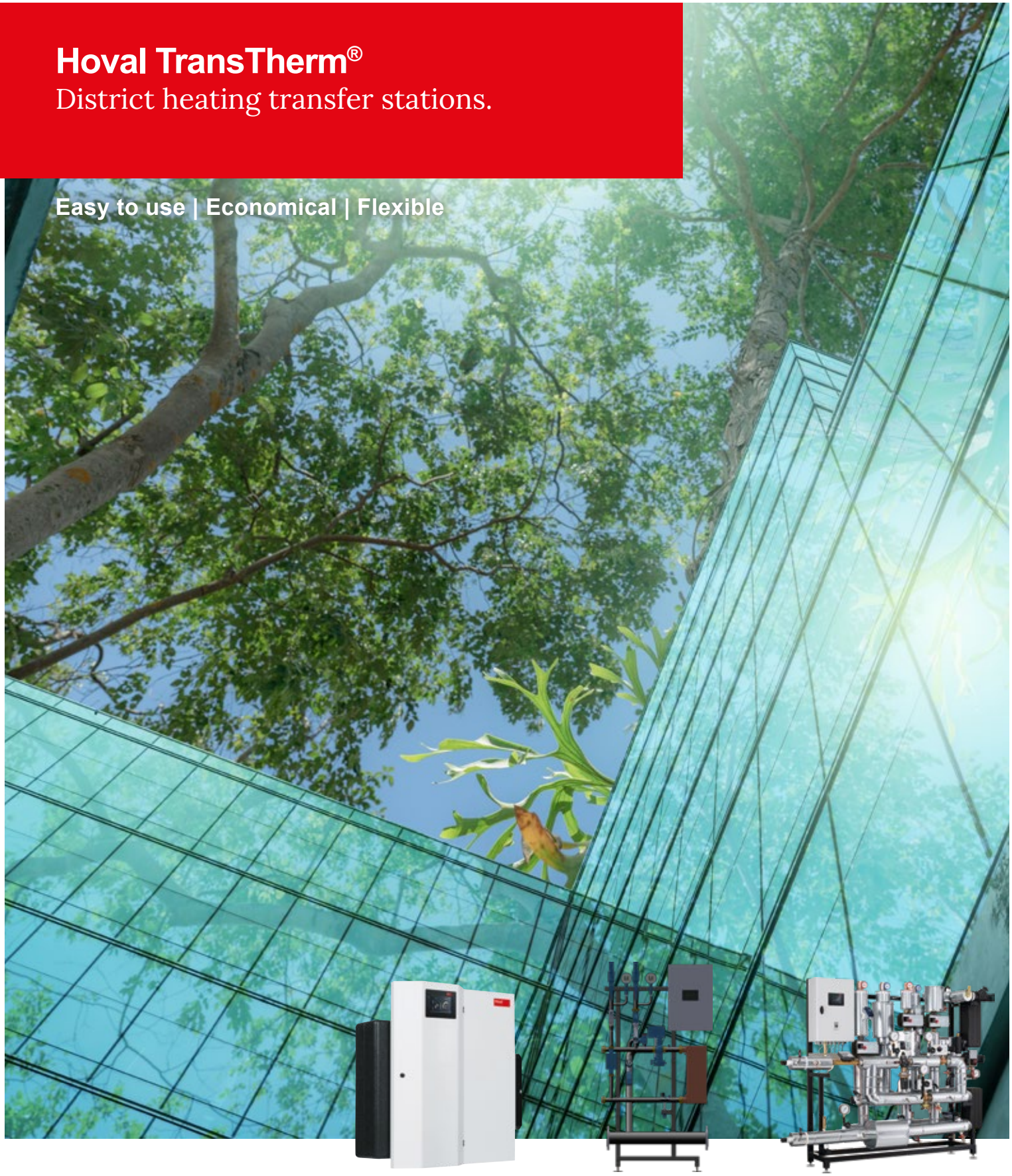
Hoval

FACTBOOK

Hoval TransTherm®

District heating transfer stations.



Hoval | Responsibility for energy and environment

Content

Content

Overview of district heating transfer stations

For all fields of application.

Standard district heating transfer stations (wall-mounted)

- for renovations and new buildings
- Outputs:

  TransTherm® giro 10-248 kW

  TransTherm® giro C 10-124 kW

TransTherm® giro (10,20,40,60,80)

TransTherm® giro C (10,20,40)
Only available in AT, DE and CEE.

District heating transfer stations for local and district heating networks.

Systems where heat is supplied from a central location and then distributed via local or district heating networks are being used more and more often in large residential, commercial, administration and municipal buildings, as well as by other consumers with high heat demands.
Efficient and reliable district heating transfer stations play an important role in such systems.

Hoval district heating transfer stations fulfil their task at the highest possible level, due to the materials used in them and their sophisticated yet compact design. With 5 type series, Hoval covers all output ranges, suitable for single family homes right up to large high-energy buildings.
The benefit of choosing Hoval:
from design and commissioning work to the HovalSupervisor cloud instrumentation and control system, everything is supplied from a single source, meaning that all components are perfectly coordinated with one another and work with maximum efficiency. This saves money and protects the environment.

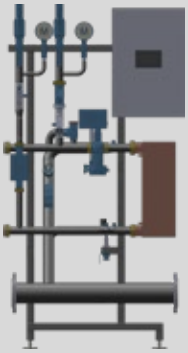
Standard district heating transfer stations (wall-mounted)

- with integrated domestic hot water calorifier and heating circuits
- for renovations and new buildings
- Output: 10-248 kW

TransTherm® giro plus (10, 20, 40)

Standard district heating transfer station (floor-mounted)

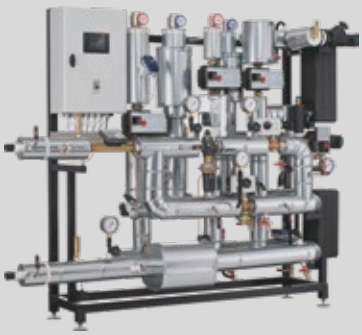
- for heat transfer and regulation of heating and hot water production systems
- for renovations and new buildings
- Output: 100-450 kW



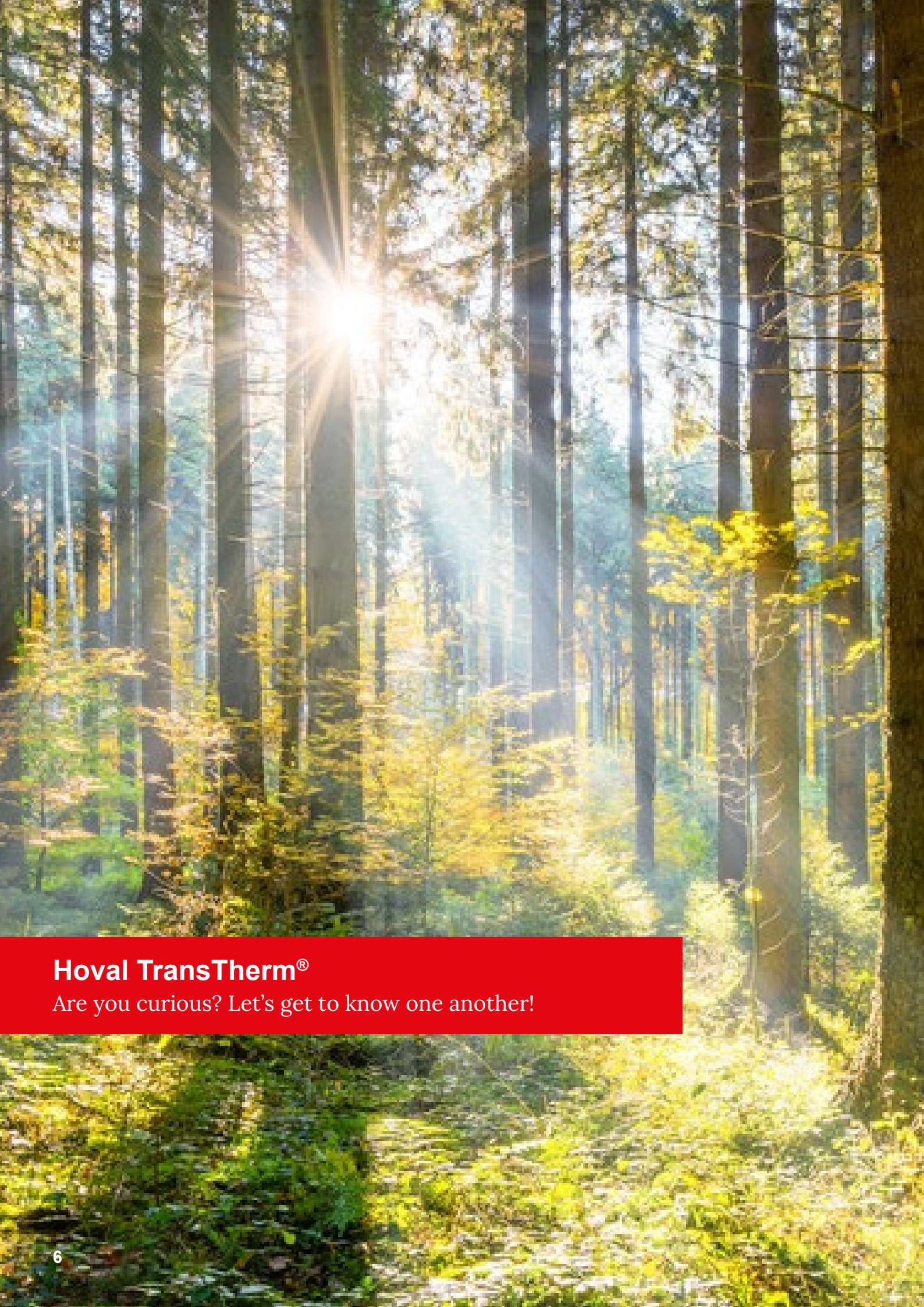
TransTherm® pro SC

Individually produced district heating transfer station (floor-mounted)

