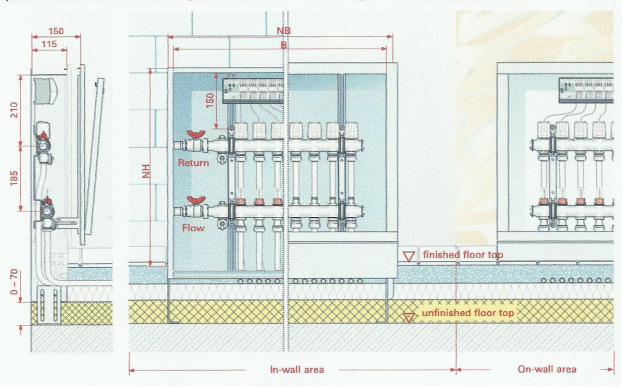
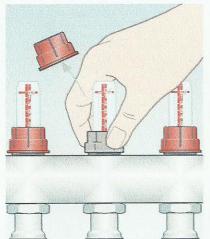
The manifold

The overview shows which manifold possibilities can be selected from the profitherm surface heating technology product line to create a functional system in accordance with building contractor specifications.



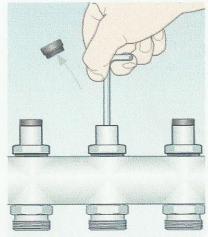
Hydraulic adjustment

The required hydraulic adjustment, in accordance with DIN 18380, must be set on the Topmeter or the fine adjustment valves, according to the calculated water quantity. Hydraulic adjustment of the distribution system ensures that the actual required water quantity is in the heating circuit, and thus, that the system is functional.



Topmeter with viewing glass

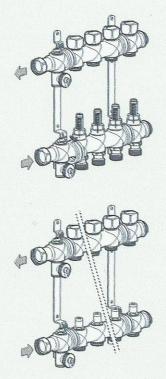
The flow trunk with integrated Topmeters, adjustable flow meter from 0.5 – 5 l/min., no longer requires equalization via the valve curve diagram.



Fine control valve with valve spindle

The flow trunk with integrated fine control valve, adjustable from 1-5 revolutions according to the pressure loss diagram in the calculation section of the documentation.

Heating manifold



The profitherm manifold for 2 to 12 loops are designed for water based systems in accordance with VDI 2035, at a maximum operating pressure of 6 bar and a max. permanent operating temperature of 95 °C. The manifolds are made of stainless steel (no. 1.4301). Specific advantages of manifolds are low-weight, high-quality material, a cross-section that is approximately 10% bigger than that of comparable bronze distribution systems, as well as sound-insulated anchoring, in accordance with DIN 52218, on the distribution system mounting bracket. The distribution system consists of two manifold trunks, (flow and return) that are installed on the distribution system mounting bracket. Depending on how

the distribution system is installed on the mounting bracket, it can be concurrently connected left or right and on alternating sides. Stainless steel profile pipe distribution systems with integrated M 30 x 1.5 thermostat valves and manual regulating caps in the return trunk can be retrofitted with profitherm actuators in 230 V or 24 V. The manifold trunk connection is flat sealing and fitted with a cap nut with 1" internal thread. The manifold offers a 1/2" drain-off and air venting possibility, as well as 3/4" external thread heating circuit connections with Eurokonus, in accordance with DIN V 3838. The profitherm manifold can be installed in the distribution cabinet or on the body of the struc-

	2	3	4	5	6	7	8	9	10	11	12
Manifold length [mm] without comp.	292	342	392	442	492	542	592	642	692	742	792
Manifold + ball valve [mm]	372	422	472	522	572	622	672	722	772	822	872
Heat consumption meter connection vertical [mm]	442	492	542	592	642	692	742	792	842	892	942
Heat consumption meter connection horizontal [mm]	512	562	612	662	712	762	812	862	912	962	1012
Manifold + mixing unit [mm]	585	635	685	735	785	835	885	935	985	1035	1085
Total volume flow		max.	2.500 1	h at Top	meter o	r max.	3.000 1/1	h at fine	contro	l valve	

Note All length including 100 mm mounting distance.

