Distributors for Floor Heating Systems

Rod-type distributor, Dimension 1

Data sheet for

853X

Issue 0210

- Rod-type distributor sets with shutoff- and thermostatic upper parts
- Rod-type distributor sets with thermostatic upper parts and top meter control inserts
- Single take-off sets (extension sets)
- Shut-off valves, straight and angle models
- Compression unions for copper, steel, and plastic pipes.

System Components

Rod-Type Distributor Sets with Shutoff- and Thermostatic Upper Parts, 8531

Intake distributors with shutoff upper parts, return distributors with thermostatic upper parts, intake and return distributors in brass, with staggered take-offs, with bleed and draining functions, intake and return distributors with one end cap each, 2 distributor holding devices for wall or cabinet mounting.

Distributor connection by 1 female thread, pipe connection G 3/4

Order Number	Branch-offs per Distributor	Order Number	Branch-offs per Distributor
1 8531 03	3	1 8531 10	10
1 8531 04	4	1 8531 11	11
1 8531 05	5	1 8531 12	12
1 8531 06	6	1 8531 13	13
1 8531 07	7	1 8531 14	14
1 8531 08	8	1 8531 15	15
1 8531 09	9	1 8531 16	16

Rod-Type Distributor Sets with Thermostatic Upper Parts and Flow Meter Control Inserts

Intake distributors with flow meter control inserts, return distributors with thermostatic upper parts. intake and return distributors in brass, with staggered take-offs, with bleed and draining functions, intake and return distributors with 1 end cap each, 2 distributor holding devices for wall or cabinet mounting.

Distributor connection by 1 female thread, pipe connection G 3/4

Order Number	Branch-offs per Distributor	Order Number	Branch-offs per Distributor
1 853X 03	3	1 853X 10	10
1 853X 04	4	1 853X 11	11
1 853X 05	5	1 853X 12	12
1 853X 06	6	1 853X 13	13
1 853X 07	7	1 853X 14	14
1 853X 08	8	1 853X 15	15
1 853X 09	9	1 853X 16	16

Rod-Type Distributors with Shutoff- and Thermostatic Upper Parts

Rod-Type Distributors with Thermostatic Upper Parts and Flow Meter Control Inserts

To be used as an extension set, distributors in brass with one branch per unit, including 2 couplings with 1 female thread, pipe connection G 3/4.

1 8531 93 Single take-off Set with Shutoff and Thermostatic Upper Parts

Intake distributor with shutoff upper part, return distributor with thermostatic

upper part.

1 8532 93 Single take-off Set with Thermostatic Upper Part and

Top Meter Regulating Insert

Intake distributors with top meter regulating inserts, return distributors with

thermostatic upper parts.

1 8537 03 1 Pair of Shut-off Valves, Straight Model

in brass, socket 1 female thread x short distributor connection,

to be shut off by means of HERZ multi-purpose key 1 6625 00.

1 8538 03 1 Pair of Shut-off Valves, Angle Model

in brass, staggered design thanks to distributor connections of different lengths,

socket 1 female thread x short/long distributor connection, to be shut off by means

of HERZ multi-purpose key 1 6625 00.

7940 HERZ Room temperature controller RTC

7990 DDC actuating drive

7790, 7791 HERZ Electronic room temperature controller RTR

3 F79X Wireless control system

7710, 7708 Actuating drives for 2 point or pulse control

Single Branch Sets

Shut-off Valves

Control

We reserve the right to make modifications in line with progress in engineering



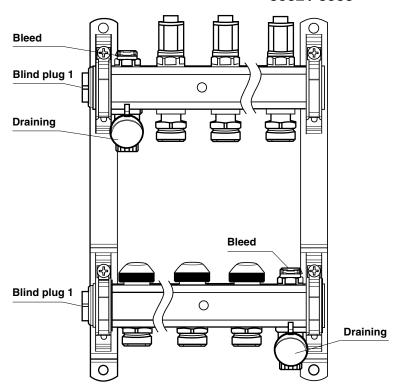
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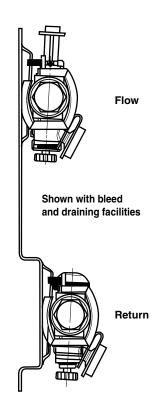