- for every application and every power range
- with integrated domestic hot water calorifier and heating circuits
- Output: 15-10.000 kW



TransTherm® pro



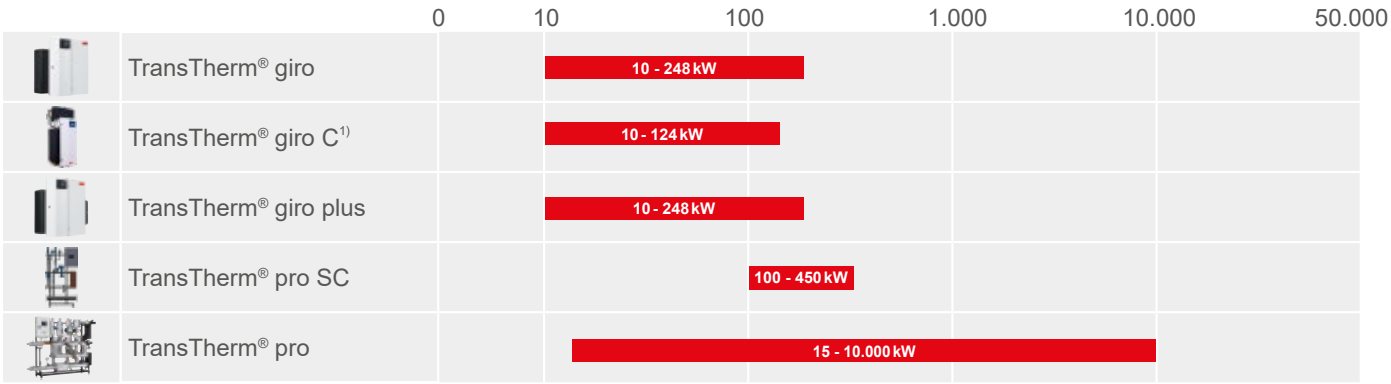
Hoval TransTherm®

Are you curious? Let's get to know one another!

Hoval district heating transfer stations

This is what they can do.

TransTherm® performance overview



District heating transfer stations Hoval TransTherm®: 5 models for an extremely wide range of applications covering an output range from 10–10.000 kW.
1) Only available in AT, DE and CEE.

District heating transfer stations TransTherm®:
Your advantages at a glance.

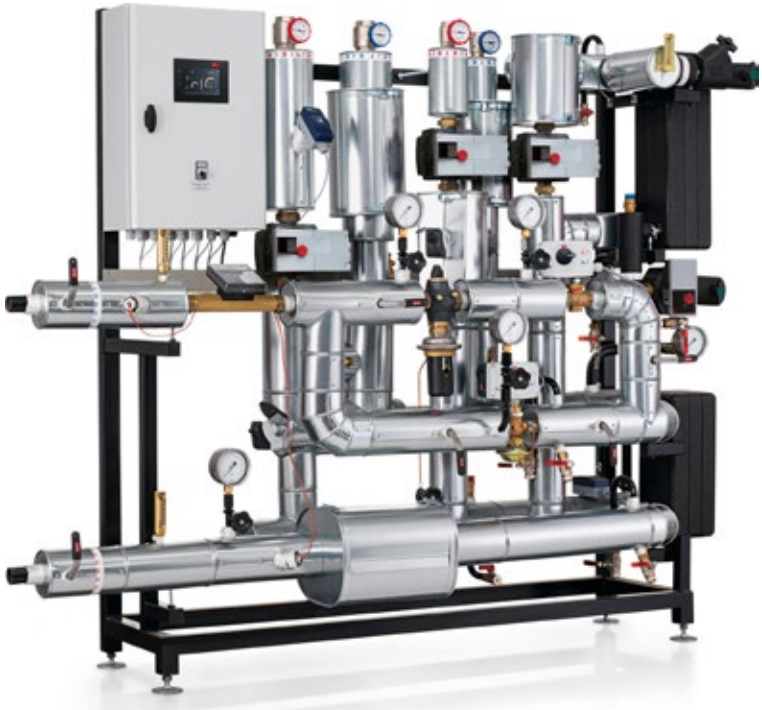
The district heating transfer stations with ready-to-connect complete system for local and district heating networks are suitable both as a compact station in single-family homes and for standardised transfer stations as part of complex system solutions. The TransTherm® is the ideal solution, particularly for projects where building heating systems are to be integrated into a heating network with existing components.

Added value for your benefit:

Easy-to-use, customised solutions
The system solutions offer the best price/performance ratio, among other benefits, based on efficient, customised products for every requirement. Moreover, the unit guarantees maximum operating safety and longevity thanks to high-quality materials. The robust design of the unit ensures comfortable operation. Only minimum heat losses result, thanks to first-rate thermal insulation.

Flexible system
The ready-to-connect, complete system and the intelligent design of the district heating transfer stations enable time-saving, straightforward installation. Based on its design, the unit is characterised by its minimal space requirements, and can be individually adjusted and adapted by Hoval district heating specialists.

High efficiency
The heat exchanger made of high-quality stainless steel ensures efficient heat transfer by means of Micro Plate™ technology. The TopTronic® E controller ensures an economical and demand-driven heat supply.



Complete, installation-friendly solution

When designing the TransTherm® district heating transfer stations, the focus was on flexible and simple installation. The stations are delivered as ready-to-connect complete systems, fully equipped with all subassemblies. The systems are preassembled at the Hoval production facility to ensure rapid and trouble-free installation on-site. Thanks to their compact design, the installed units have minimal space requirements.

Flexible and economical system

All control units and measuring instruments are clearly arranged and integrated in an accessible manner thanks to the flexible installaton options. Since the connections to the heating network can be positioned flexibly, the operating elements are readily accessible in all design variants. The great flexibility of the TransTherm® models, which is based on their power spectrum and design, combined with Hoval's systems expertise, enable systems to be created which fully exploit all factors to achieve the optimum price/performance ratio.

All Hoval district heating transfer stations are delivered fully equipped. All components are already integrated, as is the controller. High-efficiency circulating pumps ensure economical operation in terms of the amount of electricity used. The stainless-steel plate heat exchangers provide superior heat transmission from the heating networks to the heat distribution system in the building.

