Hoval TransShare

for efficient energy distribution.

Straightforward Fast Precise

Factbook





Hoval

Hoval TransShare

The energy distributor sets new standards.

Standards make life easier.

The Europool pallet is a showcase example of this. Born out of an idea at the beginning of the 1960s, it has gone from strength to strength. Today, it facilitates the transport of goods of all kinds. At the latest since its appearance as a million-dollar question in a TV show in 2020, almost everyone knows it. Almost as universally applicable as the Europool pallet are the three new standard designs of the TransShare heat distributor that Hoval is introducing in 2021. Due to the standard design, the matching energy distributor is delivered to the construction site in only 3 weeks. The beginning of a success story?!





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Standard design for TransShare

Maximum standard with minimum configuration.



Heating circuits

Choice of number and design

A heating circuit is a heating armature group with pump and all necessary fittings.

Control

TopTronic® E or TopTronic® E-FW incl. sensor, wiring and control panel.

Thermal insulation

(not shown)

Application TransShare

Number of heating circuits ≥ 4

Flow rate heating circuit ≥ 3.4 m³/h

Thermal insulation 50% or 100% according

to EnEV

Electrical system Complete with control

panel and wiring

Supply / distributor / collector

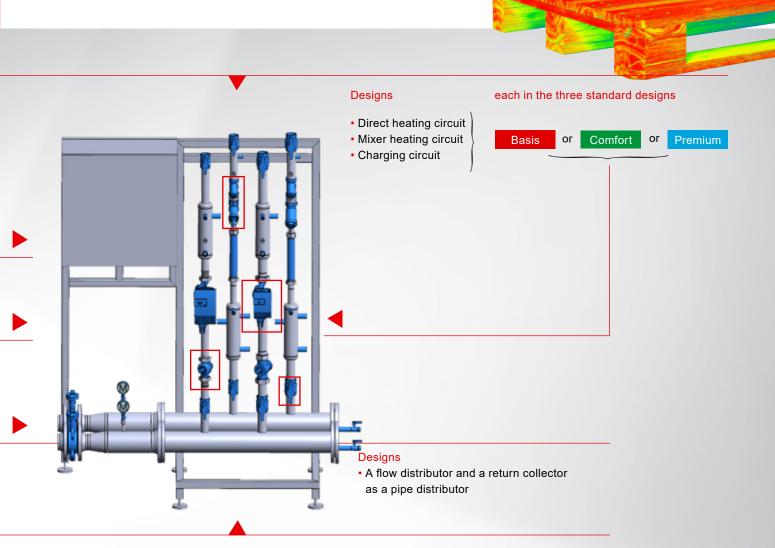
Frame

Each TransShare distributor consists of one manifold for flow and one manifold for return. Charging circuits and heating circuits are built onto these manifolds, which differ in their function and thus also in their equipment. Create your individual distributor. However, to simplify planning and speed up delivery, there are three standard designs to choose from. Basis, Comfort, Premium.

Hoval TransShare energy distributor

Ready-to-install unit delivered in 3 weeks.

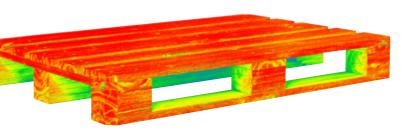
Ready-to-collect hydraulics | Electrically wired up | Incl. thermal insulation



Heating circuits

Designs and equipment.

For the TransShare energy distributor, different heating circuits can be built onto the heating circuit distributor. An individual energy distributor can be assembled depending on the selected standard design.



VERSIONS of the heating circuits in standard design

Direct charging heating circuit

Mixer heating circuit

Mixer heating circuit dB (with direct admixture)

All heating circuits shown in standard design Premium.