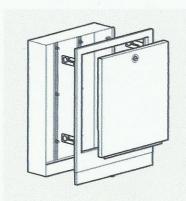
Manifold cabinet UP

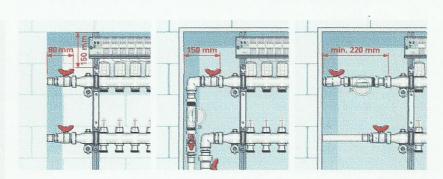
The profitherm in-wall manifold cabinets can be installed in 5 sizes, with or without heat consumption meter. profitherm in-wall manifold cabinets include a recessed frame of hot-dip galvanized sheet steel with laterally punched pipe guides, as well as mounting rails on the rear wall of the cabinet for anchoring the manifold. The manifold cabinet feet are height-adjustable (70 mm). The screed

distributing deflector is adjustable and is removable like the pipe diverter rail. The cabinet front is galvanized, and is free of grease for problem-free painting. The front frame with door and recessed twist lock is removable and adjustable in depth from 110 mm to 150 mm.

profitherm manifolds can be installed with two to 12 flow and return con-

nections depending on size. The flow and return connecting lines must be connected vertically and without tension on the manifold. There is a direct manifold connection on the ascending pipe flow and return lines via the distribution ball valves (3/4" interior thread or 1" interior thread), as well as the heat consumption meter which may be required, including its blocking device.





Cabinet size	Size 1	Size 2	Size 3	Size 4	Size 5	
Cabinet width [mm] 435 Heating circuits w. ball valves w/o heat consumption meter 2 - 3		575	725	875	1025	
		4-6	7-9	10 - 12		
Heating circuits w. heat consumption meter vertical	-	2-4	5-7	8 - 10	11 - 12	
Heating circuits w. heat consumption meter horizontal		2-3	4-6	7-9	10 - 12	
Heating circuits w. mixing unit	-	-	2-4	5-7	8-10	
Cabinet height interior [mm] 705 Cabinet width interior [mm] 435		705	705	705 875	705 1025	
		575	725			
Cabinet depth interior [mm]	110 - 150	110 - 150	110 - 150	110 - 150	110 - 150	
iche dimensions/shell construction 800		800	800	800	800	
Niche dimensions/shell construction width [mm]	AII		760	910	1060	
Niche dimensions/shell construction 115 - 150 width [mm]		115 - 150	115 - 150	115 - 150	115 - 150	

Manifold cabinet AP

The profitherm on-wall manifold cabinet is made of galvanized sheet steel and is available either without paint or with a gloss white paint finish (RAL 9010). The profitherm on-wall manifold cabinets can be installed in 5 sizes, with or without heat con-

sumption meter. The manifolds in the on-wall manifold cabinets can only be connected with a vertical pipe connection, profitherm on-wall manifold cabinets have mounting rails on the rear wall of the cabinet to anchor the manifold. The manifold cabinet feet

are height adjustable (70 mm). The screed distribution deflector is removable. The cabinet has a slide-in door with twist lock. The cabinet depth is 125 mm. Additional information is available on request.

Distribution accessories



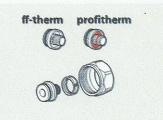
Heat consumption meter 3/4" - vertical and horizontal

Heat consumption meter tubing in vertical or horizontal design with a spacing pipe 3/4" exterior thread – 110 mm long flat sealing, for the installation of a heat consumption meter provided by the building contractor (Pollux, allmess or equivalent) with possibility to install a heat consumption meter immersion sleeve on the distribution system. Please consider the dimensions of the distribution cabinet!



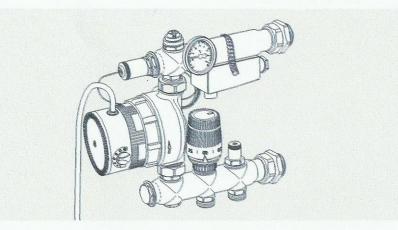
Ball valve 3/4" and 1"

Made of bronze, for shutting off flow and return lines on the profitherm distribution system, available in 3/4" and 1".



Threaded unions

Threaded unions with Eurokonus (3/4" – 18 series threaded union) for connecting 12/14/16/17/18/20 mm ff-therm pipes, and 16 mm profitherm AL heating pipes on the distribution system or heating element.



The constant supply temperature module is used to regulate a constant inlet temperature to a low-temperature area heater that is connected to a high-temperature heating system. The control group is designed for a direct connection with profitherm stainless steel manifolds with 1" union nut.

