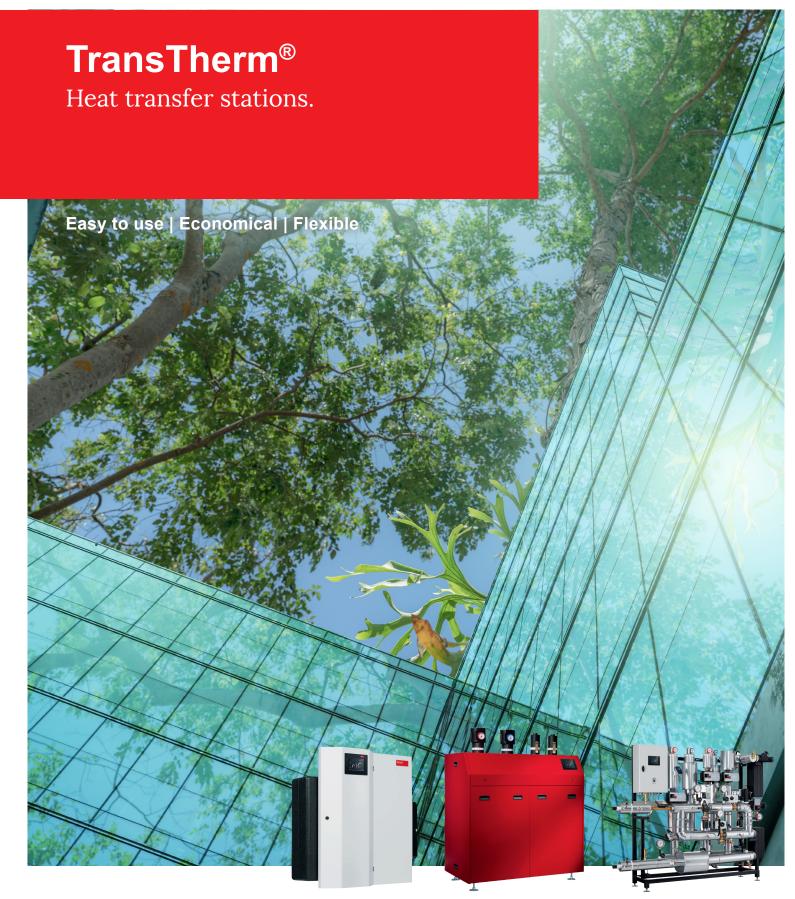
Hoval

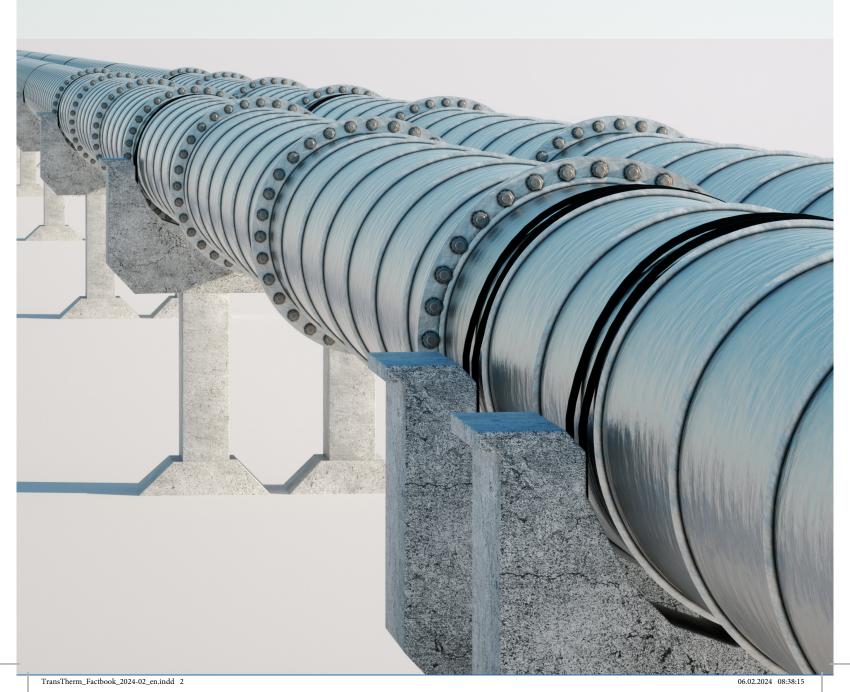
FACTBOOK



 $\textbf{Hoval} \mid \text{Responsibility for energy and environment}$

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Content





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Heat 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 heat transfer stations play an important role in such systems.

Hoval heat transfer stations fulfil their task at the highest possible level, thanks 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 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.

Compact heat transfer station

- with integrated fresh water module and heating valves
- for renovations and new buildings
- Heat outputs: 10 91 kW

Compact station

- for heat transfer and regulation of heating and hot water production systems
- Heat outputs: 75 1720 kW