The STANDARD DESIGN determines the equipment of the heating circuits

Mixer heating circuit

Basis

- 1. Shut-off valve
- 2. Thermometer
- 3. Non-return valve
- 4. Strainer

Comfort

Basis

+

- 5. Thermometer (ø 63 mm)
- 6. Pressure gauge (ø 63 mm)
- 7. Filling and drainage

Premium



Standard design for DN 25 DN 32 DN 40 DN 50

Free configuration:

- larger than DN 50, but also
- DN 25 | DN 32 | DN 40 | DN 50 with deviation from standard design

Basis

+

- 5. Thermometer (ø 100 mm)
- 6. Pressure gauge (ø 100 mm)
- 7. Filling and drainage
- 8. Heat meter adapter
- 9. Flow control valve

The PLANNING AFTER CREATION of the selected standard design

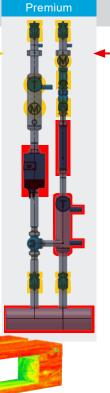
Contraction to the contraction of the contraction o

Standard

- · Shut-off valve
- Thermometer
- Non-return valve
- Strainer
- · Flow control valve
- Filling and drainage

Planned (according to system data)

- · Circulating pump
- Control valve
 Drive for control valves
- · Heat meter
- Thermal insulation*
 - Insulation EPP 50%
 - Insulation EPP 100%
- TopTronic® E, TopTronic® E-FW incl. sensor, wiring and control panel *
- Supply *
- · Distributor/collector
- * Not illustrated



Overview

The Excel table contains all details.

Excel table with the complete overview

Hydraulic structure equipment for one tab each for Basis - Comfort - Premium

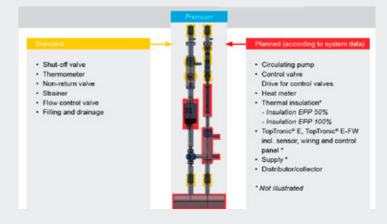
VERSIONS of the heating circuits

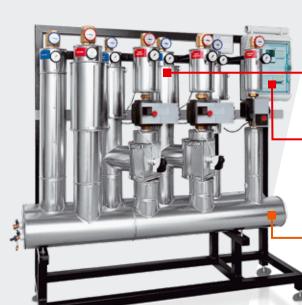


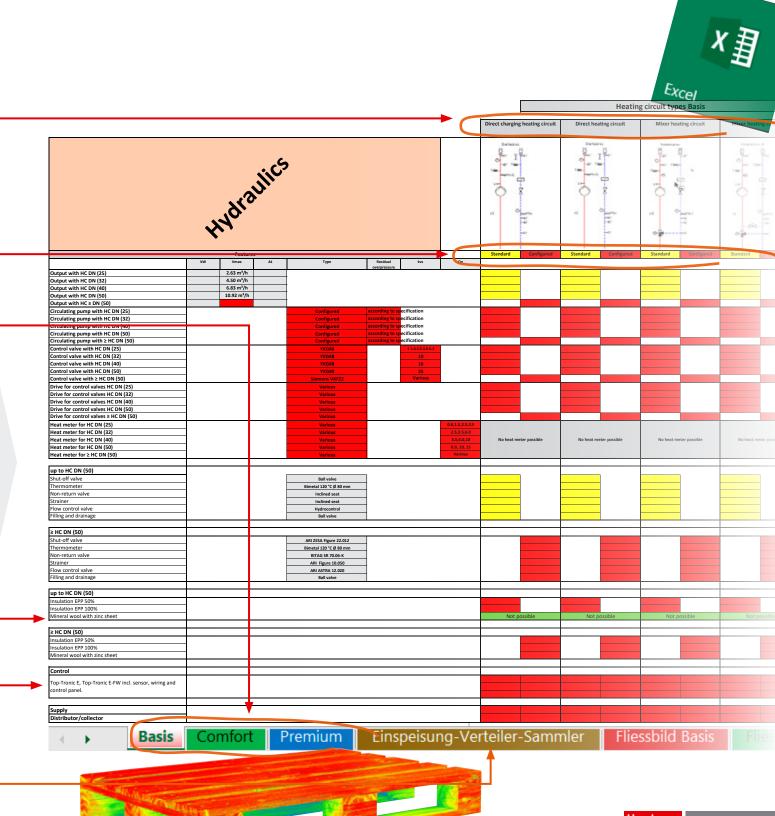
The STANDARD DESIGN



The PLANNING of the selected standard design







Energy distribution in the system Efficient and modular.

