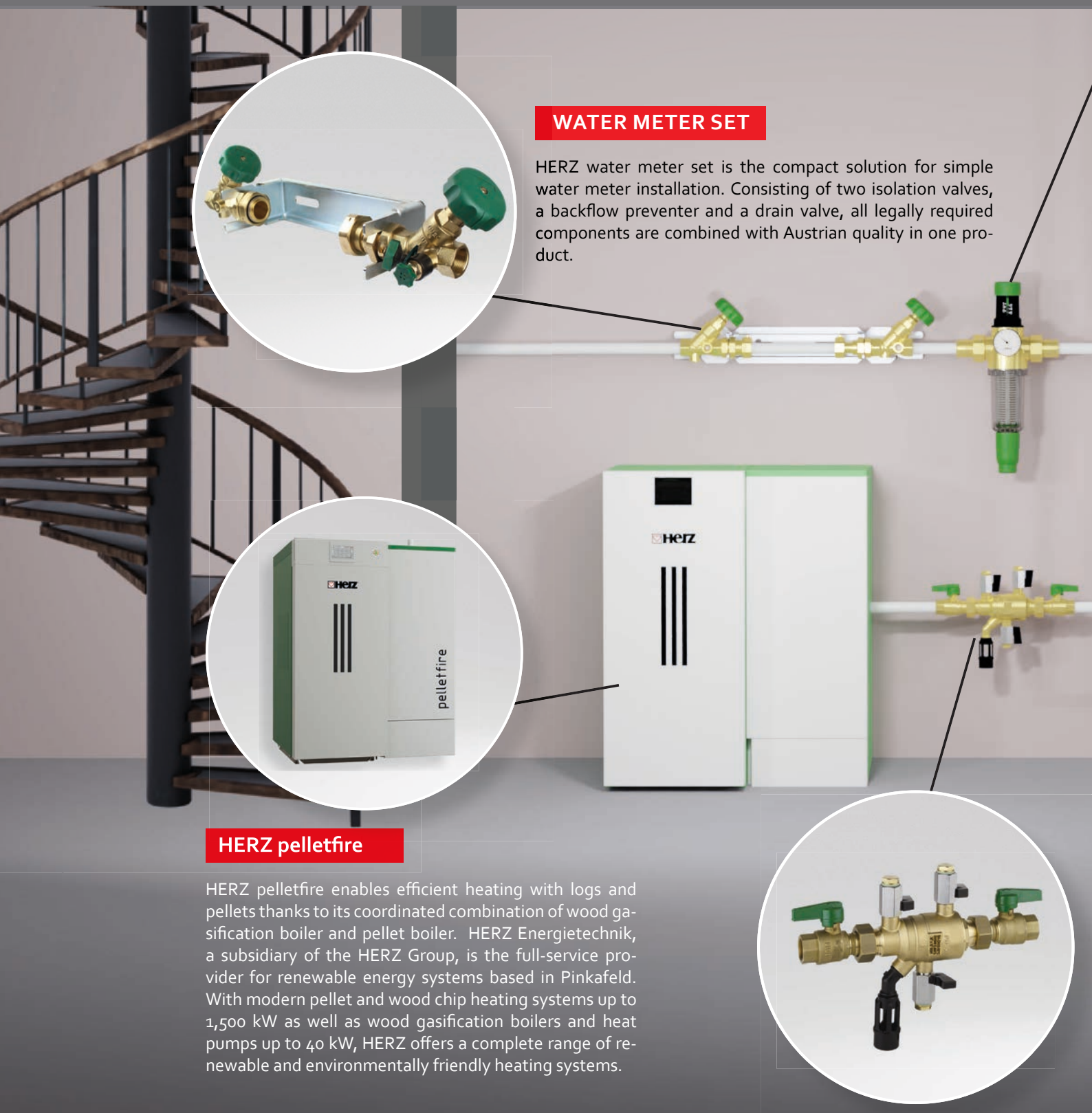
Dynamic thermostatic valve functions

- Setting the desired flow rate
- Dynamic constant maintenance of the set flow flow rate at the radiator
- Automatic compensation of pressure fluctuations through integrated differential pressure controller
- Mounting of a thermostatic head
- Thermostatic head connection thread M 28 × 1.5
- Precise power control of the radiator in combination thermostatic valve-thermostatic head
- Continuous precise room temperature control
- Energy-efficient operation of the entire system with changing conditions

DRINKING WATER FITTINGS

R-15.2.4-21-17117
WIEN-ZERT

HERZ also offers a wide range of drinking water products. All HERZ drinking water fittings bear the legally required ÜA installation mark.