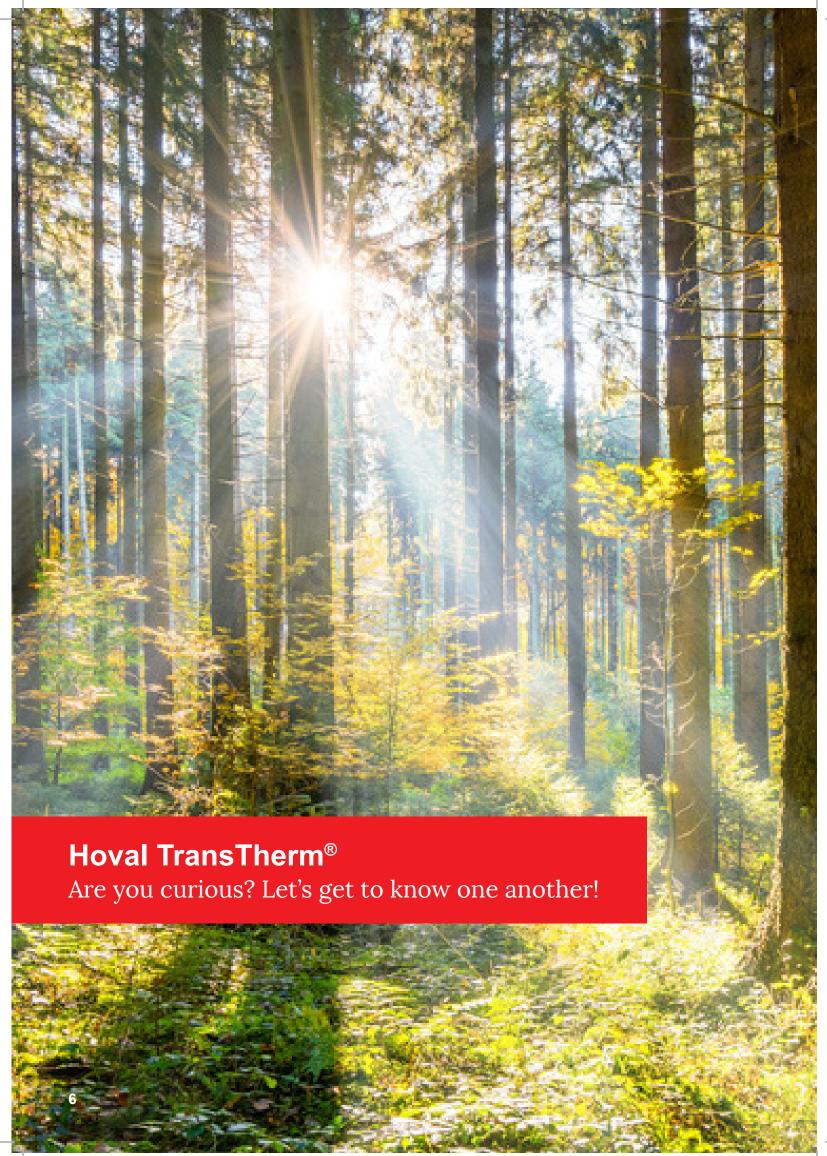
Heat transfer station produced individually

- for every application and every power range
- Heat outputs: 10 30000 kW









Hoval heat transfer stations

This is what they can do.

TransTherm® performance overview



Hoval TransTherm® heat transfer stations: 5 models for an extremely wide range of applications covering an output range from 10–30000 kW.

TransTherm® heat transfer stations

Your advantages at a glance.

The TransTherm® giro heat transfer station with ready-to-connect complete system for local and district heating networks is suitable both as a compact station in single-family homes and for customised transfer stations as part of complex system solutions. The TransTherm® giro 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

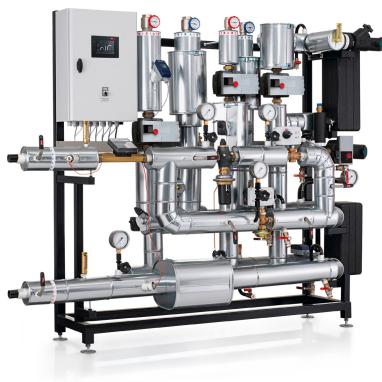
The system solutions offer the best price/performance ratio, among other benefits, based on efficient, customised products for every requirement. Moreover, the unit guarantees maximum operating safety and longevity thanks to high-quality materials. The robust design of the unit ensures that the TransTherm® giro is easy to operate. 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 TransTherm® giro 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.

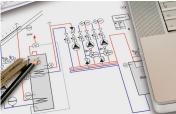
High efficiency

The heat exchanger made of high-quality stainless steel ensures efficient heat transfer. The TopTronic® E controller ensures an economical and demand-driven heat supply.











Complete, installation-friendly solution

When designing the TransTherm® heat transfer stations, the focus was on creating units that are flexible and simple to install. 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 heat 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. 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

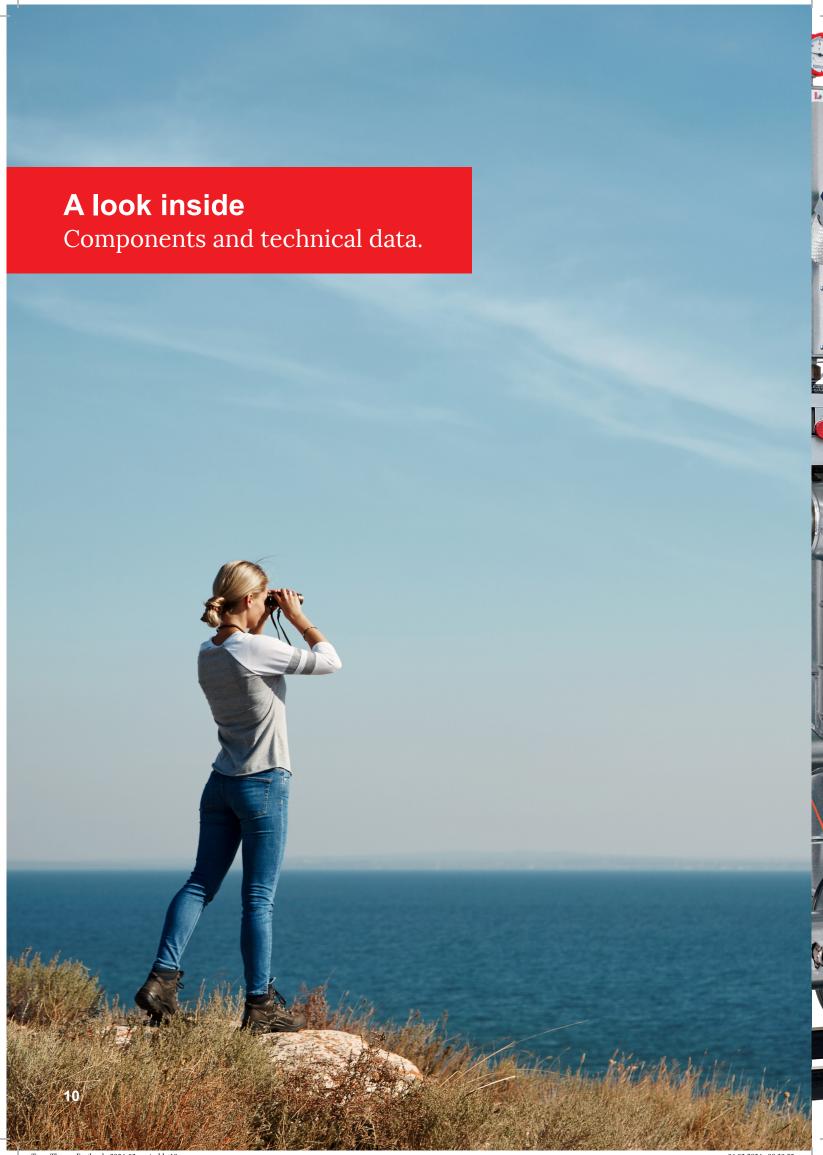
The high-quality heat transfer stations from Hoval offer a suitable solution for every requirement, ensuring that the energy is safely and reliably transferred from the heating network to the building heating system with a very high level of efficiency.