Energy efficiency

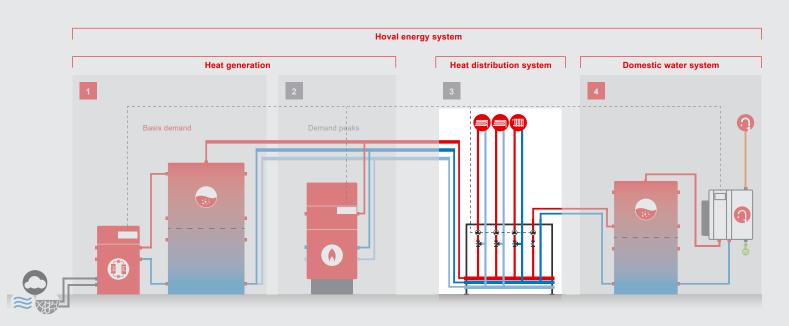
According to the Energy Efficiency Directive 2012/27/EU[1], energy efficiency is the ratio of yield (useful energy) of output, services, goods or energy to energy input (final energy). Energy efficiency is thus understood as the more rational use of energy.

Optimised processes

Optimised processes minimise quantitative and qualitative losses that occur during the conversion, transport and storage of energy. The aim of the optimisation is to achieve a given (energetic) benefit with a decreasing primary or final energy input (purchase).

Hoval energy systems

These were made up of individual modules, each of which performs a specific task. The standardised TopTronic® E control serves as the basis for virtually any combination of modules. It ensures that all modules work together optimally in the overall system. Thus, the system is more efficient than individual modules.



Standard also for the distributor

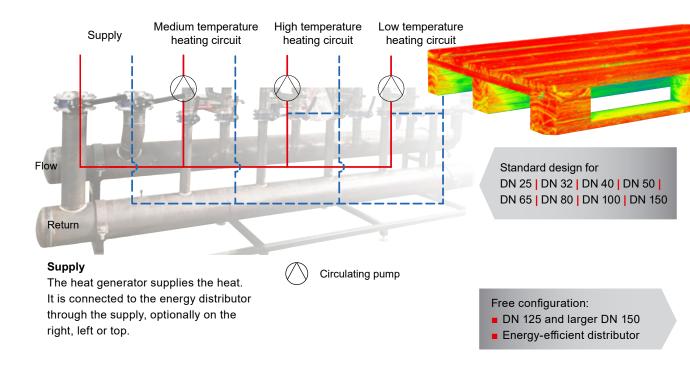
Supplying, distributing and collecting.

Classic heating circuit distributor

Pipe distributor with flow and return.

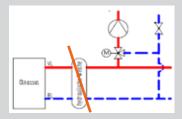
Advantage: thermal separation

It is the connection to the heating circuits

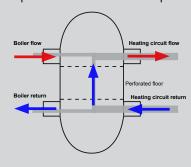


Hydraulic switch

Systems with condensing boilers/boilers without minimum flow rate or in a district heating system require a low return temperature (condensing effect). Since hydraulic switches raise the return temperature, they should not be installed.



Hydraulic switches are generally installed if several boilers are operating in the boiler circuit and/or on the secondary side one or more heating circuits have a higher flow rate than the boiler circuit. The switches decouple the primary boiler circuit (heat generator) and the secondary heating circuit (heat consumer). A hydraulic switch has at least four connections. Two connections are required for each integrated circuit (e.g. distribution circuit, boiler circuit, ...). Thus, the different circuits are connected to one another, but decoupled on the pressure side and thus independent of one another.



Choice of distributors

Construction and equipment individual.

Free configuration

In the case of free configuration, the equipment and the construction are customer-specific. This extends the delivery time beyond 3 weeks, and the costs are also higher.

Free configuration

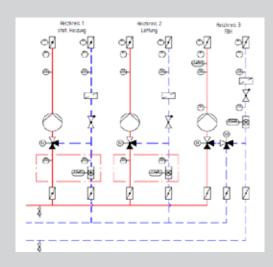
- DN 125 and larger DN 150
- DN 25 to DN 100, DN 150 with deviation from standard design,
 e.g. design as energy-efficient distributor

Energy-efficient distributor

The energy-efficient distributor is designed as a three-chamber distributor: flow and one return each for medium temperature and for low temperature. Accordingly, it is recommended for there to be a high or medium-temperature heating circuit and a low-temperature heating circuit. With the energy -efficient distributor, return temperatures are lower and this means higher efficiencies for condensing boilers.

The planning of energy-efficient distributor is always carried out in relation to the building, adapted to the corresponding output values, temperatures and flow rates.

