

Technical data

HydroFixx

Combined flow and return manifold with adjacent chambers separated by a sinusoidal partition wall, with horizontally welded-on subjacent Hydronic Junction. Manifold consists of S235 square profiles. Feeding from/to the heating boiler can be carried out either to the upper Sinus Compact Manifold or to the lower Hydronic Junction. Heating circuit connections provided as threaded and/or ANSI 150 lbs flanged connection, aligned at the height of shut-off devices. With facing downwards outgoing sediment trap with 1" sediment drain coupling. Sinus HydroFixx is factory pressure tested and primed.

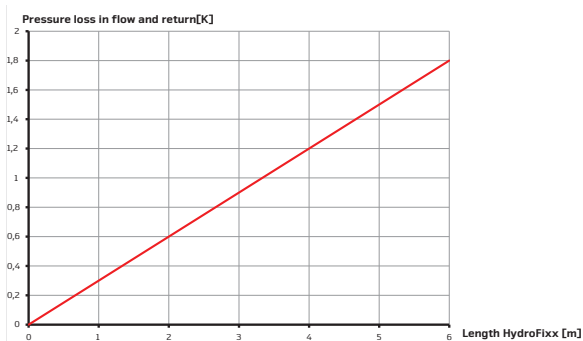
Contact certification	
Type	HydroFixx
Operating pressure	0/6 bar or 90 psi
Operating temperature	0/+110°C or 230°F
Contact	Sinus North America 321 Shoemaker St Kitchener, ON, N2E 3B3 CANADA

Type	Capacity at ΔT 20 K		Heating water flow rate		Water content manifold		Water content junction		Heat transfer at 70°/50° C			Return increase	Weight basic body		Max. connection size / boiler connection		Pipe distance (OC)		Wall thickness	
	[WxH]	[kW]	[MBH]	[m³/h]	[gpm]	[liter/rm]	[gal/rm]	[liter/rm]	[gal/rm]	[Kw]	[MBH]		[%]	[K/rm]	[kg/rm]	[lbs/rm]	[DN]	[in inch]	[mm]	[in inch]
160/160	250	853.0	10.8	47.5	10.9	2.9	11.5	3.0	3.7	12,6	1,5	0.3	26.2	57.8	65/80	2 ½"/3"	250/300/variable	9.8/11.8/variable	4	0.2
200/200	600	2,047.3	25.8	113.6	21.5	5.7	14.5	3.8	4.3	14,7	0,7	0.2	33.7	74.3	100/125	4"/6"	250/300/350/variable	9.8/11.8/13.8/variable	4	0.2
280/320	1,250	4,265.2	53.8	236.9	45.0	11.9	35.9	9.5	7.8	26,6	0,6	0.1	72.6	160.1	125/150	5"/6"	300/350/variable	11.8/13.8/variable	6	0.2
500/550	4,500	1,5354.6	194.0	854.2	137.3	36.3	117.1	30.9	13.6	46,4	0,3	0.1	174.8	385.4	250	10"	variable	variable	8	0.3

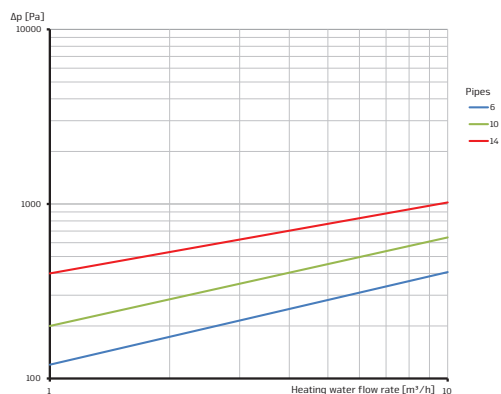
Heat transfer and pressure drop between flow and return chamber

Heat transfer diagrams illustrating the return temperature increase in Kelvin [K] per meter Manifold length and pressure loss diagrams illustrating the respective pressure drop depending on the water flow rate at given numbers of pipes.