	astic composite pipe with aluminium core and HERZ press fittings for 10, 14, 16, and ested and registered.	PipeFix	
HERZ compression union for copper and thin-walled steel pipes. HERZ compression union with soft seal for copper and thin-walled steel pipes, particularly suitable for hard high-grade steel pipes and pipes with hard electroplated surfaces.			
6098	HERZ-compression union for PE-X, PB-, and plastic composite pipes.		
or dimensic	ons and order numbers refer to the HERZ catalogue.		
1 6206 01 1 6614 00 1 6625 00 1 8525 02	HERZ hose connection, brass, for draining and filling 5-mm presetting key for shutoff upper parts 1 6413 01. HERZ multi-purpose key for shutoff and bleed valves. Plug for distributor pipe connection, in brass	Accessories	
1 6819 32	Pre-setting key for flow meter		
3 F532 25	Pump connection system		
3 F532 30	Bypass set for overflow valve		
3 F798 00	Electric distribution panel for actuating signals		
1 6301 00 1 6403 31	Upper part for shutoff valves 1 8537 03, 1 8538 03. Thermostatic upper part for distributors	Spare Parts	
3 F900 01	0,25 I/min Flow meter control insert for distributor		
3 F900 02	6,0 I/min Flow meter control insert for distributor		
3 F900 03	Seat piece for flow meter		
1 6413 01	Shutoff upper part for distributors		
Min. operatir Max. operatir Ap for low-no Rod-type dis Rod-type dis The permissi and/or comp	ng temperature 120 °C ng temperature 0 °C ng pressure 10 bar Dise operation 0.2 bar. Atributor 8531: can be used up to Δp 0.4 bar in either flow direction. Atributor 8532: The top meter control insert must be installed in the flow. Able operating conditions (max. temperature and pressure) are dependent on the pipes are sion unions used. Atributor 8532: The top meter control insert must be installed in the flow. Able operating conditions (max. temperature and pressure) are dependent on the pipes are sion unions used.	Distributors	
	pipe connections, the following values are applicable if permitted by the pipe	Plastic Pipe	
manufacture Max operati	r: ng temperature 80°C	Connections	
Max. operati			
A higher ope	erating pressure is permitted only with the previous written consent of HERZ Armaturen.		
	HERZ compression unions for copper and steel pipes take into account the permissible and pressure ratings according to EN 1254-2: 1998, as shown in table 5.	Compression Unions	
HERZ rod-ty neating syste	pe distributors are used for the distribution of the individual heating circuits in floor ems. Each heating circuit can be controlled and shut off separately.	Field of Application	
The distribute	ors are mounted onto the wall or in a distributor cabinet on holding devices	Installation	
The distribut	ors are closed by a plug on one side.	End Caps	
Γhe distribut ⁄alves.	or intake features a 1 female thread for direct connection of threaded pipes or shutoff	Connection of Distributor Intake to Supply Pipe	
The distribut HERZ compr	or take-offs are equipped with G 3/4 male threads. Pipe connection is by means of ression unions for copper, thin-walled steel or plastic pipes.	Distributor Branch-off Pipe Connection	
HERZ completed and pla	ression unions provide absolutely tight and secure connection to copper, thin-walled astic pipes. During installation please note the instructions for installation provided by	Compression Unions	

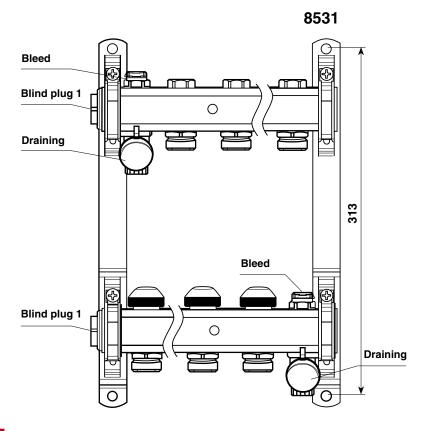
Shut-off Upper Parts Shutting off the **Heating Circuits** The shut-off upper parts are operated by means of a 5-mm Allen key (1 6614 00). The intake is shut off by turning clockwise up to the stop. **Thermostatic Upper Parts** Set the thermostat to the "min" position or shut off by means of hand wheel or protective cap for building work. **Flow Meter Control Inserts** 1 6819 32 key fits on the top of the flow meter and closes by turning clockwise. Any HERZ thermostat with remote control, components or the electronic control systems HERZ-RTC **Thermostatic Operation** (room temperature computers, DDC actuating drives) or HERZ RTR (room thermostats, thermal actuators) can be used for controlling the thermostatic upper parts. The thermostatic upper parts are supplied with a protective cap for building work which serves for protection and actuating during the building phase (pipe flushing). If, in exceptional cases no thermostat is installed use the HERZ hand wheel for operation. Flow meter control inserts are always installed in the flow. The flow rate can be set directly Flow Meter (I/sec scale). Adjustment: for each distributor set is one pre-setting key 1 6819 32 included. Setting For adjustment, fit the key to the flow meter and turn until the desired flow rate is achieved. 8532 8533 400 190 350 170 Durchfluss [l/h] 120 130 90 10 20 Durchfluss [l/h] 300 250 200 150 70 100 50 50 6 3 1 Flowmeter-Anzeige [I/min] Flowmeter-Anzeige [I/min] Both, the intake and return distributors feature a draining valve with an G=3/4 connection thread Draining for a hose connection element (1 6206 01). The hand wheel is operated with finger strength to open and close the drain valve. Both, the intake and return distributors feature a bleed valve which is actuated by means of the HERZ Bleeding multi-purpose key 1 6625 00. **Distributor Cabinets** 8569 A separate standard sheet is available for HERZ distributor cabinets. 8570 8571 8572 1 **851X** 93 Cast modul distributor Other HERZ distributor models Rod-type distributor 1 **8531** 22 ... 32 8574 Pre-assembled distributor system 8575 Pre-assembled distributor system 8576 Pre-assembled distributor system 3 **F532** Pre-assembled contol station KlimEasy Simple 3 **F533** Pre-assembled contol station KlimEasy Combi 8100 Floor heating control set and FloorFix