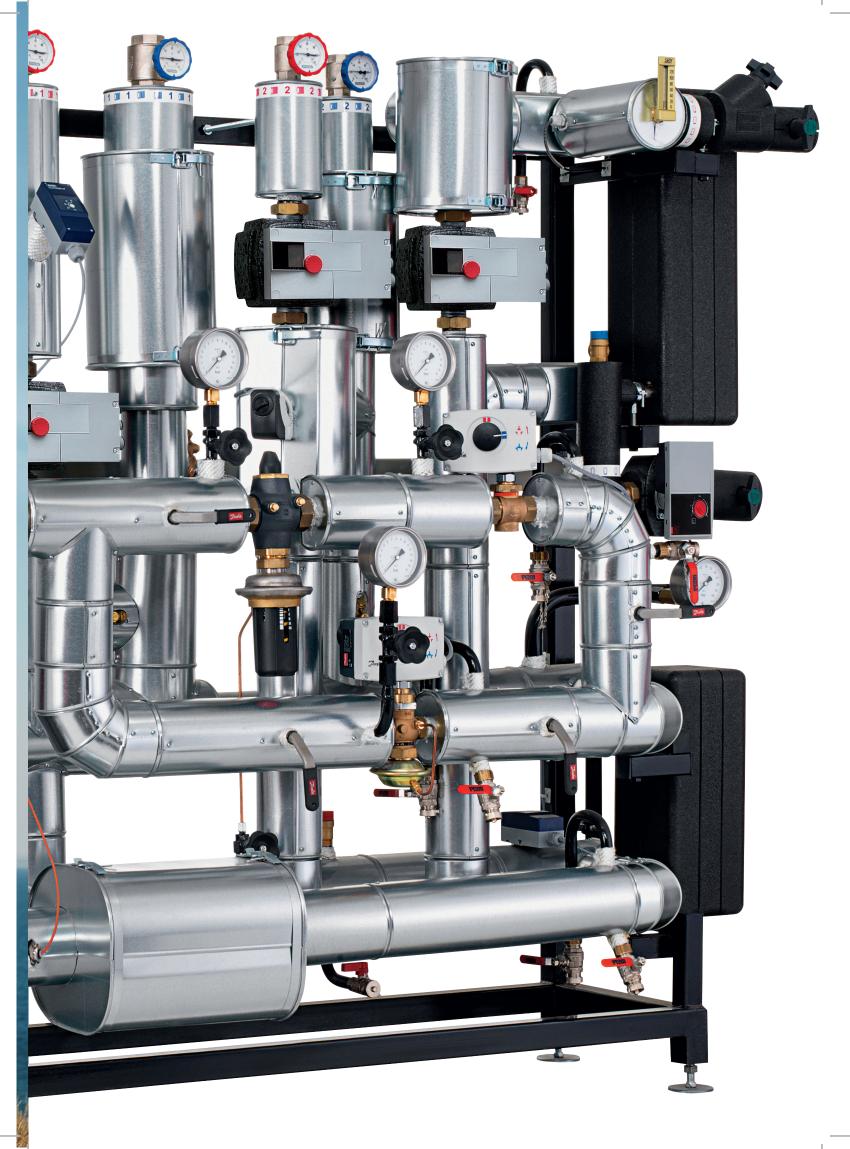
The heat source for Hoval transfer stations can be a biomass heating system or waste or residual heat from power plants. Hoval's wide product range and systems expertise is brought fully to bear in micro-networks, as in such cases the heat generator is supplied by Hoval directly in the centralised heating system.

Added value for your benefit:

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

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TransTherm® giro (10,20,40,60,80)

Compact heat transfer station for renovations and new buildings.

The compact heat transfer station TransTherm® giro 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.

Secondary connections at the 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 to the district heating network can be arranged on the left or right.

Stainless steel plate heat exchangers

ensure efficient heat transmission and a long service life.

Excellent workmanship

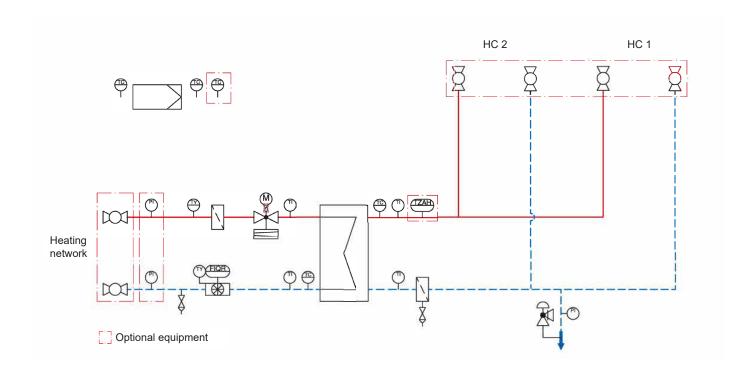
Ensures low pressure drops and high efficiency levels.

