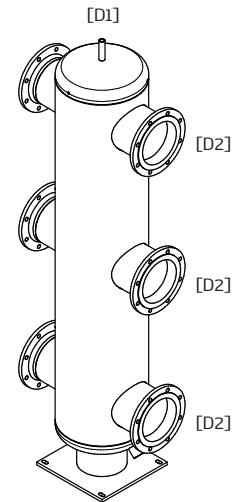


Technical data sheet MultiFlow Expert

Components of the MultiFlow Expert

- hydraulic separator
- connecting bends
- multiple compact manifolds

Manufacturer certification	
Description	MultiFlow Expert
Design pressure	6 bar
Design temperature	0/+110 °C
Design procedure	Article 4, Paragraph 3
Manufacturer	Sinusverteiler GmbH Dieselweg 2 48493 Wetrtringen/Germany
We declare under our sole responsibility that the pressure equipment meets the requirements of Directive 2014/68/EU. This product was manufactured in accordance with the principles of GEP "Good Engineering Practice".	



Hydraulic separator for multiple temperature zones

Vertical cylindrical chamber made from welded tubing P235 with welded-in top and bottom. Nozzles for heat consumer and heat generator made from welded steel tubing with weld-neck flanges PN 6/PN 16 customised according to your specifications. 2" threaded nozzle for sludge removal, 1/2" bushings for temperature sensor and ventilation; supporting foot with bores for fixing to the floor. The hydraulic separator is 100% tightness tested and primed before leaving the factory.

Size	Flow rate	Largest nozzle
[DN] 1	[m³/h]	[DN] 2
150	12	65
200	28	100
250	40	125
300	65	150
350	85	200
400	125	200
500	215	300
600	300	400
700	400	400

Connecting bend

90° connecting bend parts that serve as a connection between the hydraulic separator and the compact manifold.

Compact manifold

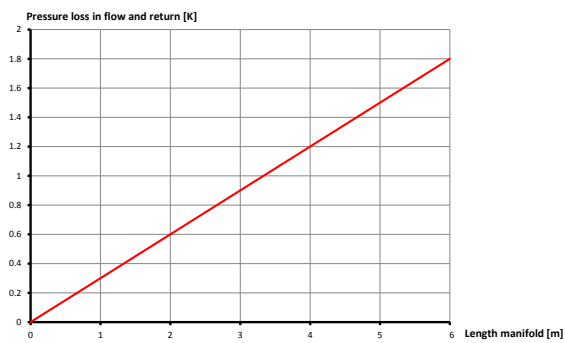
Combined flow and return manifold consisting of rectangular tubing with chambers made of black sheet steel S235 arranged adjacent to one another and separated by sinusoidal parting wall. Nozzles configured as threaded and/or flanged nozzles PN 6/PN 16. All nozzles are aligned to the height of the shut-off valves, and can be at the top, side or underneath. 3/4" drainage bushings for flow and return chambers are provided as standard. The compact manifold is 100% tightness tested and primed before leaving the factory.

Type	Power at Δt 20 K	Heating water flow rate	Water capacity	Heat transfer at 70 °/50 °C		Return flow increase	Main body weight	Largest nozzle/boiler connection	Nozzle spacing	Wall thickness
[WxH]	[kW]	[m ³ /h]	[litres/running metre]	[kW/running metre]	[%]	[K/running metre]	[kg/running metre]	[DN]	[mm]	[mm]
120/80	150	6.5	8.0	2.7	1.8	0.3	13.8	50/65	200/250/variable	4
160/80	250	10.8	10.9	3.7	1.5	0.3	16.4	65/80	250/300/variable	4
180/110	400	17.2	17.6	4.2	1.0	0.2	20.5	80/100	250/300/350/variable	4
200/120	600	25.8	21.5	4.3	1.0	0.2	22.6	100/125	250/300/350/variable	4
280/180	1250	53.8	45.0	7.8	0.6	0.1	46.8	125/150	300/350/variable	6
300/200	1600	68.8	54.1	8.3	0.5	0.1	51.3	125/150	300/350/variable	6
400/200	2100	90.0	72.9	10.6	0.5	0.1	61.2	150	variable	6
450/250	3500	150.0	101.5	11.5	0.3	<0.1	95.4	200	variable	8
500/300	4500	194.0	137.3	13.6	0.3	<0.1	113.0	250	variable	8
600/400	6200	267.0	216.5	13.1	0.2	<0.1	168.7	300	variable	12
700/500	9100	391.0	321.0	14.6	0.2	<0.1	261.9	300	variable	12