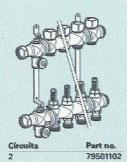
Note

Only use FRÄNKISCHE threaded unions with 3/4" Eurokonus; they conform to DIN V 3838.

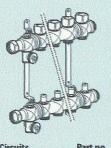
DIN Certco system tests in accordance with DIN 4726 – for ff-therm multi pipes and FRW connection unions.

4.1 General Installation

Distribution technique

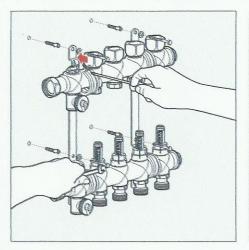


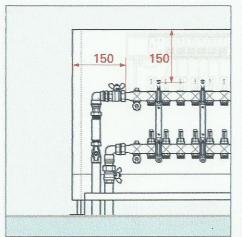
Circuits	Part no.
2	79501102
3	79501103
4	79501104
5	79501105
6	79501106
7	79501107
8	79501108
9	79501109
10	79501110
11	79501111
12	79501112

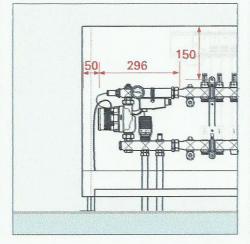


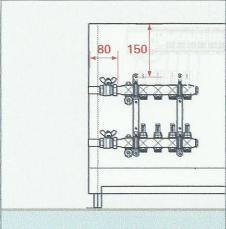
Circuits	Part no.
2	79502102
3	79502103
4	79502104
5	79502105
6	79502106
7	79502107
8	79502108
9	79502109
10	79502110
11	79502111
12	79502112

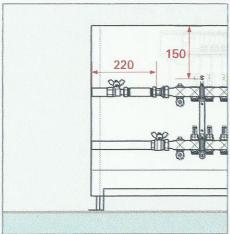


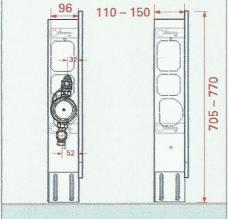


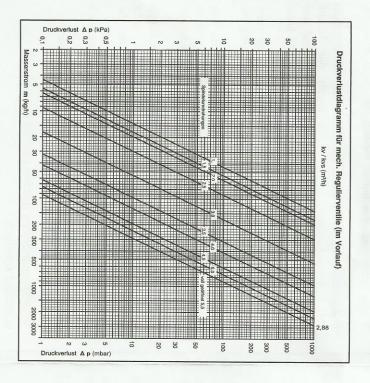


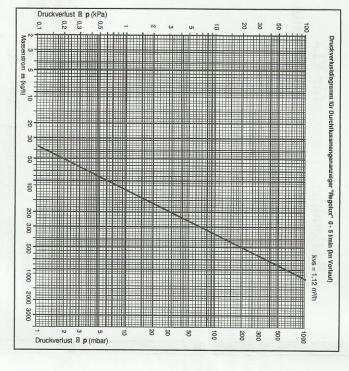


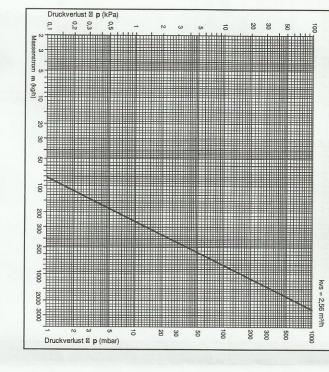












dass ein Kugelhahn am Gussgehäuse Sie Ihre Heizungsleitung entleert. Risse bekommen hat: Dennoch stellen Sie im Frühjahr fest, Für die Dauer der kalten Jahreszeit haben

Druckverlustdiagramm für Thermostatventil (im Rücklauf)

Die Ursache hierfür ist simpel: Sie haben den Kugelhahn nach dem Entleeren

ganz auf Durchfluss gestellt. Somit ist die Heizungsleitung gegen Rohrbruch

geschützt. Allerdings setzt sich ein Wasserrest im Gehäuse zwischen Kugel und Gehäusewand

entweichen. Sie beugen somit einer Zerstörung des und "ganz zu". Dadurch kann das Wasser zwischen Kugelhahns durch Frost vor. Kugel und der Außenwand des Kugelhahngehäuses Drehen Sie, nachdem Sie die Leitung entleert haben, lhren Kugelhahn in eine Stellung zwischen "ganz auf"