Easy to use and reliable

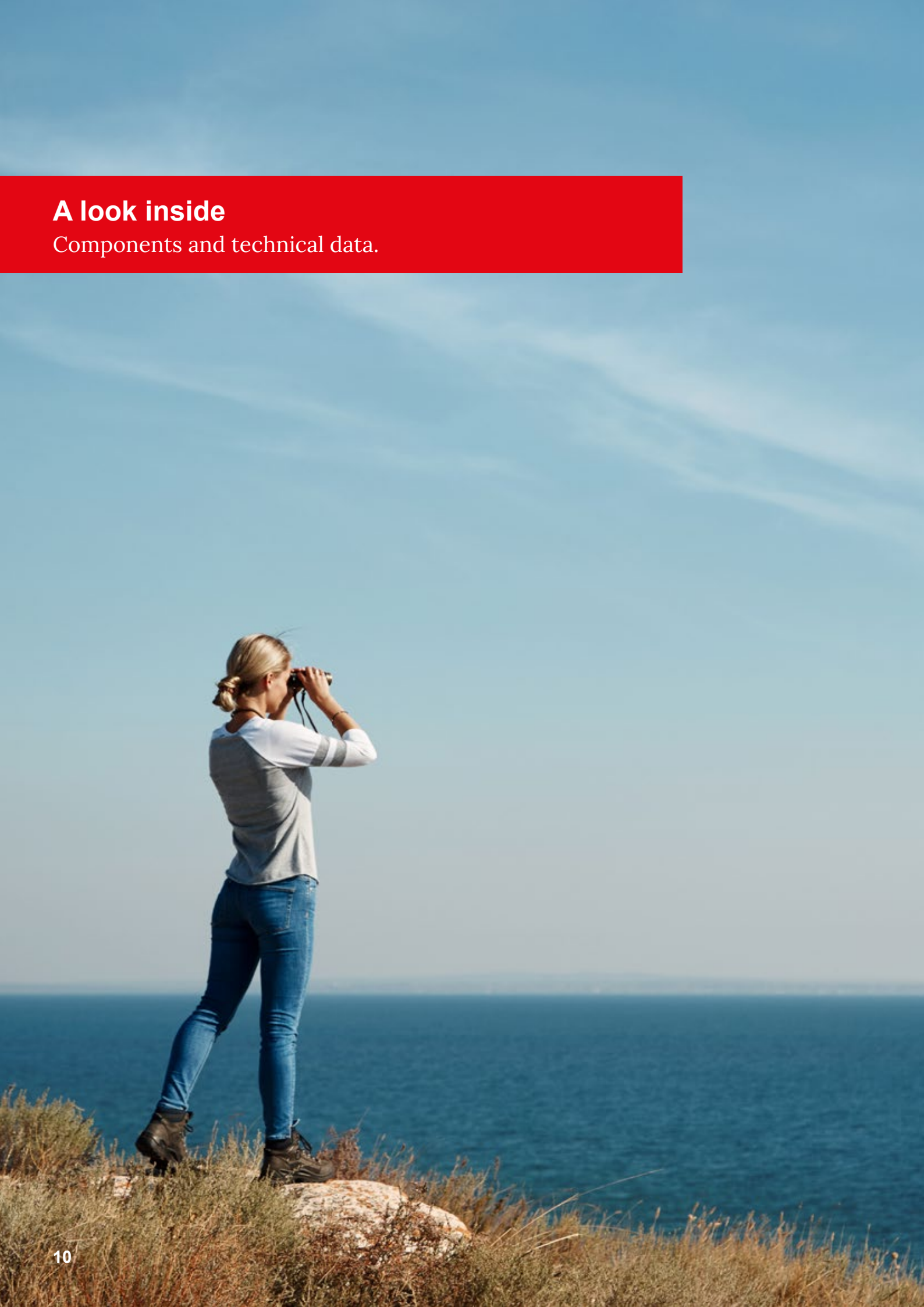
The high-quality district heating transfer stations from Hoval offer a suitable solution for every requirement, ensuring that the energy is safely and reliably transferred from the heating network to the building heating system with a very high level of efficiency.
The heat source for Hoval transfer stations can be a biomass heating system or waste or residual heat from power plants. Hoval's wide product range and systems expertise is brought fully to bear in micro-networks, as in such cases the heat generator is supplied by Hoval directly in the centralised heating system.

Added value for your benefit:

- Assured efficiency
- Preservation of value
- Customised solution
- Complete, ready-to-connect system

A look inside

Components and technical data.



TransTherm® giro (10,20,40,60,80)

Standard district heating transfer station for renovations and new buildings.

The standard TransTherm® giro district heating transfer station is particularly suitable for projects where building heating systems are to be integrated into a heating network with existing components.

The fully-welded stations feature flexible connection options and low pressure drops, as well as being easy to maintain and virtually indestructible.

Heating connections (secondary) top and bottom
for flexible, rapid installation.

Complete system with an integrated TopTronic® E controller
for:

- 1 direct circuit
- 1 mixer circuit
- 1 hot water charging

Compact design
requires little space and facilitates transport whilst also providing ready access to all system parts for service.

Preassembled at the factory
so saves time and effort during installation.

100 % thermal insulation
as a result of being completely lined with insulating non-woven pads.

Dependable, durable design with corrosion-resistant aluminium casing
provides longevity thanks to the fully welded design and operating safety thanks to proven technology.

Flexible connection options
avoid pipe crossovers during installation. The connections (primary) to the district heating network can be arranged on the left or right.

Stainless steel plate heat exchangers
ensure efficient heat transfer and a long service life thanks to Micro Plate™ technology.

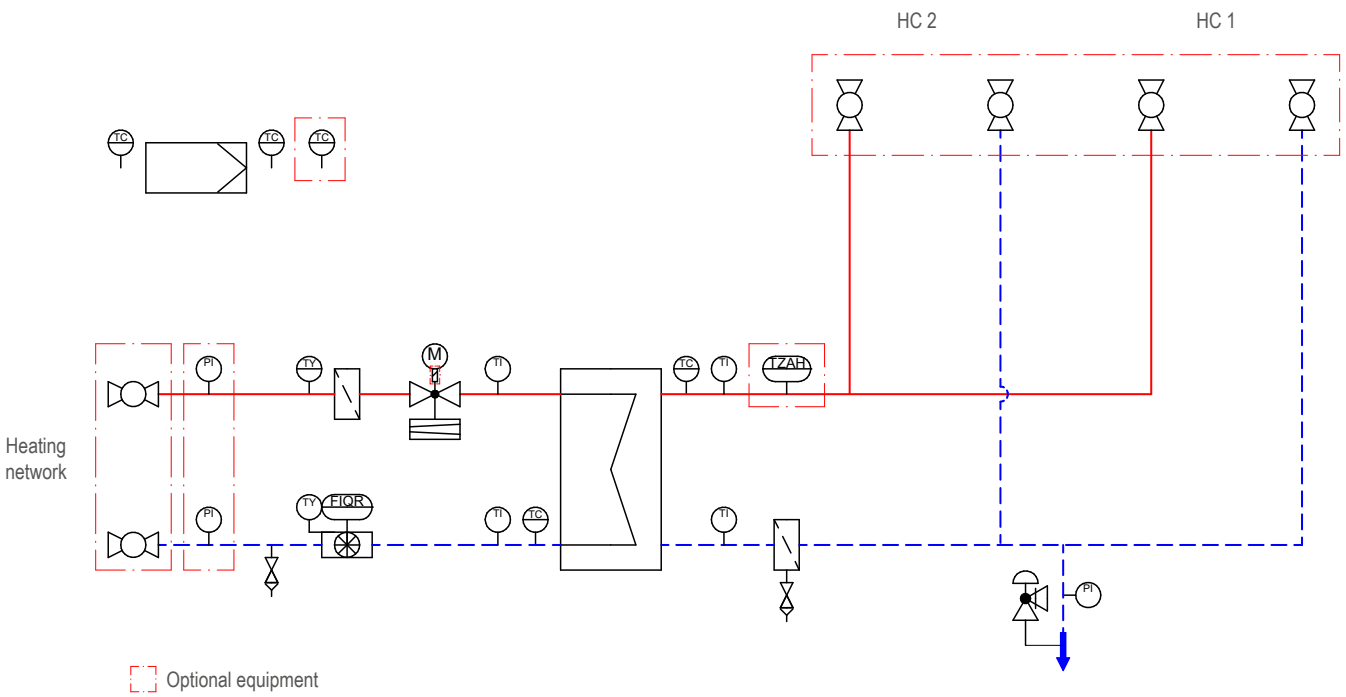
Excellent workmanship
Ensures low pressure drops and high efficiency levels.

TransTherm® giro (10,20,40,60,80)

Technical data.