Energy-efficient distributor (EED)

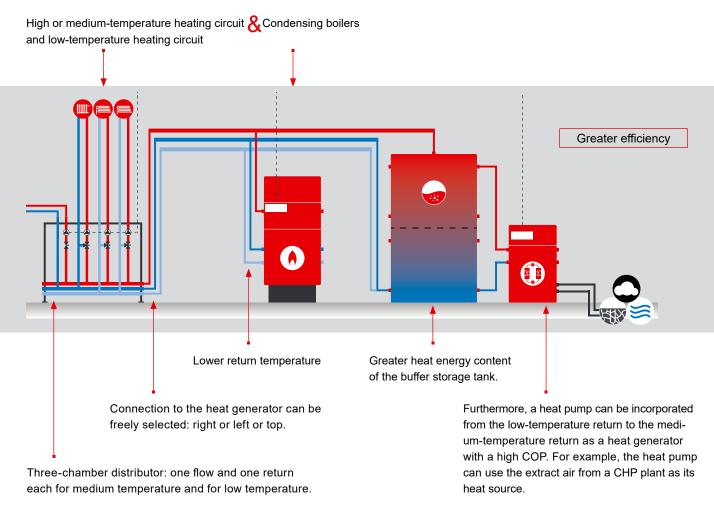


- Flow distributor
- Medium-temperature return
- Low-temperature return



Circulating pump

Greater efficiency with Hoval energy-efficient distributor



TransShare energy-efficient distributor with UltraGas® gas condensing boiler



The medium-temperature return is used in full or in part for supplying heat to the low-temperature heating circuit flow depending on the flow rate conditions.

Return use:

- The return of the static heating (HT-return) is the flow of the panel heating
- The flow rate from the return of the panel heating (LT-return) increases
- More condensate is produced and more heat from the flue gas enters the heating water



Hoval TransShareThe energy distributor.



TransShare energy distributor for transferring and distributing the heat from the heat generator to/among the heat consumers. The energy distributor consists of a flow distributor, a return collector and established heating circuits. It is ready wired-up and insulated. Three standard designs can be selected: Basis, Comfort, Premium.

Range of applications: for any requirements – for new buildings and renovations.

Straightforward

Simply assemble the right distributor using a clearly defined standard design.

Fast

Order, delivery and installation: TransShare stands for speed throughout.

Precise

A suitable standard design is chosen and minimally adapted based on the individual framework conditions of a project.



Straightforward

The standard design is clearly defined and simply explained. Nevertheless, the Basis, Comfort and Premium variants offer a wide range of design options for an energy distributor that meets your requirements. Standard design means individual composition of the distributor, heating circuits in different variants with defined equipment, but with dimensions according to project specifications.

The TransShare documents and tables contain all necessary information. Enter the most important key data of your plant in the order form and send us your enquiry. The process is underway and TransShare will soon be distributing the heat in your plant as well.

Fast

The defined selection and ordering process with the associated documents and responsible persons is tightly organised. On the basis of the standard design, the order is processed accordingly quickly, without enquiries and extra cycles. The finished modules will be delivered to your desired address 3 weeks after the order is placed. The controller and electrical field devices (drives, sensors and actuators) are then wired and ready to connect. Complete preassembly minimises the amount of work involved in installation, which can proceed quickly.

Precise

The standard design, which guarantees fast delivery, defines the dimensions of the distributor to suit your plant in the second step. The system is designed and manufactured in line with the generally recognised codes of practice and is certified according to ISO 9001.

To ensure that the distributor precisely meets your requirements, you decide on the number, type and standard design of the heating circuits and the position of the feed. The dimensions can be estimated right from when the structure is determined, even if the distributor is supplied with or without an electric control panel incl. control; TopTronic® E or TopTronic® E-FW are available for selection. All that remains is to select the insulation.

Free configuration

for distributor/collector

- DN 125 and larger DN 150
- DN 25 to DN 100, DN 150 with deviation from standard design

for heating circuits

- > DN 50 or
- DN 25 to DN 50 with deviation from standard design

Designs for low-temperature application

TransShare is also available for low-temperature applications.

Ask your Hoval consultant.

More time for your core business Satisfied customers – with the Hoval ControlBox.