12

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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	5248	5248	5248
Max. flow rate	l/h	6085 (3500 ¹)	7200 (3500 ¹)	7200 (3500 ¹)
Flow rate DW	l/h			
Nominal pressure	bar	10 / 16 / 25	6	6
Maximum pressure	bar	8 / 13 / 20	3/5	3 / 5
Test pressure	bar	12 / 19 / 29	5/8	5 / 8
Min. differential pressure	bar	0.6	0.1	0.1
Max. differential pressure	bar	4 / 12 / 20	0.4	0.6
Operating temperature	°C	14070 – 6030	9070 – 6528	9035 – 6028
Maximum temperature	°C	120 / 140 / 143	95	95
Connection dimension	Inch	G 1"	Rp 1"	Rp 1"
Thread connection option		Rp ¾" / Rp 1" / Rp 1¼"	Rp ¾" / Rp 1" / Rp 1¼"	Rp 3/4" / Rp 1" / Rp 11/4"
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 (construction as giro C).

1) Deviating characteristic data with compact design variant TransTherm® giro C

TransTherm® giro C

Compact heat transfer station for renovations and new buildings.

Indirect heat transfer station with heating circuit(s) and DHW heating (instantaneous heating 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 (giro principle)
- Heating connection at top and/or bottom
- Integrated domestic water heating (optional equipment)
- 50 % thermal insulation due to progressive insulation system
- Minimal installation effort due to preassembled connections



14

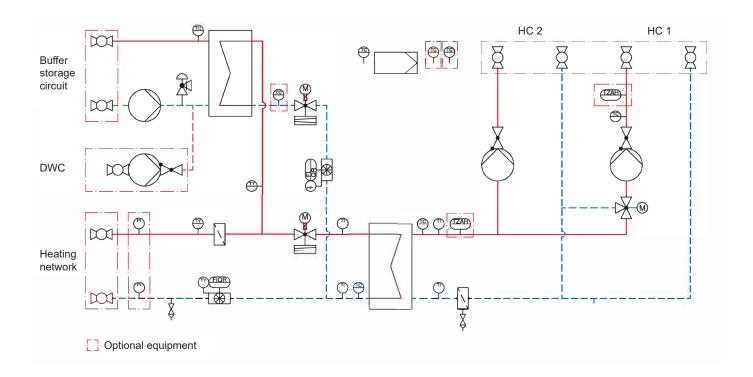




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TransTherm® giro C

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	5248	593	591	5195
Max. flow rate	l/h	6085 (3500 ¹)	1742	2600	6200 (2000 ¹)
Flow rate DW	l/h		1447		
Nominal pressure	bar	10 / 16	10	6	6
Maximum pressure	bar	8 / 13	6 / 8 / 10	3/5	3/5
Test pressure	bar	12 / 19	3	5/8	5/8
Min. differential pressure	bar	0.6	0.1	0.1	0.1
Max. differential pressure	bar	4 / 12	0.2	0.4	0.6
Operating temperature	°C	13070 – 6030	60 – 155	9060 – 5528	9035 – 6028
Maximum temperature	°C	143	80	95	95
Connection dimension	Inch	G 1"	Gp ¾"	Rp 1"	Rp 1"
Thread connection option		Rp 3/4" / Rp 1" / Rp 11/4"	Rp 3/4"	Rp 3/4" / Rp 1" / Rp 11/4"	Rp 3/4" / Rp 1" / Rp 11/4"
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 (construction as giro C).

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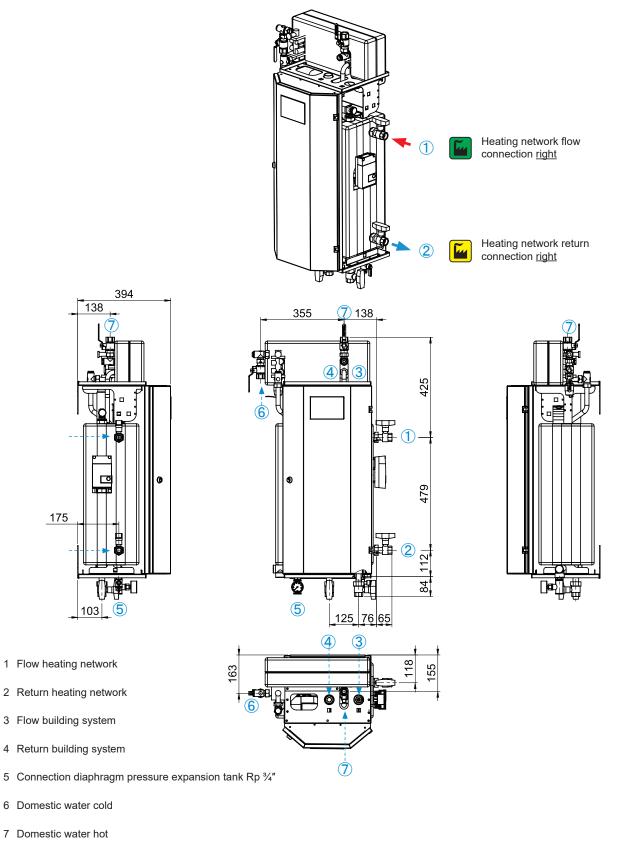
 $^{^{\}rm 1}$) Deviating characteristic data with compact design variant TransTherm $^{\rm e}$ giro C