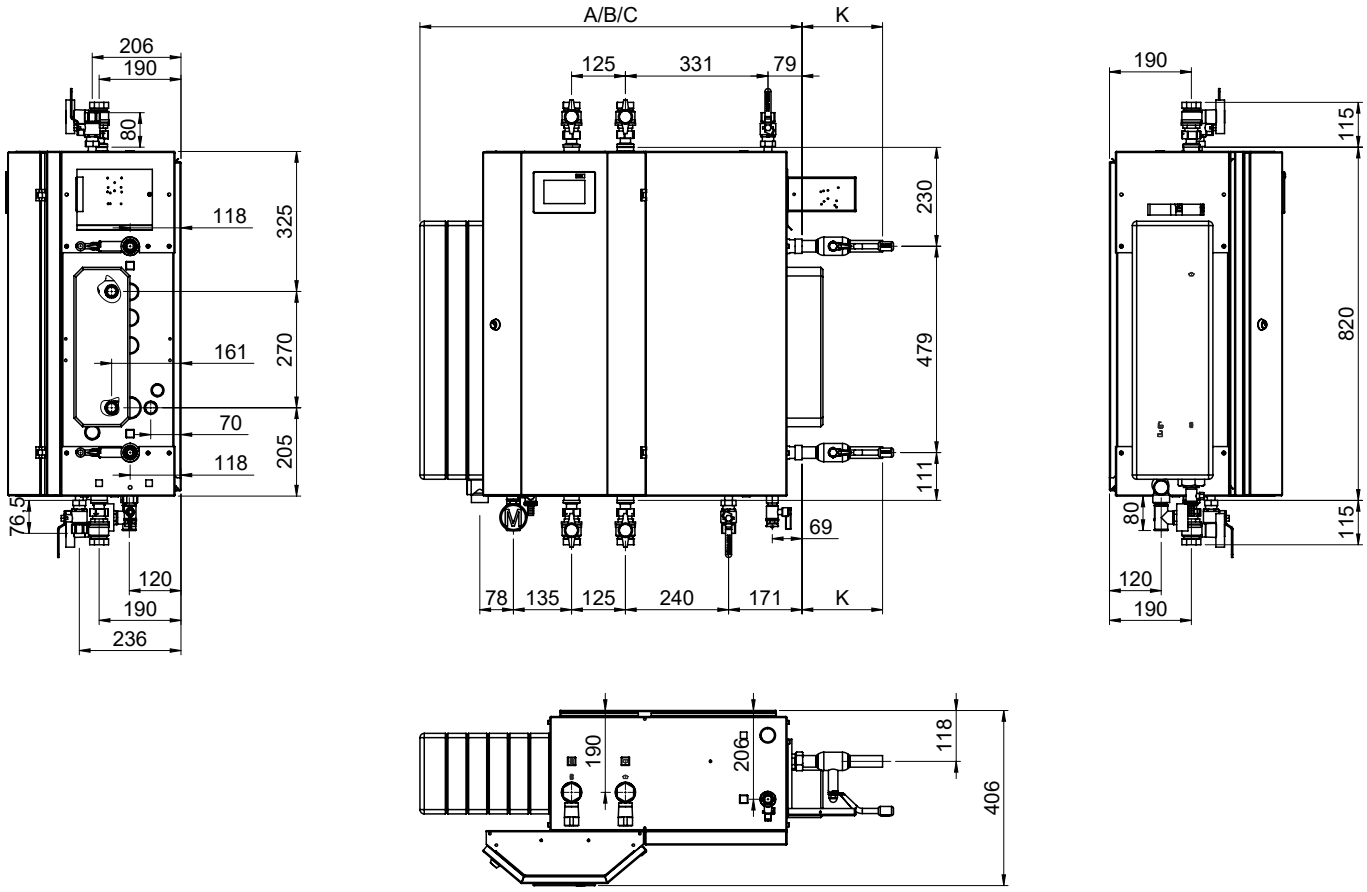
TransTherm® giro		Heating network	Building system heating	Building system heating
Connection			HC 2 top **or**	HC 1 bottom
Output	kW	5...248	5...248	5...248
Max. flow rate	l/h	6085	7200	7200
Nominal pressure (PN)	bar	10 / 16 / 25	6	6
Maximum pressure (PS)	bar	8 / 13 / 20	3 / 5	3 / 5
Test pressure (PT)	bar	12 / 19 / 29	5 / 8	5 / 8
Min. differential pressure (Δp_{min})	bar	0.6	0.1	0.1
Max. differential pressure (Δp_{max})	bar	4 / 12 / 20	0.4	0.6
Operating temperature (TB)	°C	140…70 – 60...30	90…70 – 65…28	90…35 – 60…28
Maximum temperature (TS)	°C	120 / 140 / 143	95	95
Connection dimension (DN)	Inch	G 1″	Rp 1″	Rp 1″
Thread connection option		Rp ¾″ / Rp 1″ / Rp 1¼″	Rp ¾″ / Rp 1″ / Rp 1¼″	Rp ¾″ / Rp 1″ / Rp 1¼″
Welded connection option		DN 20 / DN 25 / DN 32		

* All the values shown depend on the temperature program, output size, valves, heat exchangers and heat meters used, as well as the design variant.



TransTherm® giro (10,20,40,60,80)

Scale drawing.



TransTherm® giro C (10,20,40)

Standard district heating transfer station Compact for refurbishments and new builds.

Indirect district heating transfer station with heating circuit(s) and domestic water heating (continuous flow principle, storage tank principle), installed in a 400 mm wide wall casing. The equipment is configured specifically for the building.

The advantages of the TransTherm® giro C

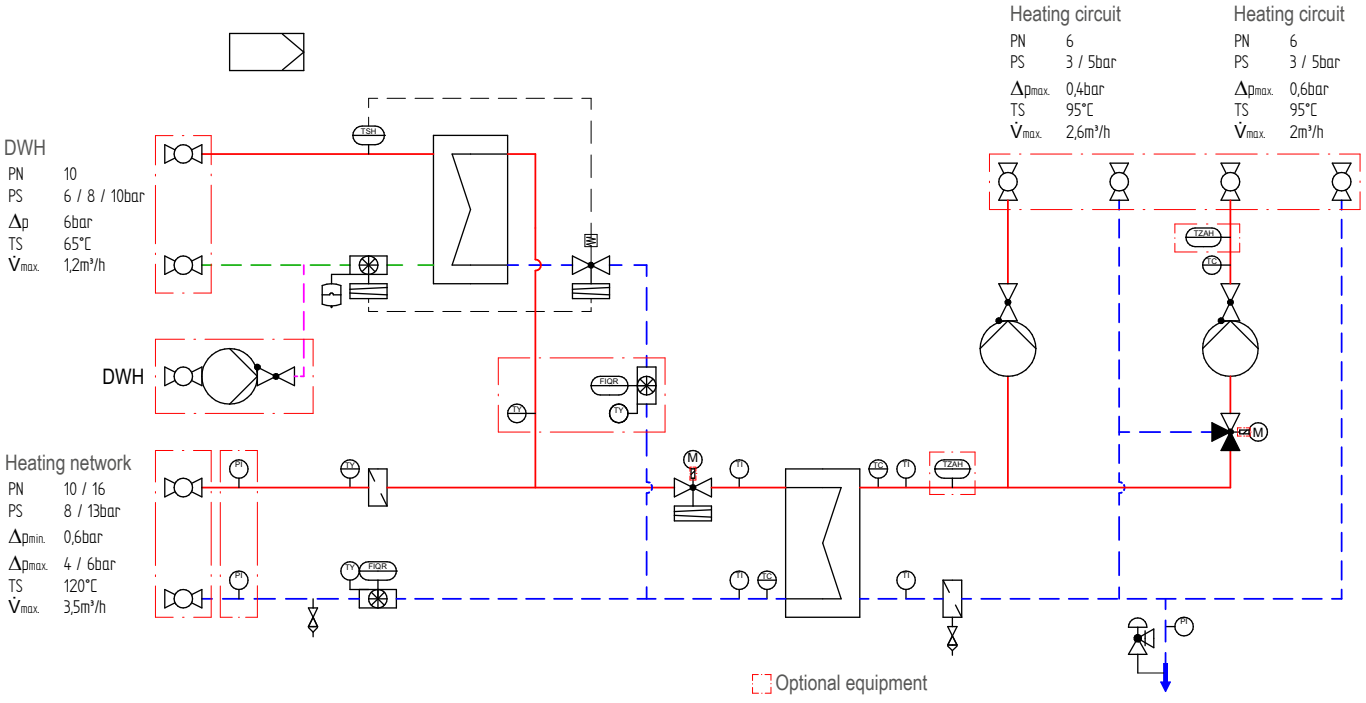
- Little space required thanks to particularly compact design
- Optimum application efficiency thanks to flexible configurations
- Universal heating network connection from the left or right (connection on left recommended) (giro principle)
- Heating connection at top and/or bottom
- Integrated domestic water heating (optional equipment)
- 50 % thermal insulation
- Minimal installation effort due to preassembled connections

TransTherm® giro C (10,20,40)

Technical data.

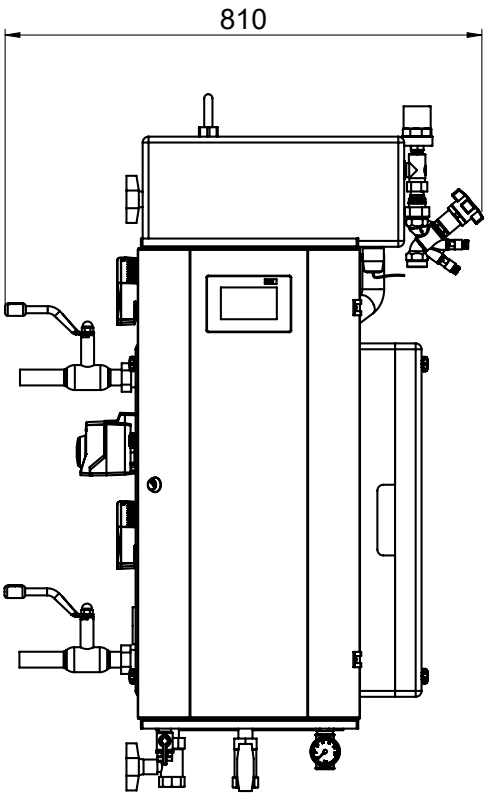
TransTherm® giro C		Heating network	Heating network TWE	Building system heating	Building system heating
Connection			TWE DL	DHC 2 top	MHC 1 bottom
Output	kW	5...124	5...93	5...91	5...124
Max. flow rate ($\dot{V}$)	l/h	3500	1742	2600	2000
Flow rate DW	l/h		1447		
Nominal pressure (PN)	bar	10 / 16	10	6	6
Maximum pressure (PS)	bar	8 / 13	6 / 8 / 10	3 / 5	3 / 5
Test pressure (PT)	bar	12 / 19	3	5 / 8	5 / 8
Min. differential pressure (Δp_{min})	bar	0.6	0.1	0.1	0.1
Max. differential pressure ($\Delta p_{max.}$)	bar	4 / 12	0.2	0.4	0.6
Operating temperature (TB)	°C	130…70 – 60...30	60 – 15…5	90…60 – 55…28	90…35 – 60…28
Maximum temperature (TS)	°C	143	80	95	95
Connection dimension (DN)	Inch	G 1″	Gp ¾″	Rp 1″	Rp 1″
Thread connection option		Rp ¾″ / Rp 1″ / Rp 1¼″	Rp ¾″	Rp ¾″ / Rp 1″ / Rp 1¼″	Rp ¾″ / Rp 1″ / Rp 1¼″
Welded connection option		DN 20 / DN 25 / DN 32			