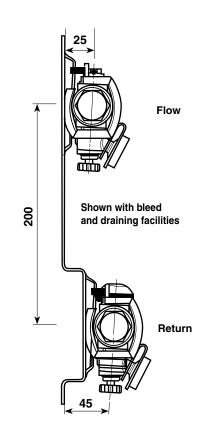
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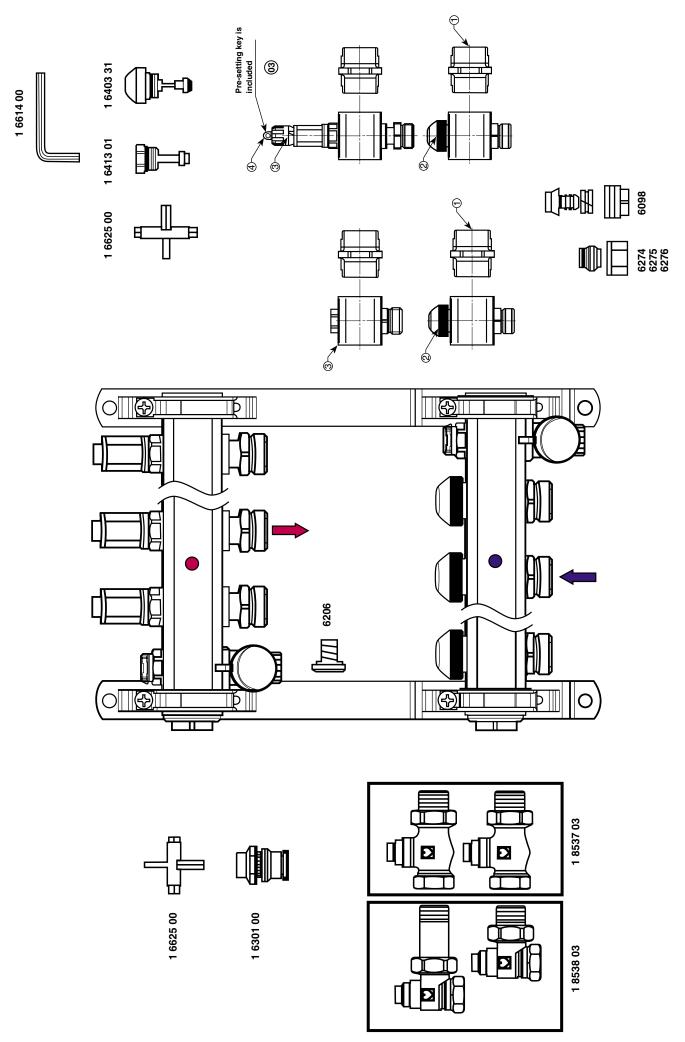




Distributor - outlets	Length L	Length L Distributor - outlets	
1 853X 03	221	1 853X 10	571
1 853X 04	271	1 853X 11	621
1 853X 05	321	1 853X 12	671
1 853X 06	371	1 853X 13	721
1 853X 07	421	1 853X 14	771
1 853X 08	471	1 853X 15	821
1 853X 09	521	1 853X 16	871