WATER METER SET

HERZ water meter set is the compact solution for simple water meter installation. Consisting of two isolation valves, a backflow preventer and a drain valve, all legally required components are combined with Austrian quality in one product.

HERZ pelletfire

HERZ pelletfire enables efficient heating with logs and pellets thanks to its coordinated combination of wood gasification boiler and pellet boiler. HERZ Energietechnik, a subsidiary of the HERZ Group, is the full-service provider for renewable energy systems based in Pinkafeld. With modern pellet and wood chip heating systems up to 1,500 kW as well as wood gasification boilers and heat pumps up to 40 kW, HERZ offers a complete range of renewable and environmentally friendly heating systems.

WATER FILTER WITH PRESSURE REDUCER

HERZ water filter with pressure reducer is the 2-in-1 product of drinking water systems. Water can flow into the system at high pressure, which is a problem for typical household appliances. HERZ pressure reducers serve as a safety element for this and reduce the pressure to the required level. At the same time, the legally prescribed water filter captures the solids that the water can naturally carry with it, thus ensuring drinking water quality.

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 fitting by a very fast reacting wax-filled thermostatic element. This reduces the risk of uncontrolled high water temperatures and prevents scalding.

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, middle and outlet chambers, which are separated from each other by a backflow preventer. HERZ system separators comply with ÖNORM EN 1717 and have the DVGW quality mark.

CIRCULATION TEMPERATURE LIMITER

HERZ circulation temperature limiter ensures an optimum water flow and prevents unnecessary energy consumption in the drinking water system. The integrated thermocouple regulates the water temperature in the return flow, thus avoiding high costs.

Drinking water filter with pressure reducer

Safe is safe

AVAILABLE

Order number: 2 **3011** XX

Clean, hygienically safe drinking water is one of the most valuable resources of our time. Laws, ordinances and regulations define the detailed framework conditions for protecting the "blue gold" from harmful influences. Despite the very good quality of drinking water in many places - especially from large centralized systems - filtering - preferably immediately after the house connection or the water meter - makes perfect sense from a technical point of view.

HERZ water filter with pressure reducer is the 2-in-1 product of drinking water systems. Water from the water supplier can flow into the system at high pressure, which is a problem for typical household appliances. The HERZ pressure reducer serves as a safety element for this and reduces the pressure to the required level. The setting range is between 1.5 - 6 bar. At the same time, the legally prescribed water filter captures the solids that the water can naturally carry with it, thus ensuring drinking water quality.

Advantages - Drinking water filter with pressure reducer

- Stainless steel strainer insert
- Cleaning or rinsing without emptying
- Incl. connection bracket
- Incl. membrane pressure reducer
- Incl. pressure gauge
- Housing made of forged brass (suitable for drinking water)
- Max. inlet pressure: 16 bar
- Max. operating temperature: 40 °C
- Mesh size: 80 - 100 µm
- Nominal sizes: DN 15 - DN 25

HERZ drinking water mixing valve

Safety first

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 fitting by a very fast reacting wax-filled thermostatic element. Precise control of the water temperature ensures that the water coming out of the taps is at a comfortable and safe temperature for the consumer. This reduces the risk of uncontrolled high water temperatures and prevents scalding.

HERZ drinking water mixing valves enable temperature control between 35 °C - 70 °C and are produced in accordance with the EN 1111 and EN 1287 standards. The maximum operating pressure in the static range is 10 bar, in the dynamic range it is between 0.2 - 6 bar. Depending on the product, the flow range of HERZ mixing valves is between 4 l/min - 42 l/min. The flow pressure difference between hot and cold water is a maximum of 2.5 bar.