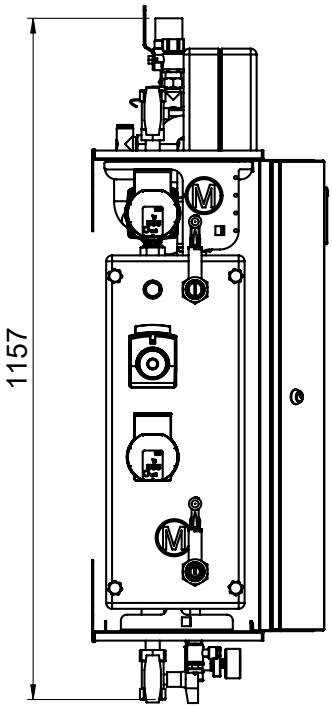
* All the values shown depend on the temperature program, output size, valves, heat exchangers and heat meters used, as well as the design variant.

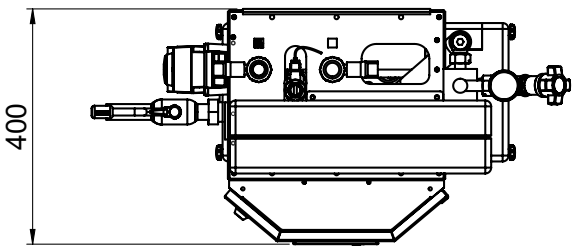


TransTherm® giro C (10,20,40)

Scale drawing.







TransTherm® giro plus (10,20,40,60,80)

Standard district heating transfer station plus domestic water calorifier and/or heating circuits.

The TransTherm® giro plus is a compact heat transfer station with an integrated fresh water module and heating fitting group. Thanks to its flexible connection options, it is equally suited to refurbishments and new buildings.

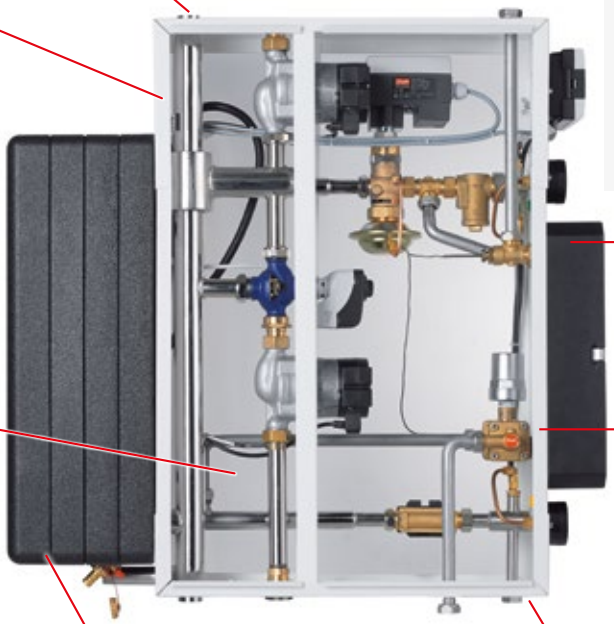
Complete system with an integrated TopTronic® E controller for:

- 1 direct circuit
- 1 mixer circuit
- 1 hot water charging

Heating connections (secondary) top and bottom
for quick, flexible installation.

Compact design
requires little space and facilitates transport whilst also providing ready access to all system parts for service.

Preassembled at the factory
so saves time and effort during installation.



Fresh water module
for producing hot water as required.

100 % thermal insulation
as a result of being completely lined with insulating non-woven pads.

Dependable, durable design with corrosion-resistant aluminium casing
provides longevity thanks to the fully welded design and operating safety thanks to proven technology.

Flexible connection options
avoid pipe crossovers during installation. The connections to the district heating network can be arranged on the left or right.

Stainless steel plate heat exchangers
ensure efficient heat transfer and a long service life thanks to Micro Plate™ technology.

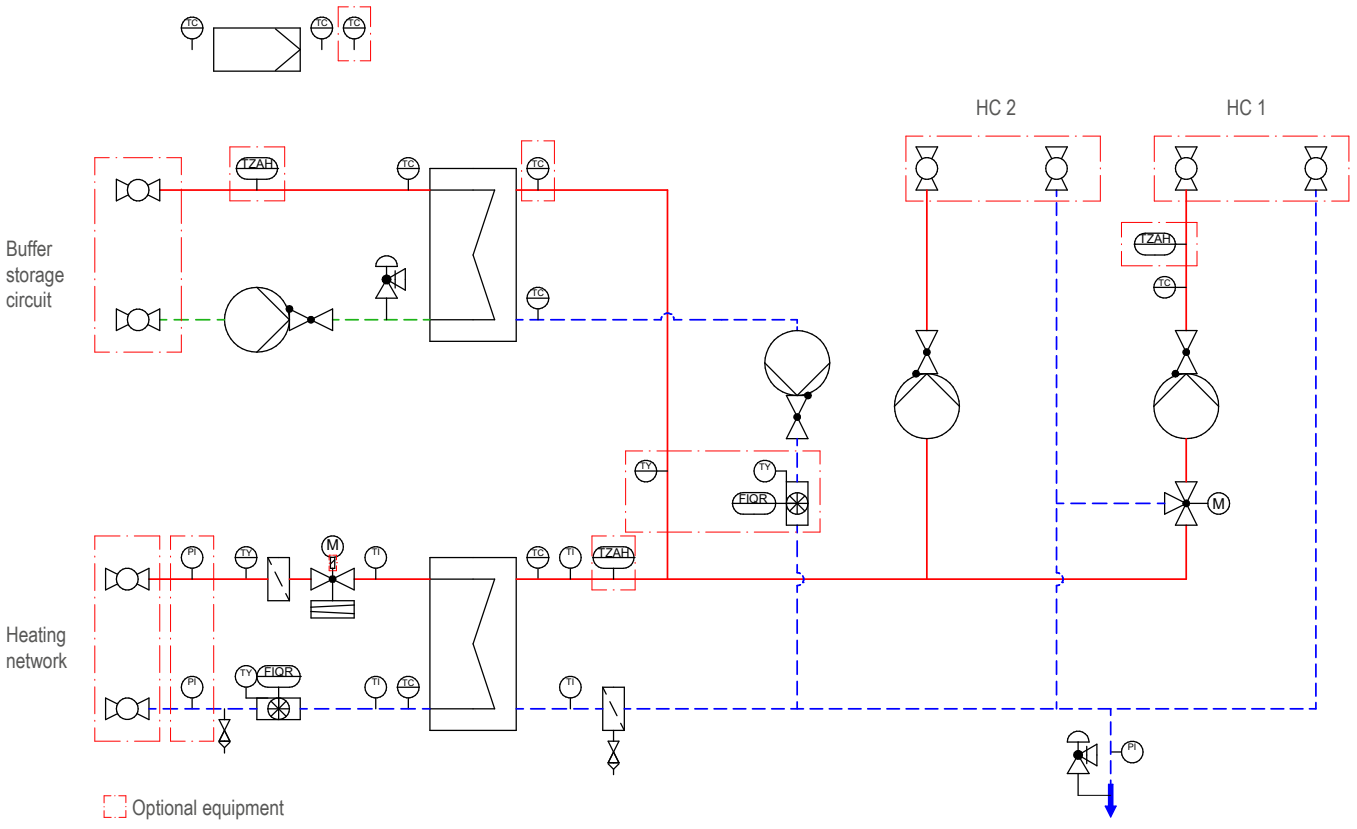
Excellent workmanship
Ensures low pressure drops and high efficiency levels.

TransTherm® giro plus (10,20,40,60,80)

Technical data.