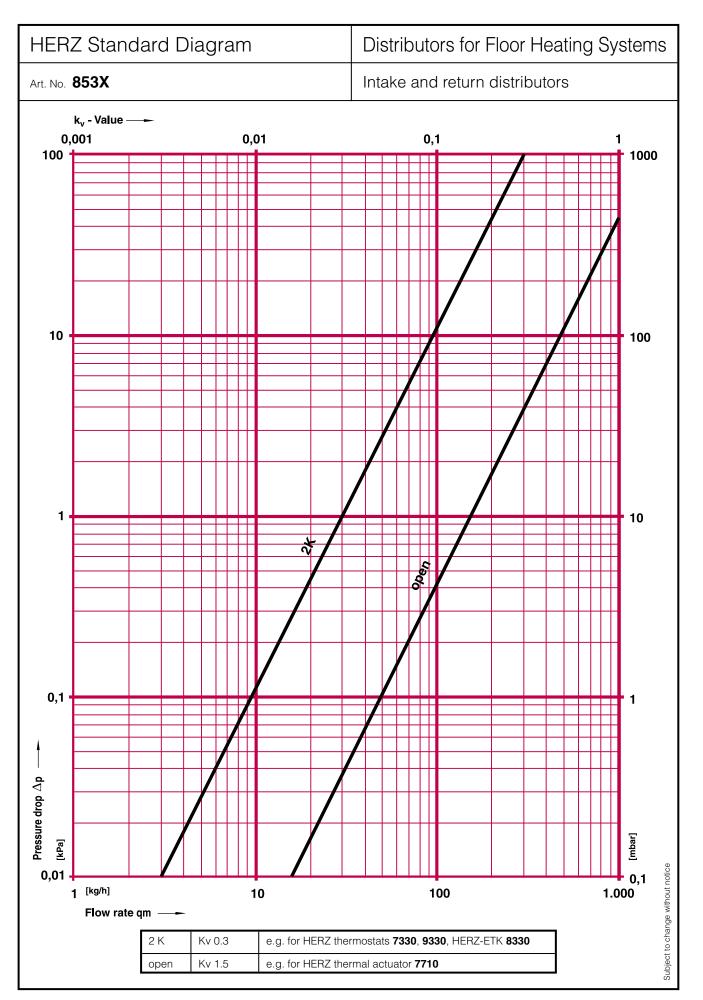


HERZ Standard Diagram		D	Distributors for Floor Heating Systems			
Art. No. 1 8531 03 1 8531 1 3 - 10		3 - 16 Outlets				
k _v - Value 0,001	0,01		0,1			I ► 1000
100						- 1000
1	Revolutions 0,75 0,5			ope Flow + Return - D full opens	sistributor ed	- 10
0,1	0,25			Revolutions 0,25 0,5 0,75 1 1,25 1,5	0,107 0,198 0,247 0,342 0,476 0,627	• 1
Pressure drop ∆p ———				1,75 2 2,25 2,5 2,75 3 full opened	0,775 0,94 1,057 1,196 1,335 1,449	[mbar]
ō ≚ 0,01 1 ^[kg/h] Flow rat	10 e qm —		100			Гараш - 0,1 000

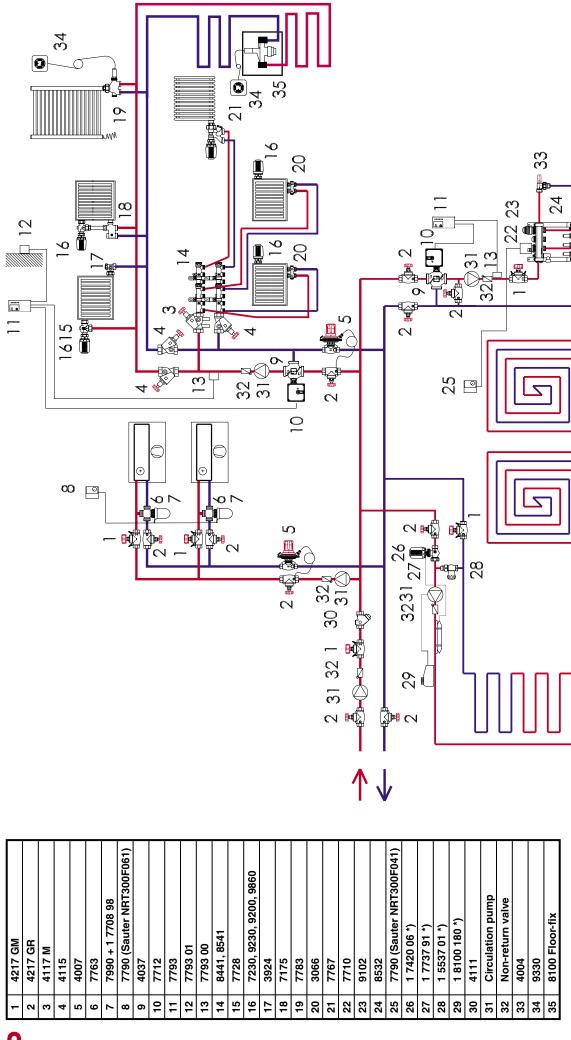


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*) Set 8100

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