The Hoval ControlBox makes controlling the entire system solution child's play. Each ControlBox is an individually planned control panel in itself and ensures efficient electrical distribution to all units. Hoval offers a well thought-out service from day one: we provide you with all the necessary documentation for the smooth connection of the ControlBox in a complete package. In addition, we guarantee that the ControlBox control equipment reliably complies with the current EN standards (EN 61439 Parts 1 and 2).



Comprehensive

Benefit from the convenient service for the Hoval ControlBox from planning and delivery to commissioning of the system solution at your customers' premises.

Reliable

With the Hoval ControlBox, you are guaranteed to be on the safe side. All components of the system are designed for perfect compatibility. The CE declaration ensures compliance with all technical and legal requirements.

Elaborate

Enjoy the convenience of a perfectly coordinated system. The comprehensible and detailed documentation of the ControlBox saves time during planning and installation.

Comprehensive planning from a single supplier

With the Hoval ControlBox, the planning, delivery and commissioning of your system solution comes from a single source – conveniently and efficiently by Hoval. Through holistic planning, time-consuming interface clarifications are eliminated, technical misunderstandings are avoided and delivery is on time. This considerably reduces the planning and implementation time for the system solution. After initial commissioning, a readjustment is carried out if necessary to take into account possible changes in operating conditions.



Reliable by testing

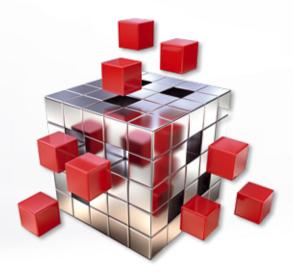
Security is an important factor in the success of your system solution. The ControlBox has a CE marking. This means that you can be sure that the Hoval ControlBox meets all the necessary technical and legal requirements. After internal testing and a function test, you will receive the ControlBox ready for installation. This ensures error-free commissioning and consequently the satisfaction of your customers. And for the time after that, the structured control panel layout allows the system to be retrofitted or expanded without any problems.



Ingenious and simple installation

The Hoval ControlBox includes clear and detailed documentation of the control panel with all necessary connections and terminals. This means that you can hand over important information such as circuit diagrams, cable lists and hydraulic diagrams to the electrician before the installation and concentrate on your core business. The simple construction of the control panel allows for easy wiring of the various components by the electrician afterwards. Thanks to ingenious and efficient planning, the clear documentation and the certification with the CE marking, you can expect no unexpected surprises during commissioning.





Simple connection with HovalConnect or Hoval Supervisor

The Hoval ControlBox creates the technical prerequisite for the online connection of all devices with the HovalConnect and HovalSupervisor operating platforms – simply via your web browser, without any software at all.

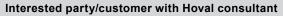
Order fulfilment

Tools and forms.











Fill in form (analogue/digital)
Enclose all relevant data for the plant, possibly hydraulic diagrams

Offer request

Send by e-mail



cc: Hoval consultant

angebot.hoval@yados.de

Fine planning according to



Quotation

With piping and installation diagram and description of services



cc: Hoval consultant



Orders



cc: Hoval consultant



auftrag.hoval@yados.de

Order confirmation

Order confirmation with technical specifications



Delivery

- Delivery to construction site or into the warehouse
- Product documentation including spare part list
- Commissioning by Hoval if required
- Maintenance by Hoval if required

Technical facts

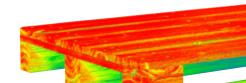
Selection and dimensions.

TransShare distributor

Hoval

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

	Flow rate V [m³/h]	Distributor DN	Max. output at ∆T 15K [kW]	∆T 20K [kW]	∆T 25K [kW]	∆T 30K [kW]	Δ Τ 40Κ [kW]
rd	1.49	25	25.8	34.5	43.1	51.7	68.9
	2.54	32	44.0	58.7	73.4	88.1	117.5
	3.41	40	59.1	78.8	98.6	118.3	157.7
Standard	5.46	50	94.7	126.2	157.8	189.4	252.5
Sta	9.08	65	157.5	209.9	262.4	314.9	419.9
	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	1 105.7	1 474.2
	46.64	150	808.8	1 078.4	1348.0	1 617.6	2 156.8
	78.37	200	1 359.0	1 812.0	2 265.0	2718.0	3 624.0
<u>o</u>	124.62	250	2 161.0	2881.4	3 601.7	4 322.1	5762.8
Configurable (planned)	176.27	300	3 056.7	4 075.6	5 094.5	6 113.4	8 151.2
	214.21	350	3714.6	4 952.8	6 191.0	7 429.2	9 905.7
	277.82	400	4 817.7	6 423.6	8 029.5	9 635.4	12 847.2
5							



Max. number of heating circuits in standard design

with supply - distributor - collector....