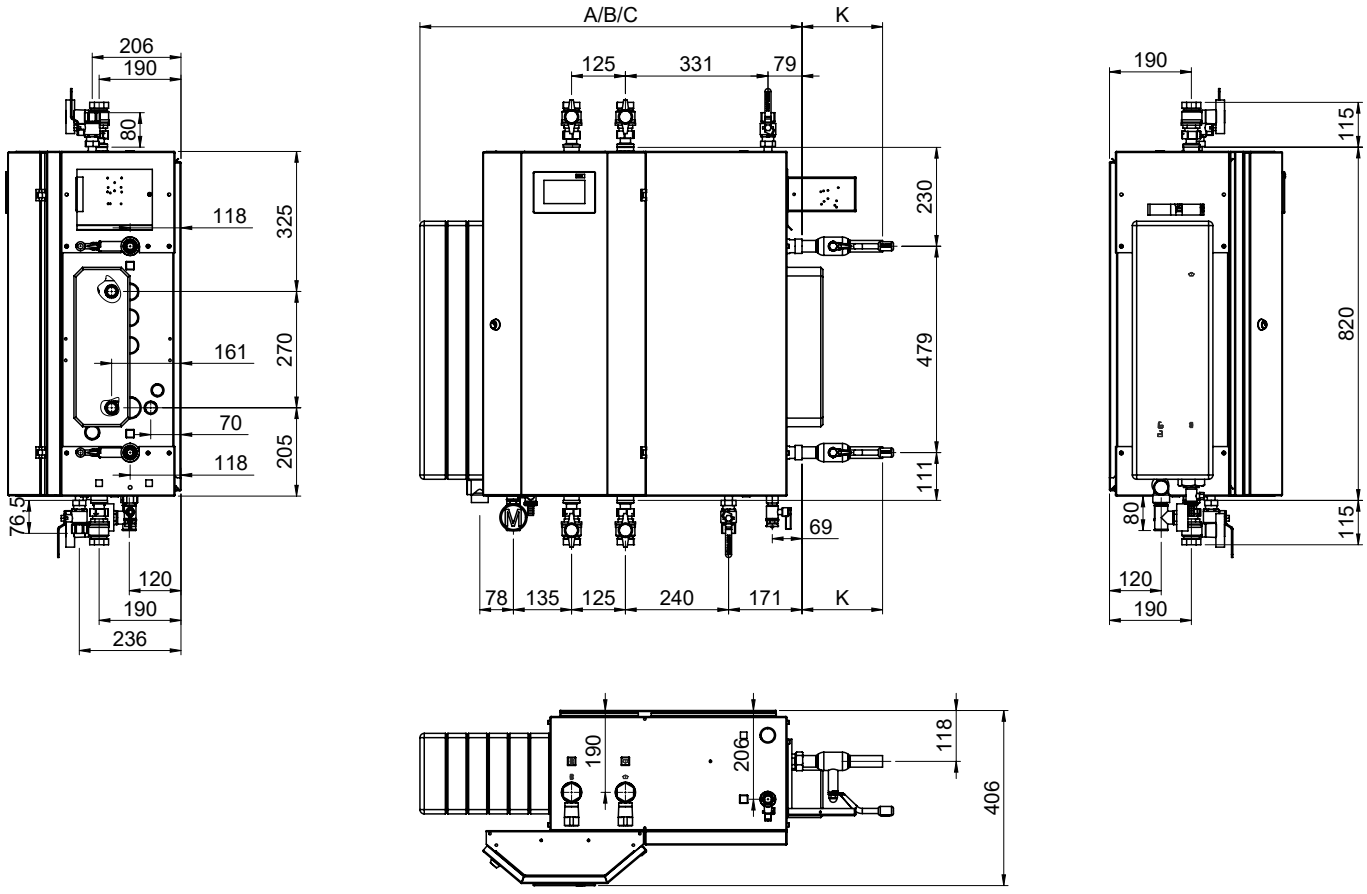
TransTherm® giro plus		Heating network		Building system heating	Building system heating
Connection			DHC 3 side **or**	DHC 2 top **or**	DHC 1 bottom
Output	kW	5...248	5...68	5...91	5...248
Max. flow rate	l/h	6085	1954	2600	7200
Flow rate DW	l/h	-		-	-
Nominal pressure (PN)	bar	10 / 16 / 25		6	6
Maximum pressure (PS)	bar	8 / 13 / 20		3 / 5	3 / 5
Test pressure (PT)	bar	12 / 19 / 29		5 / 8	5 / 8
Min. differential pressure (Δp_{min})	bar	0.6		0.1	0.1
Max. differential pressure (Δp_{max})	bar	4 / 12 / 20		0.4	0.6
Operating temperature (TB)	°C	140…70 – 60...30		90…70 – 65…28	90…35 – 60…28
Maximum temperature (TS)	°C	120 / 140 / 143		95	95
Connection dimension (DN)	Inch	G 1″		Rp 1″	Rp 1″
Thread connection option		Rp ¾″ / Rp 1″ / Rp 1¼″		Rp ¾″ / Rp 1″ / Rp 1¼″	Rp ¾″ / Rp 1″ / Rp 1¼″
Welded connection option		DN 20 / DN 25 / DN 32			

* All the values shown depend on the temperature program, output size, valves, heat exchangers and heat meters used, as well as the design variant.



TransTherm® giro plus (10,20,40,60,80)

Scale drawing.

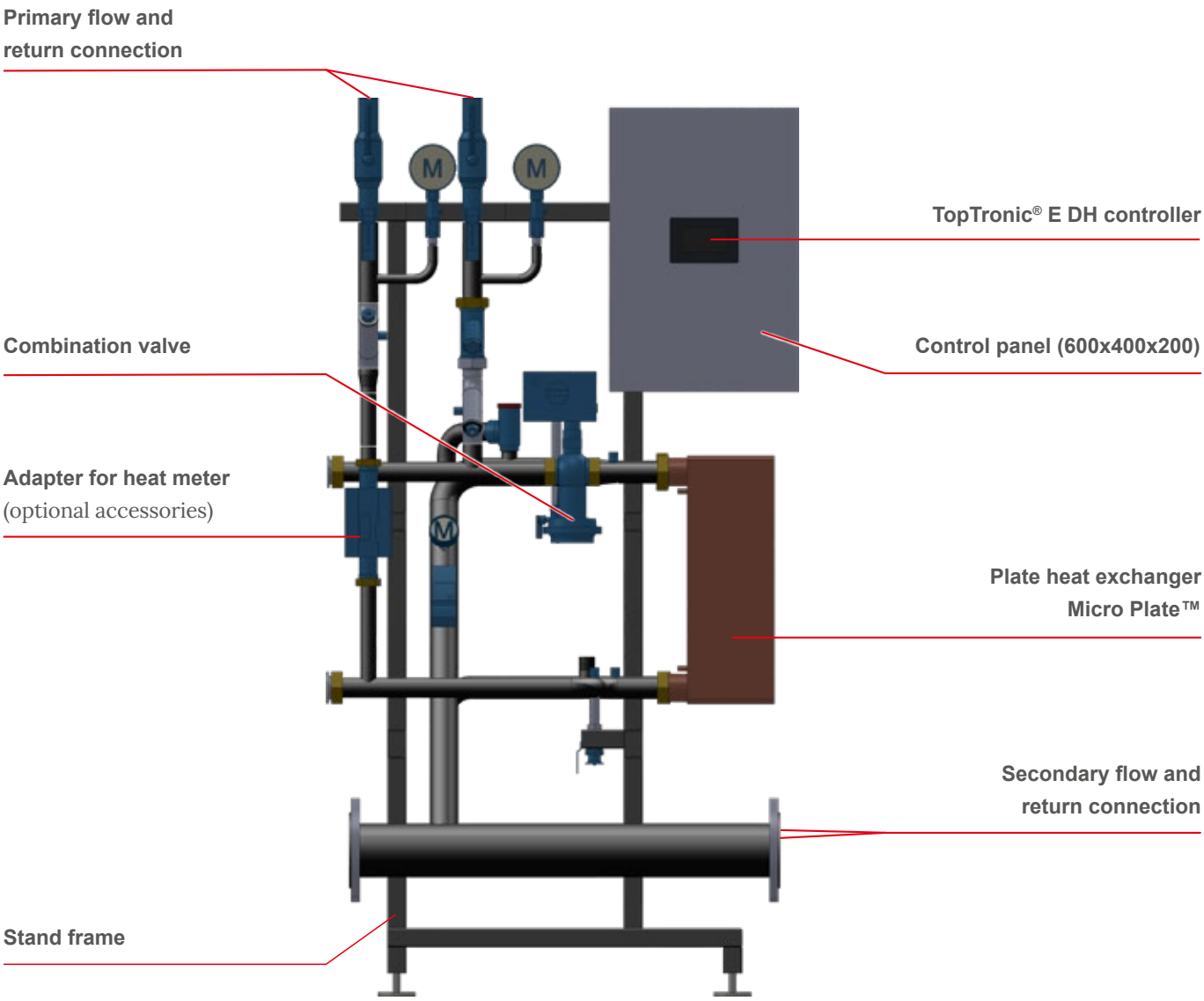


TransTherm® pro SC

Standard district heating transfer station for relatively large block of flats and non-residential buildings.