TransTherm® giro C

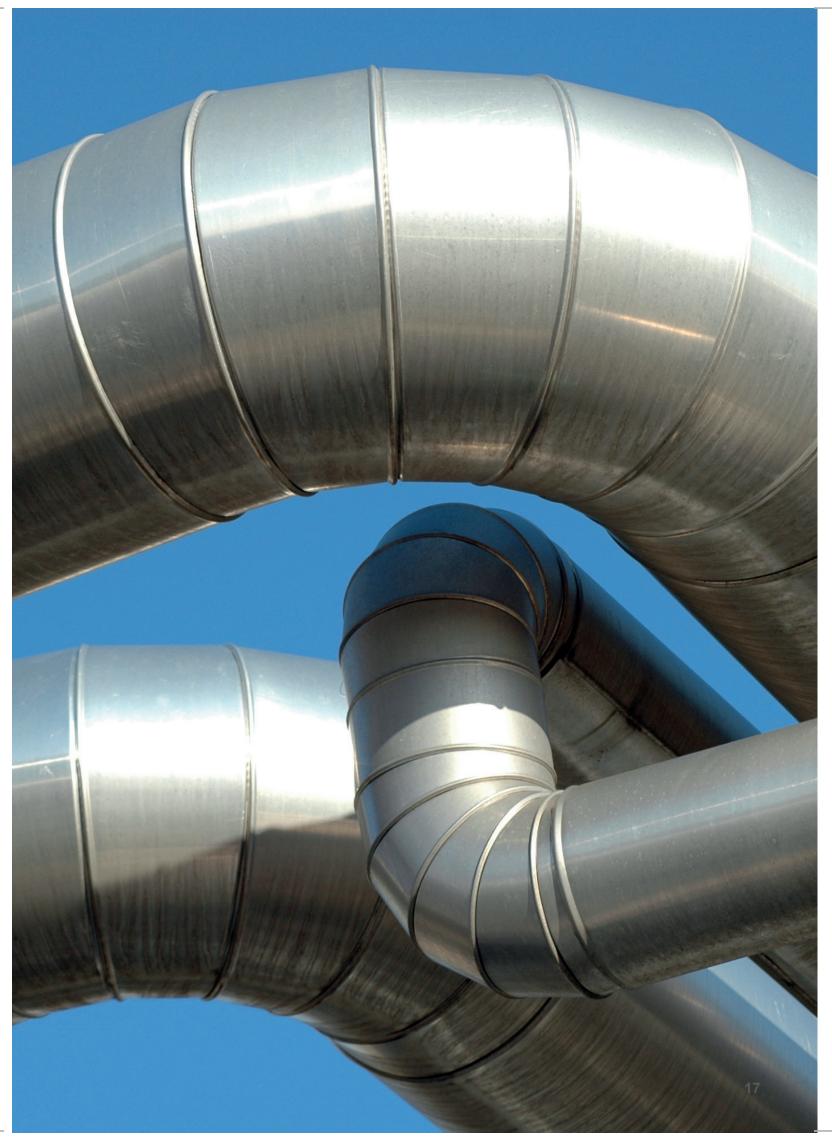
Scale drawing

16

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TransTherm® giro plus (10, 20, 40)

Compact heat transfer station with DHW module and group of heating valves.

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.

Secondary connections at the top and bottom

for flexible, rapid 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.

100 % thermal insulation

as a result of being completely lined with insulating non-woven pads.





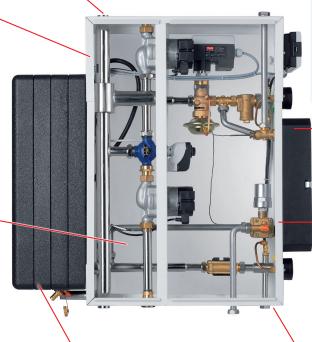


TransTherm_Factbook_2024-02_en.indd 18



Flexible connection options

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





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

Fresh water module

for producing hot water as required.

Dependable, durable design with corrosion-resistant aluminium casing

provides longevity thanks to the fully welded design and operating safety thanks to proven technology.

Stainless steel plate heat exchangers

ensure efficient heat transmission and a long service life.

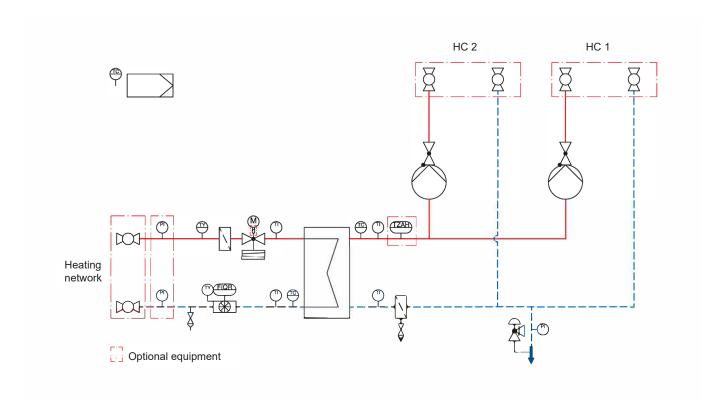
Excellent workmanship

Ensures low pressure drops and high efficiency levels.

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TransTherm® giro plus (10, 20, 40)

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	5248	568	591	5248
Max. flow rate	l/h	6085 (3500 ¹)	1954	2600	7200 (2600 ¹)
Flow rate DW	l/h	-		-	-
Nominal pressure	bar	10 / 16 / 25		6	6
Maximum pressure	bar	8 / 13 / 20		3/5	3/5
Test pressure	bar	12 / 19 / 29		5 / 8	5/8
Min. differential pressure	bar	0.6		0.1	0.1
Max. differential pressure	bar	4 / 12 / 20		0.4	0.6
Operating temperature	°C	14070 – 6030		9070 – 6528	9035 – 6028
Maximum temperature	°C	120 / 140 / 143		95	95
Connection dimension	Inch	G 1"		Rp 1"	Rp 1"
Thread connection option		Rp ¾" / Rp 1" / Rp 1¼"		Rp 3/4" / Rp 1" / Rp 11/4"	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 (construction as giro C).

1) Deviating characteristic data with compact design variant TransTherm® giro C

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TransTherm® pro S/RS (A-66-H-200)

High-quality compact station in 8 output ratings with and without casing for larger systems.

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

It is available in 8 different output ratings for connection outputs from 30 - 1720 kW. The TransTherm® pro RS design is available with casing.



The TransTherm® pro RS design with aluminium sheet casing

Secondary flow and return

Primary flow and return

TopTronic® E controller

can be operated from the outside to enable the system to be controlled in a user-friendly, needs-oriented manner. The usage periods are freely programmable.

Integrated heat meter (optional)

Precisely records consumption for monitoring purposes.

Control panel

Stainless steel plate heat exchangers

ensure efficient heat transmission and a long service life.

Sturdy metal frame



Combination valve

for performance control.