Type 160/160

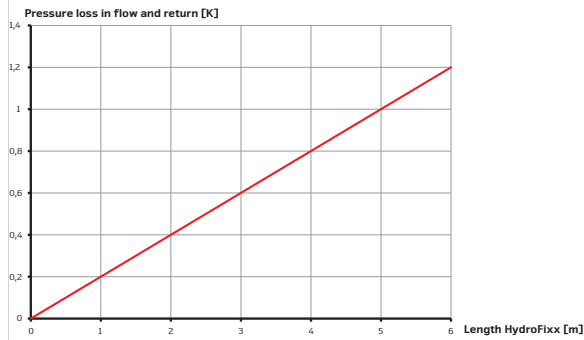


Heat transfer between flow and return

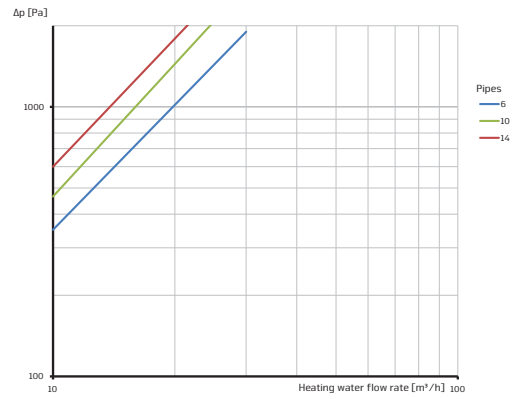


Pressure drop in flow and return

Type 200/200

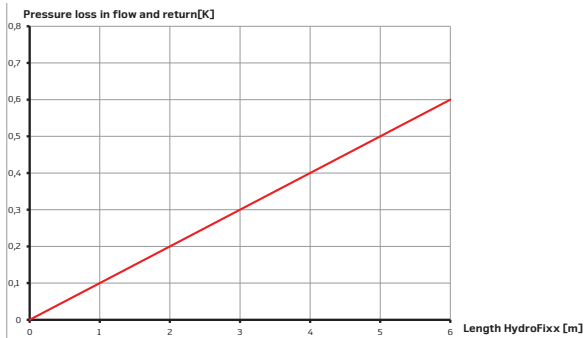


Heat transfer between flow and return

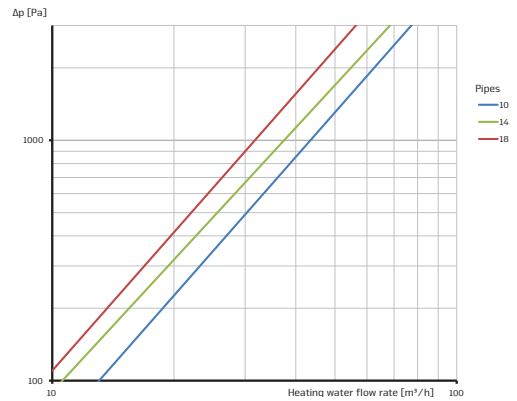


Pressure loss in flow and return

Type 280/320

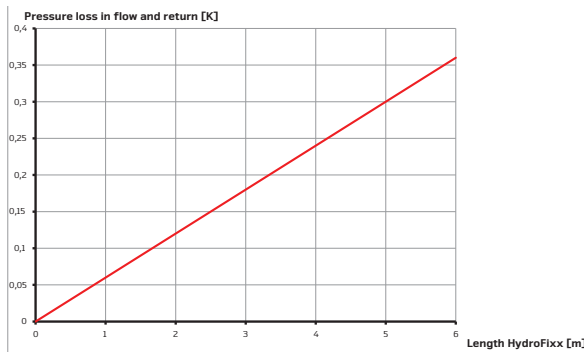


Heat transfer between flow and return

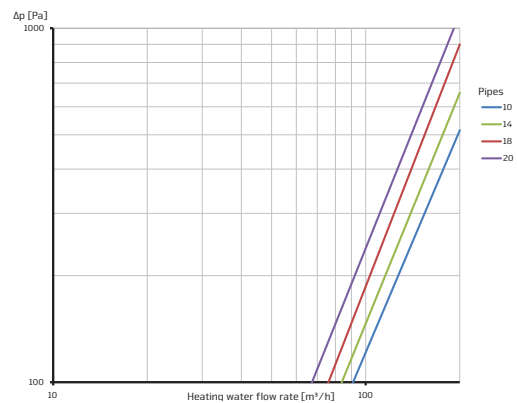


Pressure loss in flow and return

Type 500/550



Heat transfer between flow and return



Pressure loss in flow and return