Advantages - Drinking water mixing valve

- Optimized thermostat technology for precise control and long life
- Excellent temperature stability thanks to a fast-acting thermostat
- Reduces the risk of excessive water temperatures
- Developed for high flow rates and stable mixed water temperatures
- Factory-fitted non-return valve in hot and cold water supply
- Housing and parts in contact with water are made of dezincification-resistant brass

AVAILABLE

Order number: 2 **7766** XX

HERZ system separator

Separation of drinking water and liquids

AVAILABLE

Order number: I **0303** XX

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, middle 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 middle chamber is vented at the latest when the pressure drop between the inlet and middle chamber has fallen to 0.14 bar. Any back-pressurized, contaminated drinking water at the outlet-side non-return valve is then safely discharged via the differential pressure-controlled drain valve and the drain funnel attached to the outlet of the vent hole.

HERZ system separators comply with ÖNORM EN 1717 and have the DVGW quality mark.

Advantages - System separator

- ÖNORM EN1717
- DVGW quality mark
- Optimum protection for drinking water networks
- Compact design
- Low maintenance
- With / without pressure reducer
- Max. operating temperature: 65 °C
- Max. operating pressure: 10 bar
- Nominal size: DN 15 - DN 20

HERZ STRÖMAX-GNW Balancing valve

For hydronic balancing in drinking water systems

Hydraulic balancing also plays an important role in the drinking water sector. Line regulating valves enable precise control of the flow in individual circuits, creating the required resistance for the water in each circuit. This ensures that all consumers in the system receive the required water supply. By precisely controlling the flow, balancing valves help to optimize energy consumption in water supply systems. This is particularly important in relation to pump systems, which are responsible for transporting the water through the system. By using balancing valves, problems such as insufficient water flow, overloading of pipes and inefficient use of resources can be avoided.

HERZ also offers a wide range of balancing valves for drinking water with the legally required ÜA installation mark. Circuit regulating valves with orifice plates for drinking water systems are available in angled and straight-seat designs and with linear or equal-percentage characteristic curves. Depending on customer requirements, some balancing valves are available with a digital display of the presetting stage in the handwheel window and with rising or non-rising stem.

AVAILABLE

Order number: 2 **4217** XX

Advantages - HERZ STRÖMAX-GNW balancing valve

- Balancing valve with equal percentage characteristic curve
- Suitable for drinking water, dezincification-resistant brass
- Measuring valves along one axis for optimum accessibility
- Stepless adjustment incl. stroke limitation
- Clearly legible display of the setting on the handwheel shaft
- Spindle seal with two O-rings
- Max. operating temperature: 85 °C
- Max. operating pressure: 25 bar
- Nominal size: DN15 - DN 50

HERZ Energietechnik is the full-service provider for renewable energy sources. Based in Pinkafeld, the company has specialized in sustainable and efficient heating systems since it was founded and provides environmentally friendly heating for many single-family homes, apartment buildings, large buildings, hotel complexes and entire districts. From modern, energy-efficient and environmentally friendly pellet and wood chip heating systems to wood gasification boilers and heat pumps - HERZ Energietechnik supplies customers from North America to Europe and Japan with environmentally friendly systems in HERZ quality.

HERZ commotherm AWi-Mono
Air/water monobloc heat pump

The new generation of air-to-water heat pumps from HERZ not only impresses with its modern design. The inverter technology ensures efficient operation of the heat pump and optimum heating comfort combined with low energy consumption.

Modern inverter technology

The advantage of inverter technology is that the heat pump's heating output can be adapted to the current energy requirement (heating or cooling output). Inverter technology guarantees outstanding energy efficiency - even at low outside temperatures.

Heating and cooling in one

The heat pump impresses as an all-in-one solution. In addition to heating and hot water preparation, the heat pump also impresses with its cooling function. The built-in "silent mode" enables even quieter operation. The monobloc heat pump is also equipped with efficient heat and sound insulation. The system is operated with R32 refrigerant.

Convenient menu navigation

The compact (wall-mounted) hydraulic unit of the heat pump (with high-efficiency pump and changeover valve incl. actuator between hot water preparation, heating/cooling) is installed inside the building, is pre-wired internally and can be connected to the heat pump installed outside with minimal effort.