TransTherm® pro SC is a compact district heating station for conventional connection to the district or local heating network.

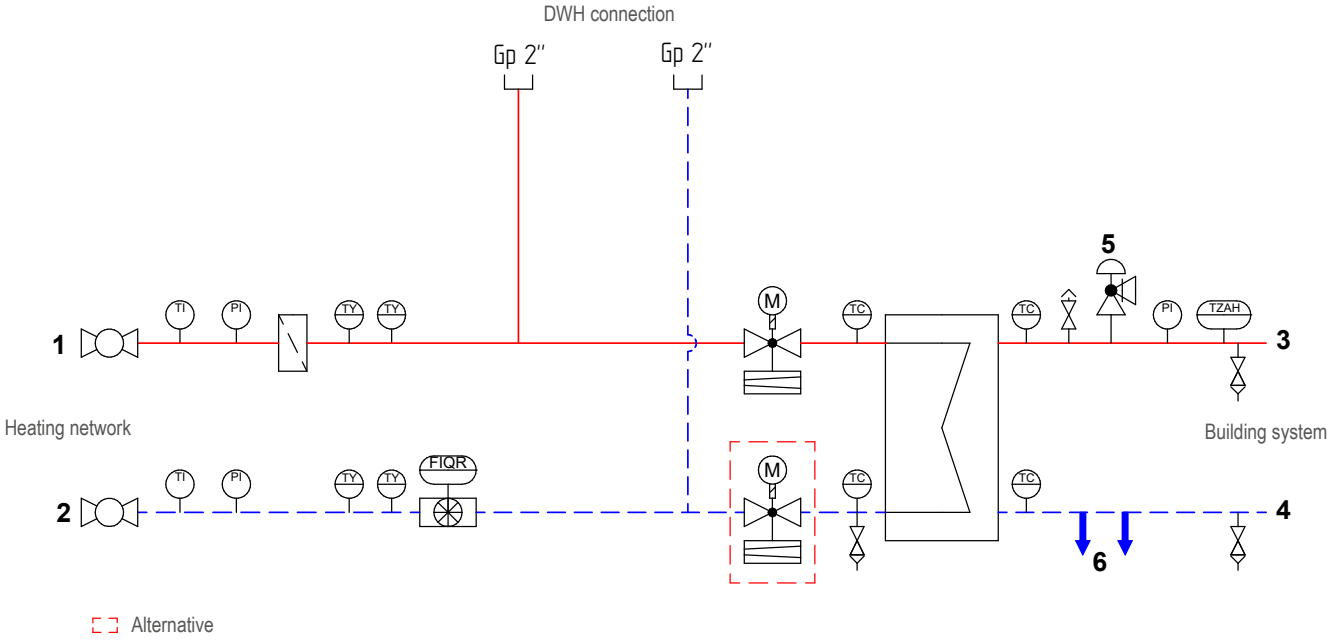
It is available in various output ratings for connection outputs from 100 to 450 kW.



TransTherm® pro SC

Technical data.

TransTherm® pro SC		
Heat output	kW	100-450
Max. operating pressure		up to PN 16
Max. operating temperature district heating primary	°C	140
Max. flow rate district heating primary	m³/h	5.87
Max. operating temperature heating secondary		up to PN 6
Max. operating temperature heating secondary	°C	95
Max. flow rate heating secondary DN 100	m³/h	21
Max. flow rate heating secondary DN 150	m³/h	46.6



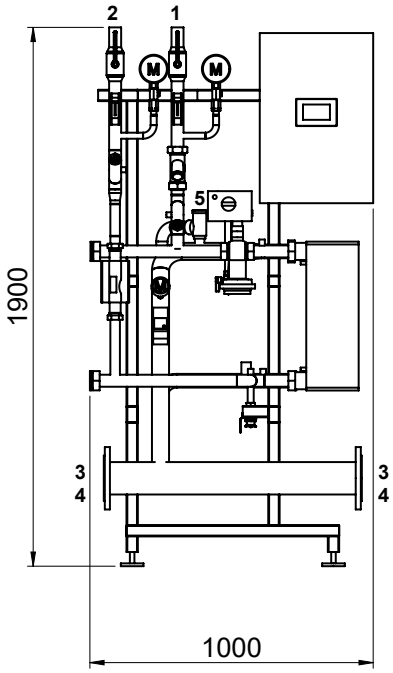
1	Flow primary
2	Return primary
3	Flow secondary
4	Return secondary
5	Safety valve
6	Pressuriser connection

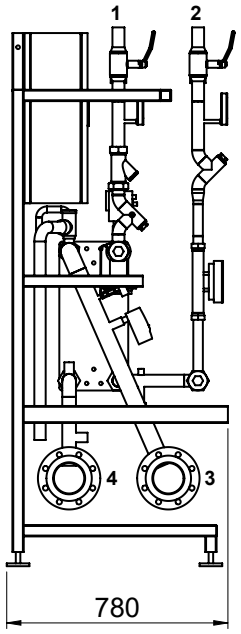
TransTherm® pro SC (DN 100)

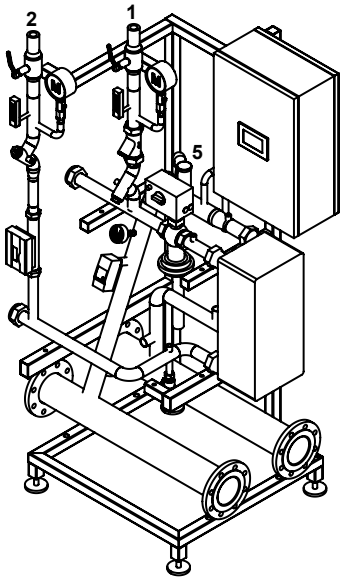
Scale drawing.

District heating connection top – outside view

(Dimensions in mm)







1	Flow primary	DN 32
2	Return primary	DN 32
3	Flow secondary	DN 100
4	Return secondary	DN 100
5	Safety valve	R 1″

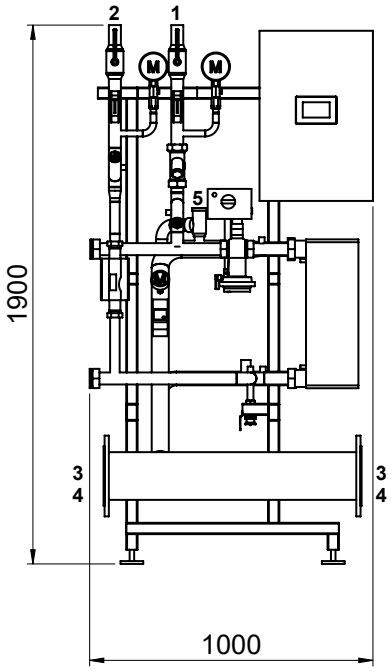
Heating connection possible on the right and/ or left. Centre distance suitable for heating distributor TransShare standard design DN 100.

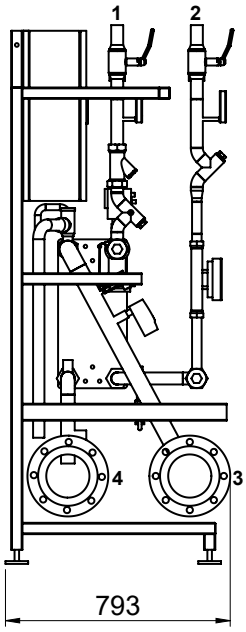
TransTherm® pro SC (DN 150)

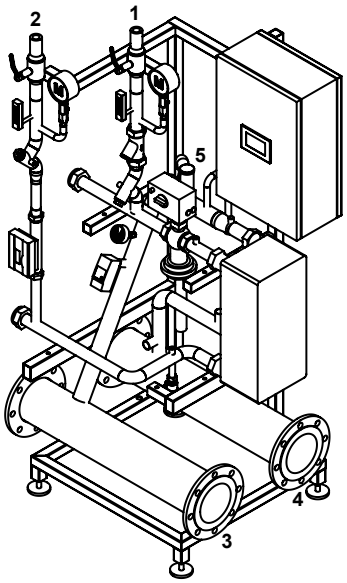
Scale drawing.

District heating connection top – outside view

(Dimensions in mm)







1	Flow primary	DN 32
2	Return primary	DN 32
3	Flow secondary	DN 150
4	Return secondary	DN 150
5	Safety valve	R 1″

Heating connection possible on the right and/or left. Centre distance suitable for heating distributor TransShare standard design DN 150.

TransTherm® pro

Individually produced district heating transfer station for every application.