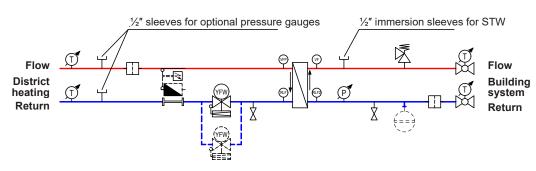
TransTherm® pro S/RS (A-66-H-200)

Technical data.

TransTherm® pro S/RS 110 °C (16 bar)



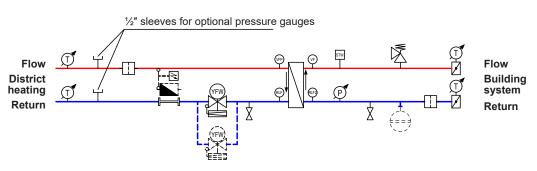




TransTherm® pro S/RS 140 °C (16 bar), 150 °C (25 bar)







Type and performance overview TransTherm® pro S/RS		(A-66)	(B-96)	(C-80)	(D-120)	(E-140)	(F-160)	(G-180)	(H-200)
Heat output 1)	kW	149	194	240	400	494	572	915	1417
TransTherm® pro S/RS		District heating network, heating water			ting water	Secondary heating			
Heat output 1)	kW		149-	1471		149-1417			
Operating temperature			max. 110/150			max. 110			
Operating pressure		16/25			max. 6				
Connection size		DN 32-100			DN 40-125				
Closing pressure of valve actuating drive 1)		12-20							
Casing dimensions (W/H/D)		1190/1440/600							
TransTherm® pro RS (A–C)		2350/1600/640							
TransTherm® pro RS (D–G) incl. heat exchanger n		1765/1600/640							
without heat exchanger	mm								

¹⁾ Reference temperature primary 90 - 52 °C / secondary 70 - 50 °C

TransTherm® pro

Heat transfer station produced individually to suit every application.

The TransTherm® pro offers a made-to-measure solution to suit all requirements and all power ranges above 10 kW. The TransTherm® pro stations are designed and constructed specifically for your building from the ground up. Heating power of 10 to 30000 kilowatts and more can be achieved.

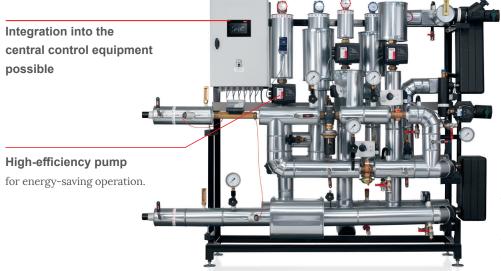
output. Each system is individually designed and the transfer station is custom-constructed and manufactured; but the installation process stays simple, since the TransTherm® pro is supplied ready to connect. Hoval control equipment and Hoval Service guarantee highly efficient and reliable operation.

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

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.

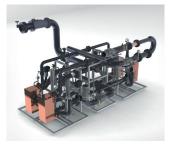


Pre-wired and ready to connect

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.

TransShare

Heating distributor.

The flexible TransShare heating distributor with a fully welded design is mounted in a non-vibrating manner on a stand frame. Nominal pressures up to PN10 and maximum temperatures up to 110 °C can be achieved. In order to achieve lower return temperatures, the distributor can take the form of a three-chamber distributor with flow, mediumtemperature return and low-temperature return if necessary. The type of connection to the heat generator can be freely selected prior to production and is either on the left or right facing up. The heating distributor design can include a controller and an electric control panel. The DDC controller and all electrical field devices (drive and sensor) are then wired and ready to connect. Complete preassembly shortens installation times and minimises the amount of work involved. For cold applications below the dew point, we offer the TransShare cold distributor with the appropriate valves, double corrosion protection coating and cold insulation.

The system is designed and manufactured in line with the generally recognised codes of practice and is certified according to ISO 9001.

Application

- Direct or indirect connection to the heating network, power range up to PN40 / 300 °C
- Customised production according to the supplier's technical connection require-
- Number and type of heating circuits and domestic water heating systems pre-wired and ready to connect as required or according to customers' wishes, available on floor or wall mounting frame



Technical data TransShare 1E-2H-1IL		Power supply
Output		3010000 kW 1), 2)
Nominal pressure	PN	10 bar ²⁾
Maximum pressure	PS	3 / 5 / 10 bar
Test pressure	PT	5 / 8 / 15 bar
Min. differential pressure	$\Delta Pmin.$	0.1 bar ³⁾
Max. differential pressure	ΔPmax.	0.24.0 bar ²⁾
Operating temperature	TB	10070-55 °C ²⁾
Maximum temperature	TS	110 °C ²⁾
Connection dimension	DN	20-500
		50 % according to EnEV /
Thermal insulation		Specific heat loss coefficient
		BDS < 3.9 kWh/(a*K*kW 1), 3)
Electric supply connection		230 V AC / 50 Hz / 50 - 5000 W
Dimensions (H/W/D)		H 1710-4670 mm / W 1000-9000 mm /
		D 600-1500 mm
Weight		50 - 8000 kg ^{2), 3)}

1) Depends on the temperature program

²⁾ Depends on the valve and heat exchanger type

3) Without heat meter

Flow chart

TransShare 1E-2H-1IL



3D system visualisation TransShare 1E-2H-1IL



Subject to modifications

TransShare 1E-2H-1IL

TransShare

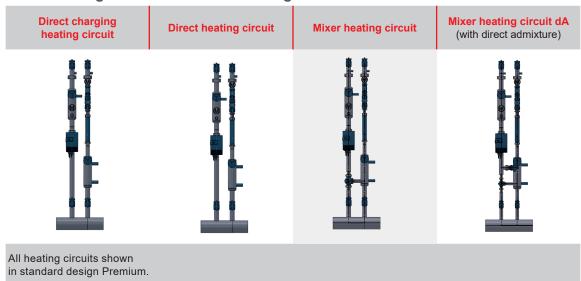
Configuration in the standard design.