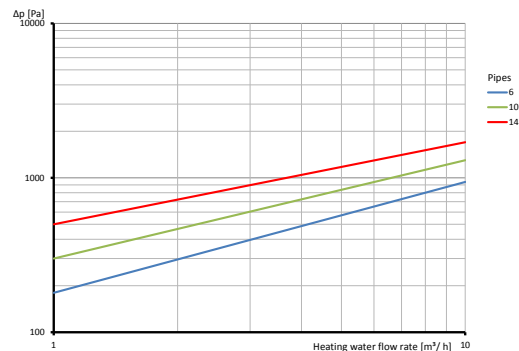
Heat transfer and pressure loss between flow and return chambers

Heat transfer diagram showing the return temperature increase in Kelvin [K] per running metre of manifold length and pressure loss diagram showing pressure loss dependent on the water throughput for a given number of nozzles.

Type 120/80

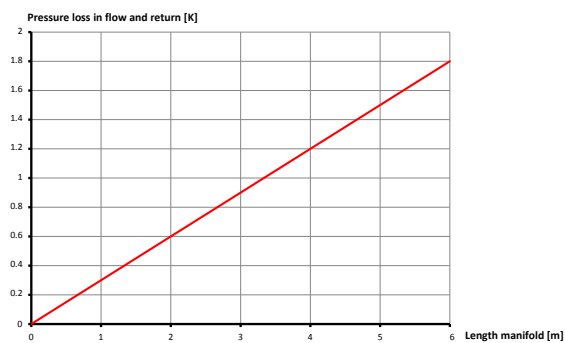


Heat transfer between flow and return chambers

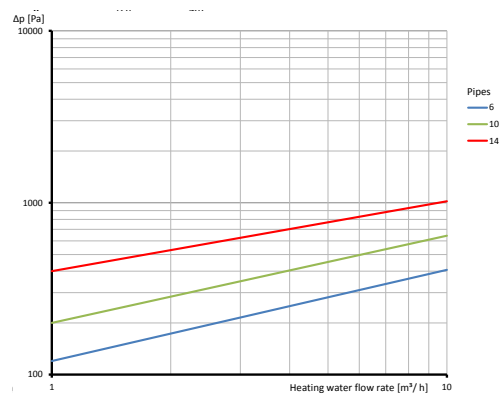


Pressure loss in flow and return

Type 160/80

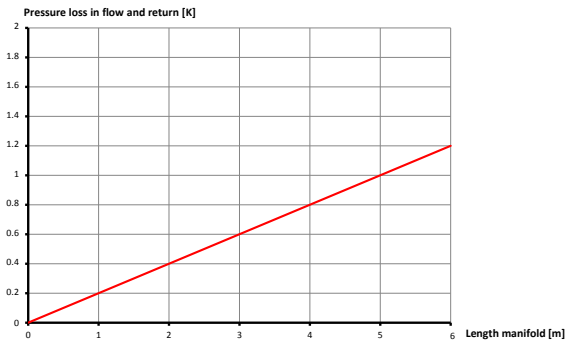