The TransTherm® pro offers a made-to-measure solution to suit all requirements and all power ranges above 15 kW. The TransTherm® pro stations are designed and constructed specifically for your building from the ground up. Heating power of 15 to 10.000 kilowatts and more can be achieved.

Individually designed and manufactured

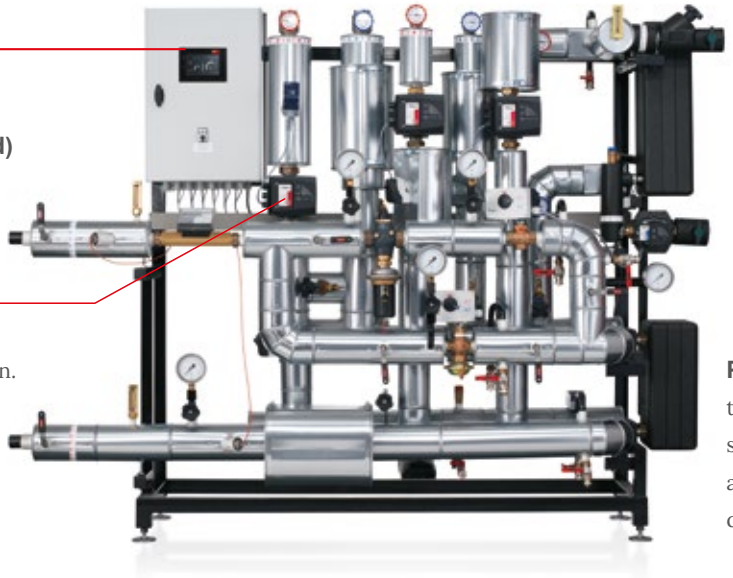
TransTherm® pro enables you to meet an extremely wide range of requirements regarding the efficient distribution of heat to the building and the dimensioning of the heat output. Each system is individually designed and the transfer station is custom-constructed and manufactured; but the installation process stays simple, since the TransTherm® pro is supplied ready to connect. Hoval control equipment and Hoval Service guarantee highly efficient and reliable operation.

3D planning aid

On request, our specialists create 3D design drawings of stations with complex designs or difficult local conditions. These are useful instruments when planning the transport of systems into buildings and their final location.

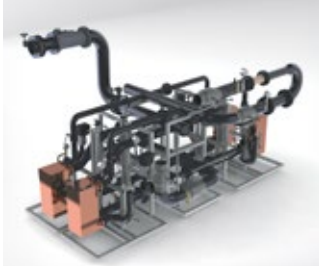
Integration into central control technology (HovalSupervisor cloud) possible

High-efficiency pump
for energy-saving operation.



Pre-wired and ready to connect
this is how all electrical components such as the district heating controller and all field devices including pumps, drives, sensors, etc. are supplied.

TransTherm® pro district heating stations with a fully welded design are mounted in a non-vibrating manner on a floor or wall mounting frame. Special paintwork provides effective protection against corrosion.



Optimised pre-wiring in cascade systems with a multi-frame design keeps connection work to a minimum.

If cramped local conditions make it difficult to transport the station into the building, the system can be designed with a modular structure that allows it to be separated into multiple parts.

TopTronic® E system controller

For district heating transfer stations and entire heating networks.

TopTronic® E control module for the district heating station

TopTronic® E: Intelligent command centre for your heating system

The TopTronic® E district heating controller takes over the communication function to the HovalSupervisor cloud control system. This makes it possible to read out all relevant system data using a bus system.
The setpoint and actual temperature values, heating times and settings are monitored and adjusted remotely. M-bus-compatible heat meters transmit their data, which in turn is evaluated via the HovalSupervisor cloud control technology, to provide the user with information about the cost-effectiveness of the particular heating system.

TopTronic® E room control module for high levels of convenience

User-friendly operation with the optional room station

The ideal convenience solution for controlling the heating is the room station. This remote control with a room thermostat is easy to use and regulates the room temperature according to the settings that have been made. It can also be used to set the various operating modes, activation times and timer programs.

Clear system visualisation on the screen of the HovalSupervisor cloud

HovalSupervisor cloud: Total control over the entire heating network

The HovalSupervisor cloud control and communication unit executes the higher-level control tasks in complex heating networks and communicates with the TopTronic® E control unit in the TransTherm® heat transfer stations. The system monitors and controls the heating network and the transfer of information to the building technology system, whilst also continuously providing all relevant operational data, which can be conveniently monitored and analysed on the screen. It also optimises energy usage during heat generation.

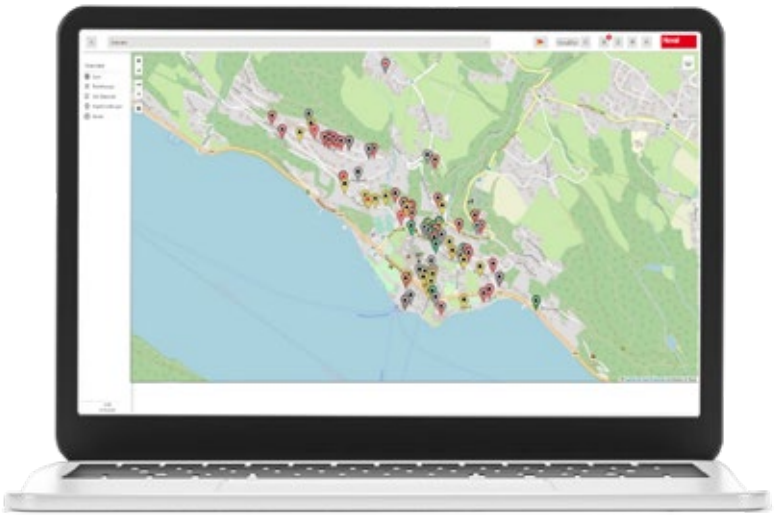
remote control on the move via HovalConnect and HovalSupervisor cloud

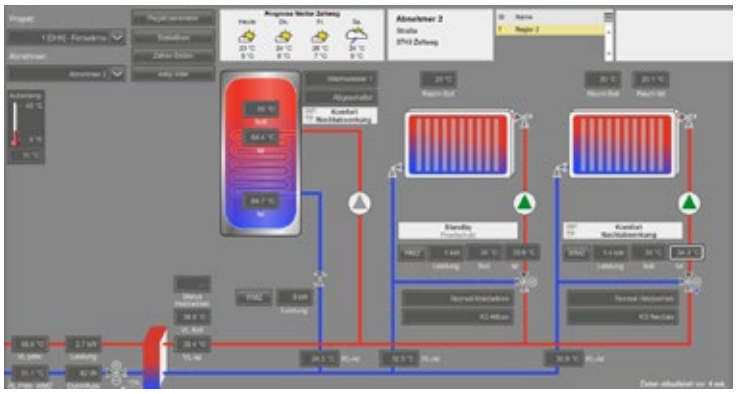
HovalSupervisor cloud

District Heating Network (DHN).

Customised solution for district heating networks with full overview and evaluation across all systems.

- Detailed visualisation of energy centres
- Clear listing and visualisation of all systems of district heating customers
- Detailed efficiency analysis options using graphs and tables
- Easy readability of all heat meters





Hoval system solutions

Heating networks from a single source.

In addition to the controller, Hoval will also provide you with the other key components for a heating network. This guarantees efficient system solutions – including support for design, implementation and service.

Heating network with Hoval components: power station with combined heat and power plant (1/cooperation partner), heat generator UltraGas® (2) and buffer storage tank (3), district heating transfer stations TransTherm® pro (4), TransTherm® giro (5), TransTherm® pro SC (6), heating distributor TransShare (7) and calorifiers (8) – all connected by the TopTronic® system controller.

System controller Hoval TopTronic®

Combined heat and power plant (cooperation partner)

Heat generator Hoval UltraGas®

Hoval buffer storage tank

District heating transfer station TransTherm® pro

District heating transfer station TransTherm® giro

District heating transfer station TransTherm® pro SC

Heating distributor Hoval TransShare

Hoval calorifiers

Hoval quality.
You can count on us.

Hoval

Hoval is one of the leading international companies for heating and indoor climate solutions. Drawing on more than 80 years of experience and benefiting from a close-knit team culture, the Hoval Group delivers exciting solutions and develops technically superior products. This leadership role requires a sense of responsibility for energy and the environment, which is expressed in an intelligent combination of different heating technologies and customised indoor climate solutions.

Hoval also provides personal consultations and comprehensive customer service. With around 2500 employees in 15 companies around the world, Hoval sees itself not as a conglomerate, but as a large family that thinks and acts globally.
Hoval heating and indoor climate solutions are currently exported to more than 50 countries.

Responsibility for energy and environment

Liechtenstein
Hoval Aktiengesellschaft
9490 Vaduz
+423 399 24 00
hoval.com

United Kingdom
Hoval Ltd.
Newark Notts. NG 24 1JN
+44 1636 672 711
hoval.co.uk

2025 - 07 | Subject to modifications

Your Hoval partner