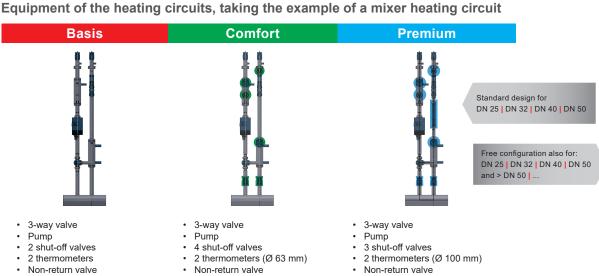


- The heating circuit distributor
 is a flow distributor and return collector as a pipe distributor, two-chamber distributor, Sinus distributor
 or
- A heating circuit is the heating armature group with pump and all necessary fittings as a direct heating circuit, mixer heating circuit or
- Heating circuit distributor + heating circuit = heating distributor:
 completely hydraulically and electrically assembled, delivered ex-works

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VERSIONS of the heating circuits in standard design





Strainer

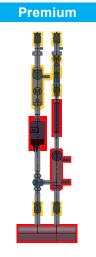
- Strainer
- 2 pressure gauges (Ø 63 mm) Filling and drain valve

- Strainer
- 2 pressure gauges (Ø 100 mm) Filling and drain valve
- Heat meter adapter
- Flow rate limiter

The planning after creation of the selected standard design

Standard

- Shut-off valves
- Thermometer
- Non-return valve
- Flow rate limiter
- Filling and drain valve
- Strainer



Planned (according to plant data)

- 3-way valve with drive
- Heat meter adapterThermal insulation*
- Insulation EPP 50 %
- Insulation EPP 100 %
- TopTronic® E, TopTronic® E-FW incl. sensor, wiring and control panel*
- Power supply
- · Distributor/collector
- * Not illustrated

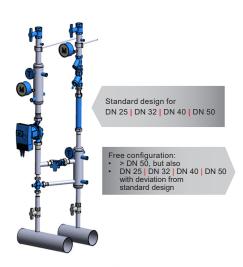
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TransTherm® heat transfer stations

Standard design

Heating circuit flow rate nominal diameter ΔT output

Heating circuit



Flow rate - nominal diameter

TransShare heating circuits

	Flow rate	HC		Max. output at						
	V	DN	ΔT 7 K	ΔT 10 K	ΔT 15 K	ΔT 20 K	ΔT 25 K			
	[m³/h]		[kW]	[kW]	[kW]	[kW]	[kW]			
E .	1.35	20	10.9	15.6	23.4	31.2	39.0			
tandard design Configuration	2.63	25	21.0	30.0	46.0	61.0	76.0			
ard c	5.09	32	41.0	59.0	88.0	118.0	147.0			
Standard Configu	6.83	40	55.0	79.0	118.0	158.0	197.0			
St	10.92	50	88.0	126.0	189.0	252.0	316.0			
	18.17	65	147.0	210.0	315.0	420.0	525.0			
	25.02	80	202.0	289.0	434.0	578.0	723.0			
/ red	42.16	100	341.0	487.0	731.0	975.0	1218.0			
Freely configured	63.75	125	516.0	737.0	1105.0	1474.0	1842.0			
Con	93.28	150	755.0	1078.0	1618.0	2157.0	2696.0			
	153.74	200	1244.0	1777.0	2666.0	3555.0	4443.0			
	249.24	250	2017.0	2811.0	4322.0	5763.0	7203.0			

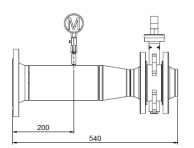
Flow rate nominal diameter ΔT output at max. 1.3 m/s

Standard design

Power supply (direct supply heat generator)

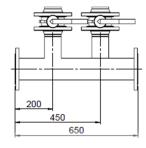
■ Basis (side)





■ Basic (top)





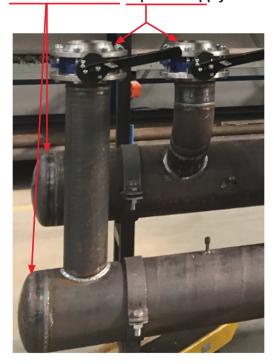
26

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Standard design

Distributor / collector / supply flow rate nominal diameter ΔT output

Distributor/collector/power supply



Flow rate – nominal diameter

TransShare heating circuit distributor

	Flow rate	Distributor	Max. output at						
	V	DN	ΔT 15 K	ΔT 20 K	ΔT 25 K	ΔT 30 K	ΔT 40 K		
	[m³/h]		[kW]	[kW]	[kW]	[kW]	[kW]		
	1.49	25	25.8	34.5	43.1	51.7	68.9		
un c	2.54	32	44.0	58.7	73.4	88.1	117.5		
Standard design Configuration	3.41	40	59.1	78.8	98.6	118.3	157.7		
ard c	5.46	50	94.7	126.2	157.8	189.4	252.5		
and	9.08	65	157.5	209.9	262.4	314.9	419.9		
80	12.51	80	216.9	289.2	361.6	433.9	578.5		
	21.08	100	365.5	487.4	609.2	731.1	974.8		
	31.88	125	552.8	737.1	921.4	1105.7	1474.2		
	46.64	150	8.808	1078.4	1348.0	1617.6	2156.8		
y red	78.37	200	1359.0	1812.0	2265.0	2718.0	3624.0		
Freely configured	124.62	250	2161.0	2881.4	3601.7	4322.1	5762.8		
Con	176.27	300	3056.7	4075.6	5094.5	6113.4	8151.2		
	214.21	350	3714.6	4952.8	6191.0	7429.2	9905.7		
	277.82	400	4817.7	6423.6	8029.5	9635.4	12847.2		