Heat transfer between flow and return chambers

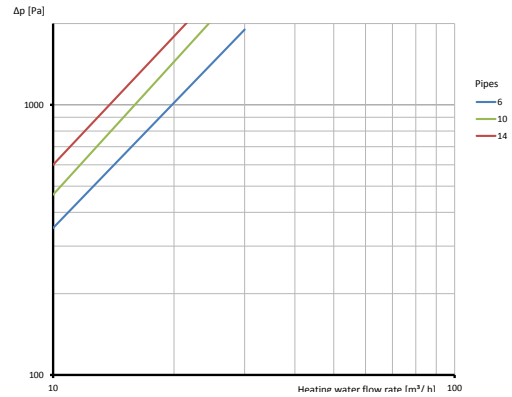


Pressure loss in flow and return

Type 180/110

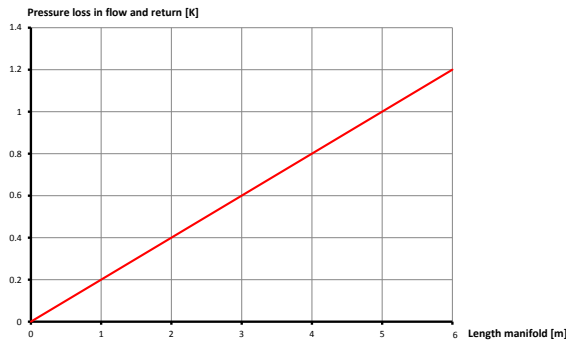


Heat transfer between flow and return chambers

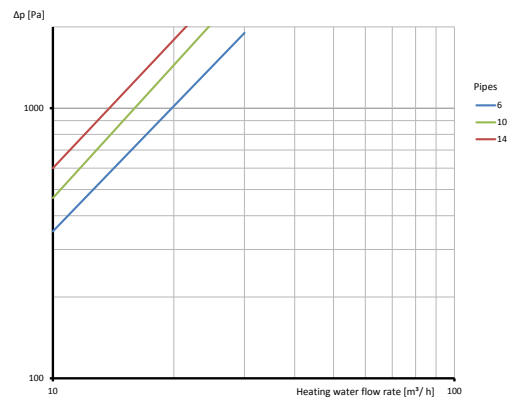


Pressure loss in flow and return

Type 200/120

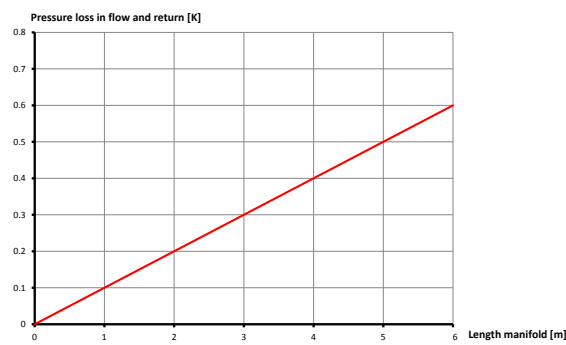


Heat transfer between flow and return chambers

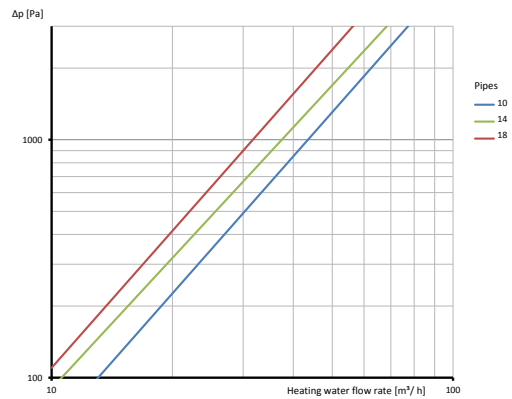


Pressure loss in flow and return

Type 280/180

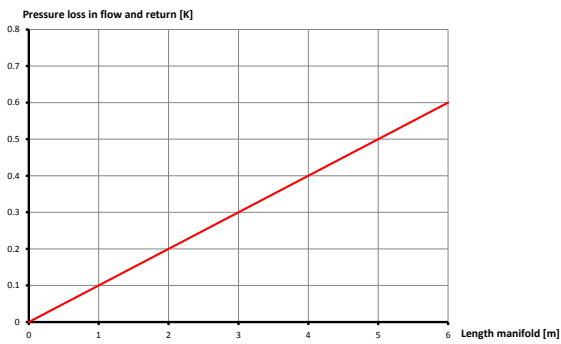