DN 100

Heating circuit	DN 25	DN 32	DN 40	DN 50
Max. number of	40.4	0.4	0 #	4 #
heating circuits	10 *	8 *	6 *	4 *

DN 150

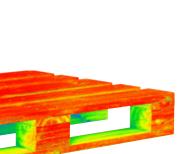
Heating circuit	DN 25	DN 32	DN 40	DN 50	
Max. number of	00 #	40.4	40 *	0.4	
heating circuits	20 *	16 *	12 *	8 *	

^{*} Depending on generator flow rate

TransShare heating circuits

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

	Flow rate	Distributor	Max. output at				
	V	DN	∆T 7K	∆T 10K	∆T 15K	∆T 20K	∆T 25K
	[m³/h]		[kW]	[kW]	[kW]	[kW]	[kW]
	1.35	20	10.9	15.6	23.4	31.2	39.0
	2.63	25	21.0	30.0	46.0	61.0	76.0
Standard	5.09	32	41.0	59.0	88.0	118.0	147.0
	6.83	40	55.0	79.0	118.0	158.0	197.0
	10.92	50	88.0	126.0	189.0	252.0	316.0
Configurable (planned)	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
	42.16	100	341.0	487.0	731.0	975.0	1 218.0
	63.75	125	516.0	737.0	1 105.0	1 474.0	1842.0
	93.28	150	755.0	1 078.0	1 618.0	2 157.0	2 696.0
	153.74	200	1 244.0	1 777.0	2 666.0	3 555.0	4 443.0
လ <u>ှ</u>	249.24	250	2 017.0	2 881.0	4 322.0	5 763.0	7 203.0





Dimensions

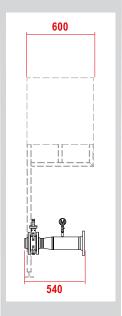
Standard design.



ControlBox (optional) Left

Module of 3

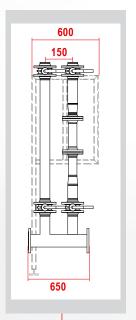
Module of 2



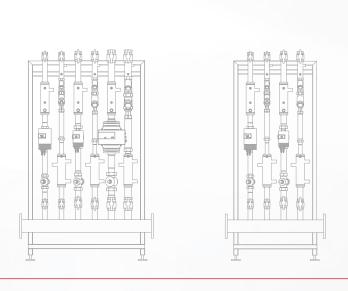
1050 300 II II 1210

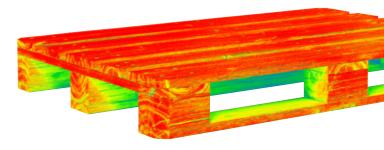
300 910

Top

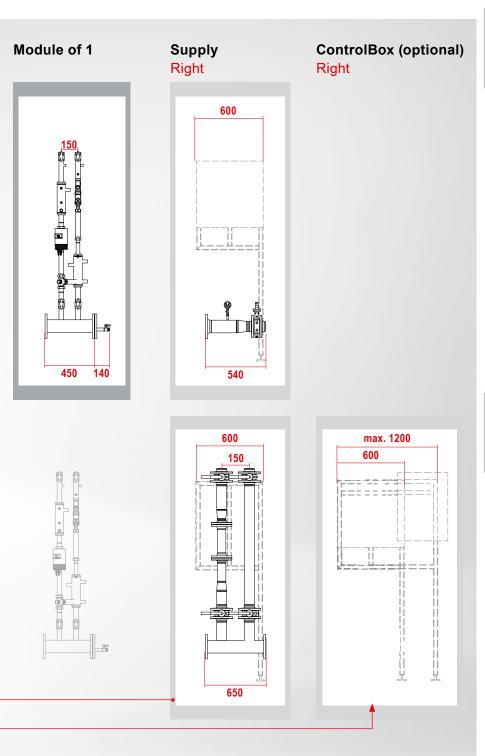


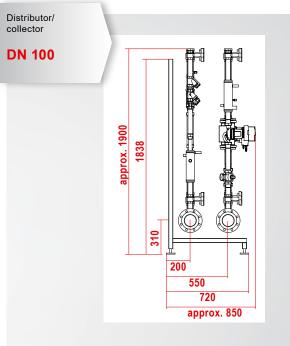
600

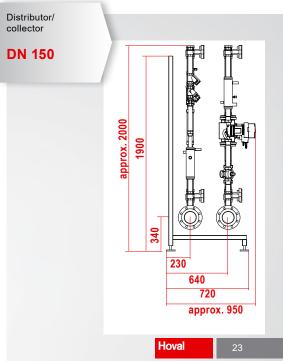




The modules are supplied pre-wired.