Flow rate nominal diameter ΔT output at max. 0.65 m/s

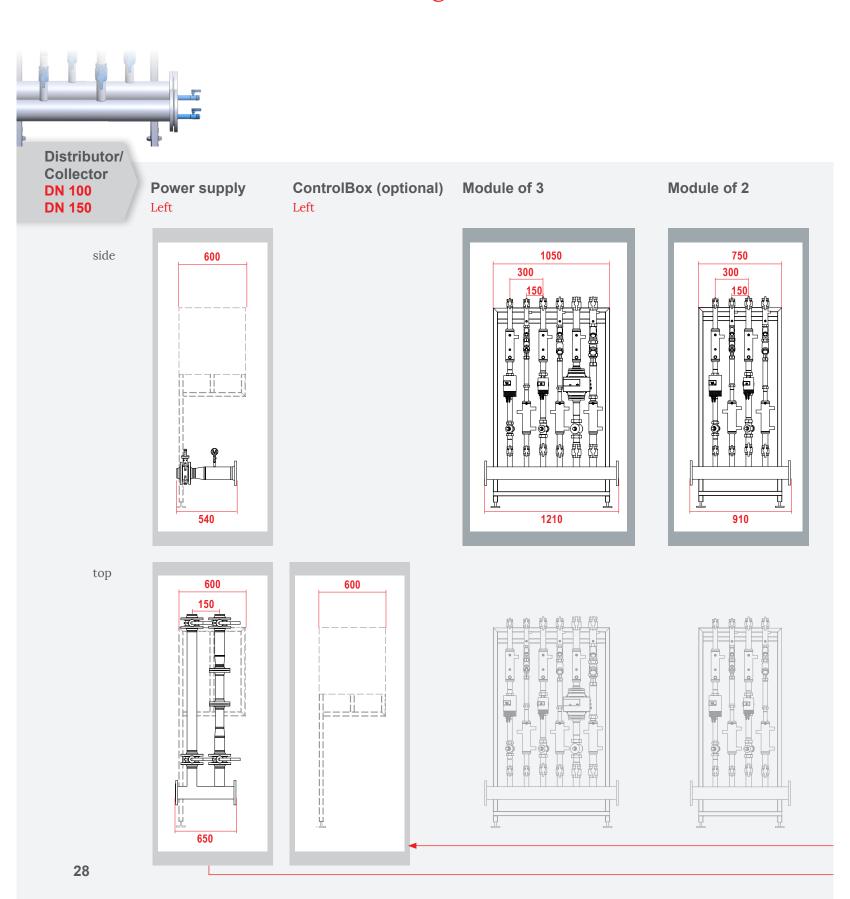
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TransShare

Dimensions in the standard design.

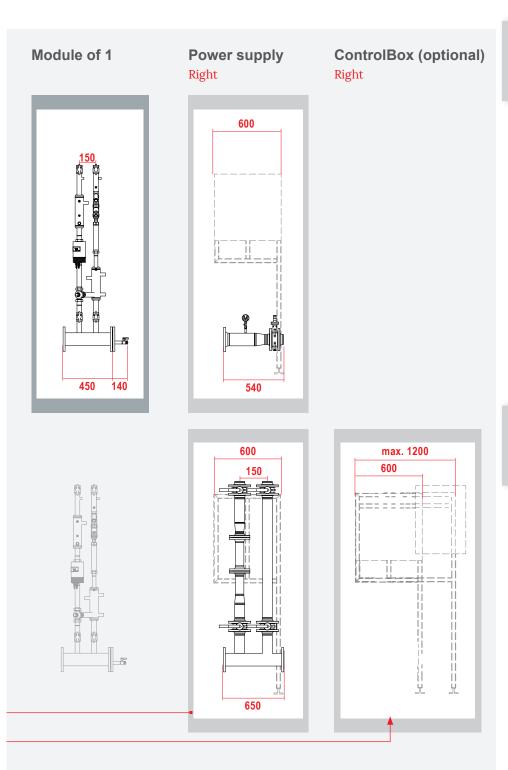


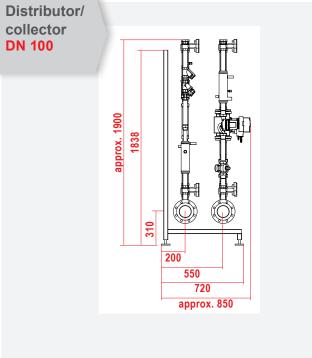
TransTherm_Factbook_2024-02_en.indd 28 06.02.2024 08:39:00

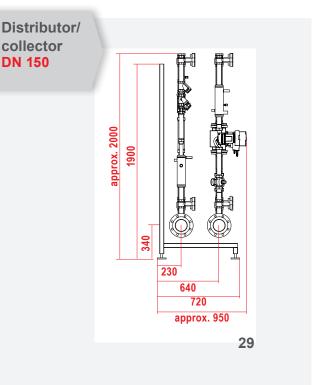
The modules are supplied pre-wired.

collector

DN 150







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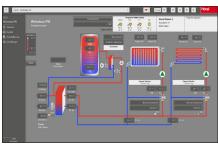
TopTronic® E system controller

For heat transfer stations and entire heating networks.



TopTronic® E control module for the district heating station

TopTronic® E room control module for high levels of convenience



Clear system visualisation on the screen of the HovalSupervisor cloud

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.

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.

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.



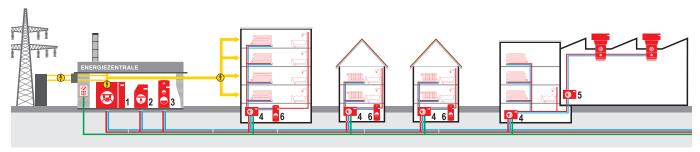


remote control on the move via HovalConnect and HovalSupervisor cloud

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 PowerBloc combined heat and power plant (1), UltraGas® heat generator (2) and buffer storage tank (3), TransTherm® heat transfer stations (4), TransShare heating distributor (5) and calorifiers (6) – all connected by the TopTronic system controller.



System controller Hoval TopTronic®



Combined heat and power plant Hoval PowerBloc



Hoval UltraGas® condensing boiler



Hoval buffer storage tanks



TransTherm® heat transfer stations



Hoval TransShare heating distributor



Hoval calorifiers

Hoval quality. You can count on us.



Hoval is one of the leading international companies for heating and indoor climate solutions. Drawing on more than 75 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

Germany

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Austria

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Switzerland

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Your Hoval partner