Heat transfer between flow and return chambers

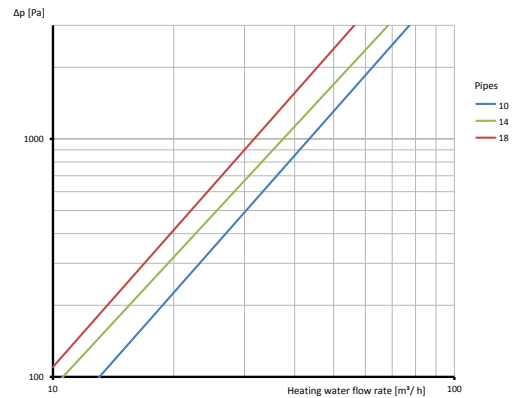


Pressure loss in flow and return

Type 300/200

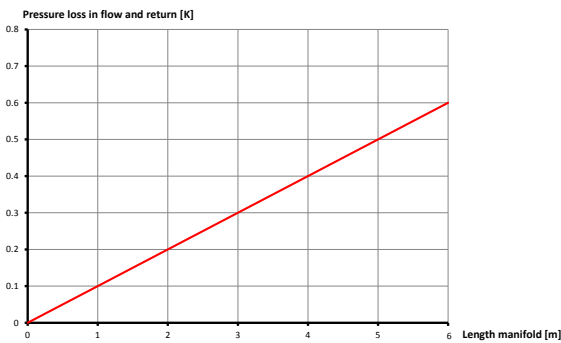


Heat transfer between flow and return chambers

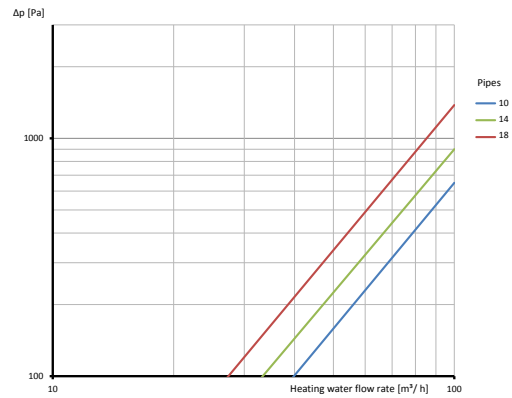


Pressure loss in flow and return

Type 400/200

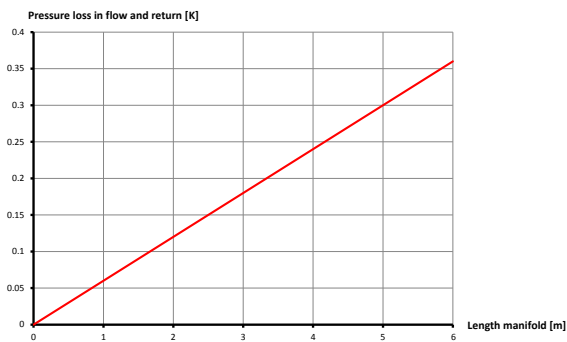


Heat transfer between flow and return chambers

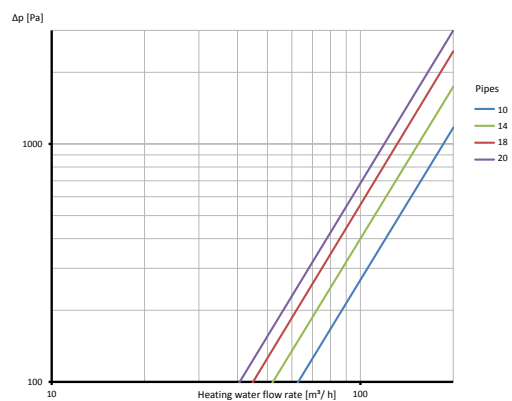


Pressure loss in flow and return

Type 450/250

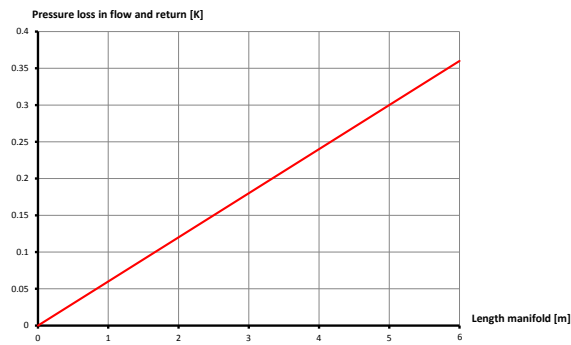


Heat transfer between flow and return chambers