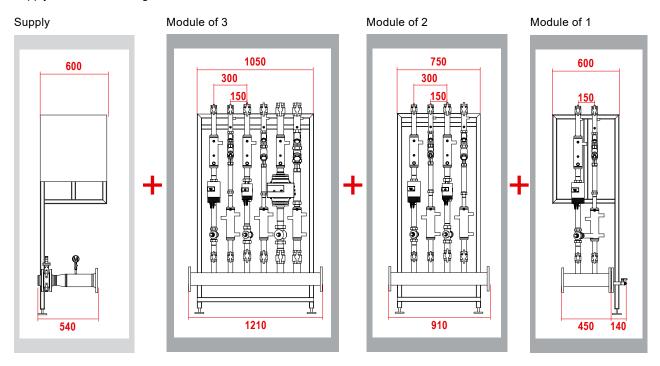


TransShare - module for module

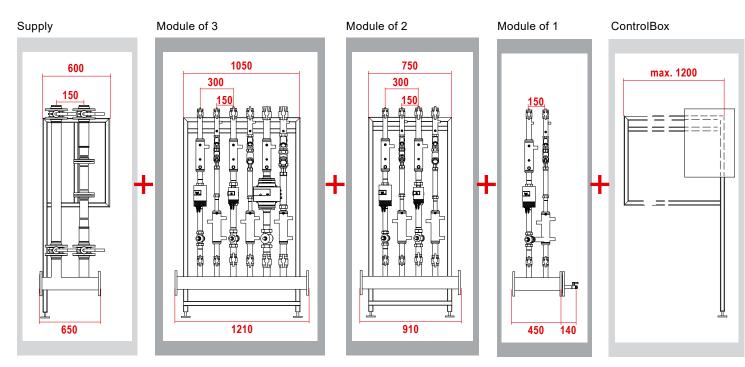
Examples of the construction.

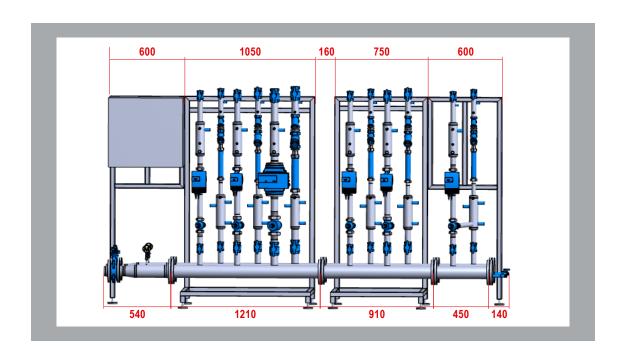
Example 1

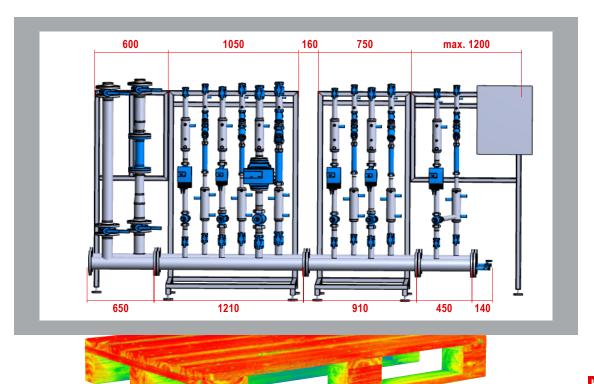
TransShare 1E-6H Supply side left, 6 heating circuits incl. control



Example 2 TransShare 1E-6H Supply top left, 6 heating circuits incl. control







Already in use Diverse applications.