The elegantly designed 7" VGA color touch display T-Control is the heart of the heat pump and ensures maximum user-friendliness thanks to its convenient menu navigation and simple screen layout with schematic 3D display. The heat pump, heating circuit and hot water cylinder are optimally coordinated via the central control unit.
As an additional extra, the T-Control regulating unit offers the option of remote visualization via smartphone, PC or tablet. It is operated directly on the heat pump, meaning that processes and parameters can be read or changed regardless of location.

Operation is made easy with the optionally available digital remote controller. The iFBR enables access to the control system from the living room and always provides an overview. The convenient 3.5" touch display visualizes the most important parameters of the heat pump, heating circuit and hot water cylinder.

HERZ pelletfire

Heating with logs and pellets

With 3 output sizes from 20 to 40 kW, the HERZ pelletfire combination boiler is a perfectly matched combination of wood gasification boiler and pellet boiler. For all those who want to enjoy complete independence, heating can be provided either with conventional logs or fully automatically with pellets, depending on requirements. The separate combustion chambers allow you to switch flexibly between log wood and pellet operation. If heat is still required from the buffer cylinder or the heating circuits after the logs have burnt down, heating operation continues automatically with pellets. The option of automatic ignition, which automatically ignites not only pellets but also logs as required, provides even more convenience.

The lambda probe fitted as standard ensures optimum combustion values. The heat exchanger surfaces are automatically cleaned and kept clean by the integrated turbulators, even during heating operation. This ensures consistently high efficiency and low fuel consumption.

Combi boiler with integrated suction tank for even more convenience

In order to continue to meet customer requirements, HERZ has extended the combi boiler to include a variant with an integrated suction tank. With the integrated suction container (with a volume of 75 liters), approx. 49 kg of pellets are temporarily stored in the boiler. This means that pellets only have to be transported from the storage room to the boiler 1-3 times a day. The suction times are freely selectable. The boiler can therefore be fed automatically using the integrated suction tank.

HERZ pelletstar CONDENSATION

Pellet boiler with condensing technology

The HERZ pellet boiler with condensing technology is very popular due to its innovative technology. Combustion technology at the highest level and high-quality system components result in increased efficiency of the pellet systems and very low emission values - true to the motto "increase efficiency, reduce emissions".

The solution for new buildings and renovations

HERZ pelletstar CONDENSATION is a compact system that offers the ideal solution for both new builds and renovations. Heat can be distributed via a low-temperature system (underfloor heating) or a high-temperature system (radiators). Depending on requirements, the pelletstar CONDENSATION delivers the right temperature even without a buffer cylinder. Thanks to the modular design, it is now even easier to install the condensing boiler. The lambda probe ensures perfect combustion values for the condensing boiler, even with different fuel qualities.

An indestructible HERZ stainless steel

The entire boiler body, combustion chamber and heat exchanger are made of stainless steel. The combustion chamber and heat exchangers are cleaned automatically, meaning that no manual work is required. In addition, cleaned heat exchanger surfaces ensure a consistently high level of efficiency. The pelletstar CONDENSATION is also available with the usual variety of pellet discharge systems. From discharge by means of a flexible screw to suction systems or

the storage container for manual filling: HERZ offers the optimum solution for every space and room situation.

HERZ firestar De Luxe series

Wood gasification boiler with optional automatic ignition

The wood gasification boiler from the De Luxe series with 4 output sizes from 18 to 40 kW and proven combustion technology impresses above all with its convenience and compact design.

The electronic combustion control with user-friendly touch display enables simple and user-friendly operation. The unique double vortex combustion chamber made of silicon carbide ensures energy-saving and efficient combustion. The lambda probe fitted as standard controls both the primary and secondary air supply and ensures the cleanest combustion values even in partial load operation. The automatic heat exchanger cleaning system ensures consistently high efficiency thanks to cleaned heat exchanger surfaces. The large filling chute for half-meter logs ensures up to 8 hours of burning time at full load.

18-40 kW

A+

Even more convenience with automatic ignition

The firestar De Luxe 18-40 series is also available with automatic ignition as an option. This means that the time of heating can be freely selected, ensuring convenient and comfortable heating with wood.