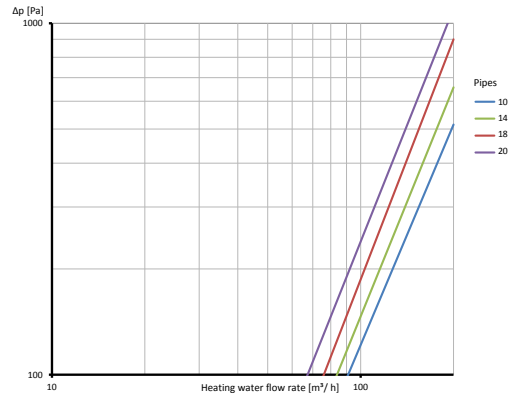


Pressure loss in flow and return

Type 500/300

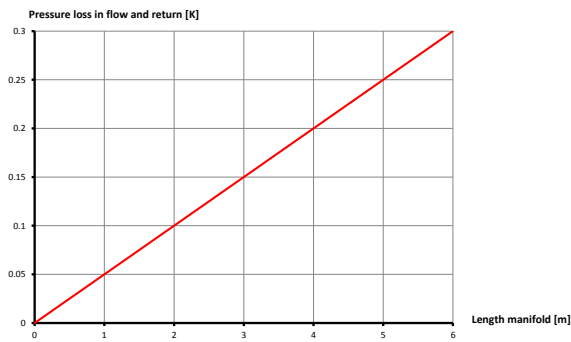


Heat transfer between flow and return chambers

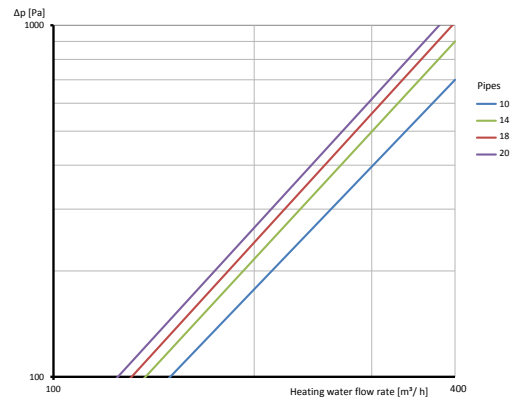


Pressure loss in flow and return

Type 600/400

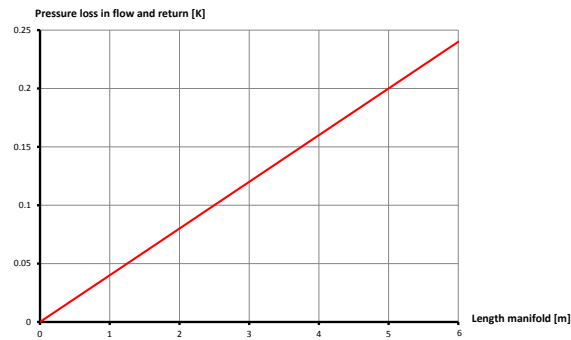


Heat transfer between flow and return chambers

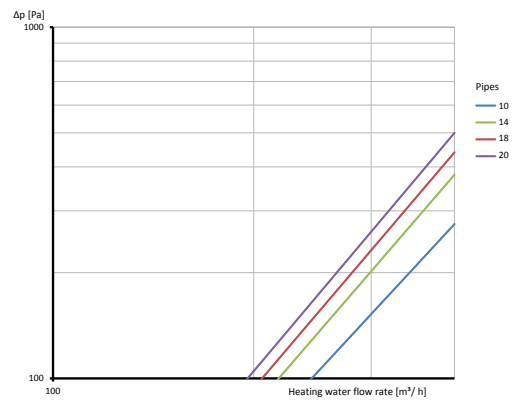


Pressure loss in flow and return

Type 700/500



Heat transfer between flow and return chambers



Pressure loss in flow and return