Application areas of the TransShare energy distributor

The concept of the standard design offers many possibilities for the design/ equipment of the TransShare energy distributor. The areas of application for TransShare are correspondingly diverse. Whether hotel, apartment building or heating centre, the TransShare energy distributor is the right solution!











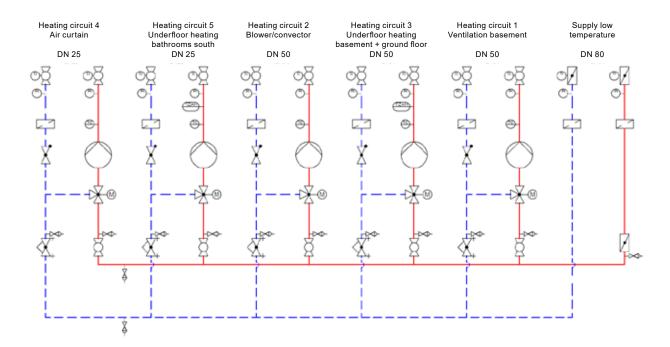


0 0 0 0 0 0



Use in a hotel

TransShare 1E-5H 202 kW Control TopTronic® E-FW



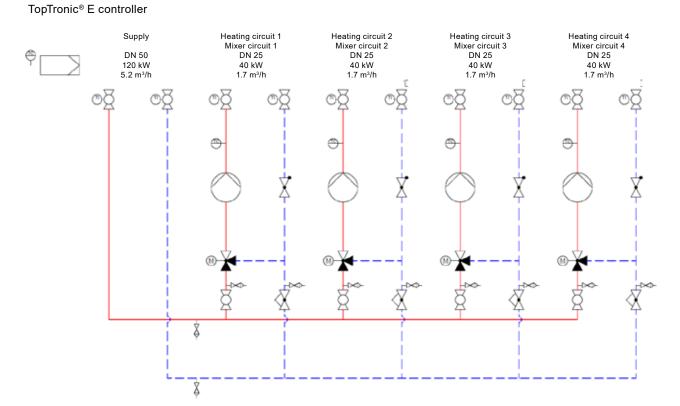


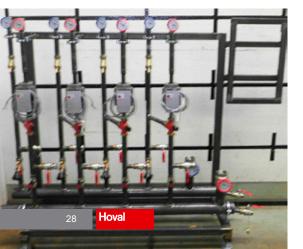




Use in multi-family home

TransShare 1E-4H 120 kW





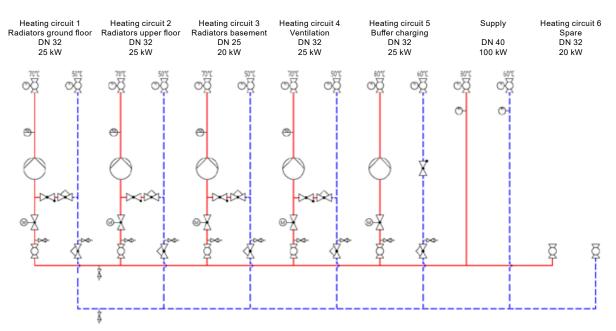




Use in an office building

TransShare 1E-6H 100 kW Control TopTronic® E-FW









A glance to the right and left The market in focus.

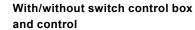


Hoval TransShare energy distributor

Ready-to-install unit delivered in 3 weeks.

Ready-to-collect hydraulics | Electrically wired up | Incl. thermal insulation

Delivery time 3 weeks





Charging circuits and heating circuits in three standard designs Basis, Comfort, Premium

Insulation can be selected 50% or 100%

Supply can be selected right or left

side or top

Efficient thermally insulated distributor and collector

2-chamber distributor



Hoval quality. You can count on us.

As a specialist in heating and climate technology, Hoval is your experienced partner for system solutions. For example, you can heat water with the sun's energy and your rooms with oil, gas, wood or a heat pump. Hoval ties together the various technologies and also integrates room ventilation into the system. You can be sure to save both energy and costs while protecting the environment.

Hoval is one of the leading international companies for indoor climate solutions. More than 75 years of experience continuously motivates us to design innovative system solutions. We export complete systems for heating, cooling and ventilation to more than 50 countries.

We take our responsibility for the environment seriously. Energy efficiency is at the heart of the heating and ventilation systems we design and develop.

Responsibility for energy and environment

Germany

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