HERZ commotherm LWi-Split R410A

Air/water heat pump with inverter technology

A+++

12-16 kW

HERZ commotherm LWi-Split R410A - efficient heating solution for your home

The air/water heat pump with split inverter technology is not just a visual highlight with its straightforward design. The extremely efficient operation of the heat pump ensures optimum heating comfort combined with low energy consumption thanks to the inverter technology. The advantage is that the heat pump's heating output is perfectly adapted to the current outside temperature. The inverter technology guarantees outstanding energy efficiency - even at low outside temperatures.

Heating - Cooling - hot water preparation: ALL-IN-ONE

The various indoor units in a simple design can be perfectly integrated into the living room.

You can choose between 2 different versions:

☑ **Hydro Unit:** The Hydro Unit is the compact, wall-mounted unit with integrated hydraulic components.

☑ **Hot water unit:** The hot water unit forms a compact overall solution for a heating system. The heating system and hot water distribution can be connected directly via connections. An enameled and insulated 350-litre hot water tank is also installed.

Digital remote control

Operation and monitoring via the iFBR digital remote control provide maximum convenience and user-friendliness. The iFBR enables access to the control system directly from the living room. The convenient 3.5" touch display visualizes the most important parameters of the heat pump, heating circuit and hot water boiler.

HERZ precision taps and fittings are manufactured in our modern production and development center in Šmartno pri Litiji, Slovenia. State-of-the-art technologies combined with 91 years of experience are the elements of our inspiration for the development of high-quality precision fittings. The high quality of our products is confirmed by important European certificates. Both kitchen and bathroom fittings are manufactured on the basis of technological progress, practical application and modern design. In addition, HERZ precision taps are characterized by the conscious and efficient use of water and energy and thus also by the conservation of natural resources both in production and in use.

Kitchen fittings

HERZ offers a wide range of kitchen mixer taps. Sophisticated solutions, functional operating elements and several model variants are ideally suited to the requirements of the kitchen area. Depending on the product, left-handed or right-handed installation is possible for individual ease of use. For deeper kitchen sinks, HERZ also offers kitchen taps with a pull-out spray, so that even hard-to-reach areas of the dishes can be washed clean. Taps equipped with a thermostat function help to reduce hot water consumption and offer protection against scalding. From contemporary or traditional design to fine and modern lines - HERZ offers the perfect solution for every kitchen style.

Bathroom fittings

HERZ bathroom fittings set standards in terms of design and functionality. With a successful combination of aesthetic appeal and technical sophistication, HERZ bathroom fittings create a perfect symbiosis in the bathroom. The fine fittings are characterized by high-quality materials and precise workmanship, which not only ensures an attractive appearance but also a long service life. Whether modern and minimalist or classically elegant - the diverse product range offers the right solution for every taste and a wide variety of bathroom concepts. Thanks to innovative technologies, they guarantee economical water consumption without compromising on performance. The precise control of temperature and water pressure enables individual adjustment to meet personal requirements. From shower systems with overhead showers and shower bars to washbasin and bath taps - design your bathroom with HERZ in a uniform, modern and high-quality way.

HERZ offers all the necessary accessories and valves for both kitchen taps and bathroom taps in a matching look and European quality. Please visit our website for a detailed presentation of the fine fittings: **www.herz.eu**

Herz®

the Heart of technology

650 Mil
Euro annual turnover

43
Production facilities in
12 European countries

3.500
Employees worldwide

50
Subsidiaries

Query note

We are at your disposal for any requirements, questions, concerns and feedback.

Herz Armaturen Ges.m.b.H.
Richard-Strauss-Strasse 22, A-1230 Vienna
Phone: +43 1 616 26 31-0
E-mail: office@herz.eu
www.herz-armaturen.at

Herz Armaturen Ges.m.b.H.
herz.armaturen
Herz Armaturen Ges.m.b.H.
HERZ Armaturen GesmbH - Wien

Herz Energietechnik GmbH
Herzstrasse 1, A-7423 Pinkafeld
Phone: +43 3357 42840-0
E-mail: office-energie@herz.eu
www.herz-energie.at

Herz Energietechnik GmbH
herz_energietechnik
Herz Energietechnik GmbH
HERZ und Binder - Energietechnik

www.herz.eu