

Modular distribution manifold residential series for closed loop design only

3/4" / DN 20

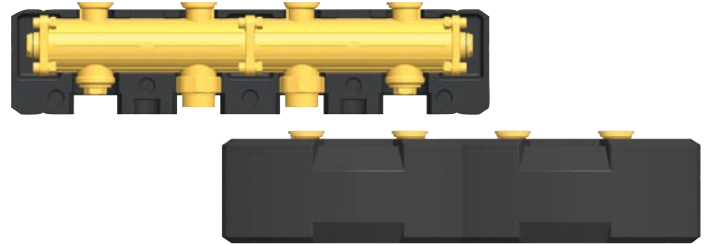
USE in closed loop design. Modular design distribution manifolds allow parallel connection of multiple Zone Modules in order to customize any installation. Available in 2- to 6-sectional designs, for connection of 2 to 9 heating zones they simplify installation, extremely shorten assembly time, providing cost and time savings. Union

connections make mounting of Zone Modules to the manifold fast and easy. Supply and return chambers of the manifold are thermally divided. Add-on manifold module allows trouble-free connection of additional heating circuits to existing system. No special piping, just 2 connections and your installation is complete.

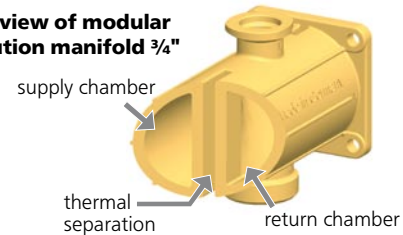
Your advantages:

Distribution manifold - 3/4" / DN 20 modular design, with patented thermal separation of the supply and return chambers, for outputs up to 170 MBH / 50 kW (per boiler connection)

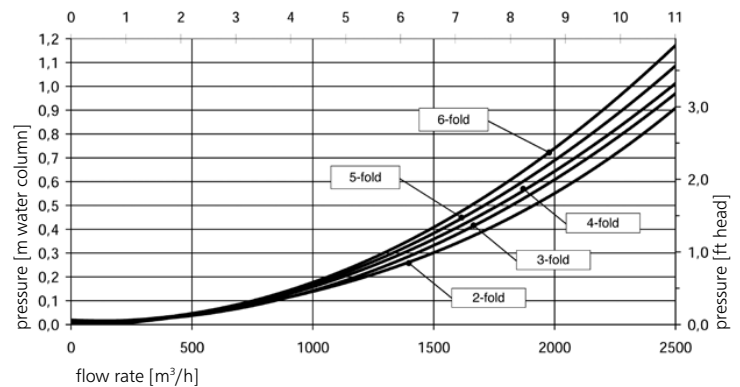
- completely made of brass
- completely pre-assembled
- supply and return chambers thermally separated at 95%
- manifolds are delivered with insulating caps; the insulation for the manifolds is integrated in the zone module insulation
- extremely low resistance, free flow = 1"
- up to six pre-assembled manifold modules available
- multiple boiler connections are possible, for higher outputs



Inside view of modular distribution manifold 3/4"



Pressure drop modular distribution manifold DN 20
 flow rate [USgpm]



TECHNICAL DATA Modular Distribution Manifold DN 20 - 3/4"

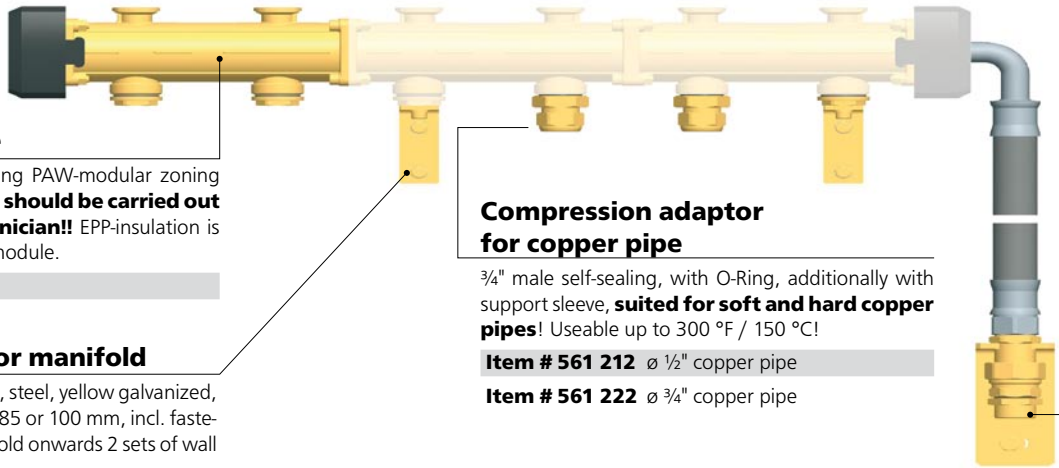
Dimension	DN 20 - 3/4"	
Materials	Fittings	Brass
	Gaskets	EPDM / NBR
	Insulation	EPP-shell halves
Technical data	Max. pressure	8 bar / 116 psi
	Max. temperature	110 °C / 230 °F
	CV value	7.8
Connections	For heating modules	3/4" PAW flange for 1" union
	For boilers	3/4" female x 1" male - flat-sealing (bottom) 2 x for boiler connection, rest plugged
	On the side	3/4" female, plugged for safety group and expansion tank
Dimensions	Center distance	90 mm / 3 17/32"
	Installation height	80 mm / 3 5/22"
	Height of insulation	85 mm / 3 11/32"

Width of the distribution manifold incl. insulation see item list below

Illustration	DN	Options	Item #
	MV DN 20 3/4"	MV 2 modular distribution manifold 2-fold for connection of up to 3 heating circuits Width incl. insulation: L = 440 mm / 17 1/3"	3112 NA
		MV 3 modular distribution manifold 3-fold for connection of up to 5 heating circuits Width incl. insulation: L = 620 mm / 24 3/8"	3113 NA
		MV 4 modular distribution manifold 4-fold for connection of up to 7 heating circuits Width incl. insulation: L = 800 mm / 31 1/2"	3114 NA
		MV 5 modular distribution manifold 5-fold for connection of up to 9 heating circuits Width incl. insulation: L = 980 mm / 38 5/8"	3115 NA
		MV 6 modular distribution manifold 6-fold for connection of up to 11 heating circuits Width incl. insulation: L = 1.160 mm / 45 1/3"	3116 NA

Assembly accessories for distribution manifold

3/4" / DN 20



Extension module

For the extension of existing PAW-modular zoning systems. **The installation should be carried out only by a trained technician!!** EPP-insulation is integrated in the heating module.

Item # 3111

Wall bracket set for manifold

set consisting of 2 brackets, steel, yellow galvanized, for centre distances of 70, 85 or 100 mm, incl. fastening material. From MV 5-fold onwards 2 sets of wall brackets recommended.

Item # 3121

Compression adaptor for copper pipe

3/4" male self-sealing, with O-Ring, additionally with support sleeve, **suited for soft and hard copper pipes!** Useable up to 300 °F / 150 °C!

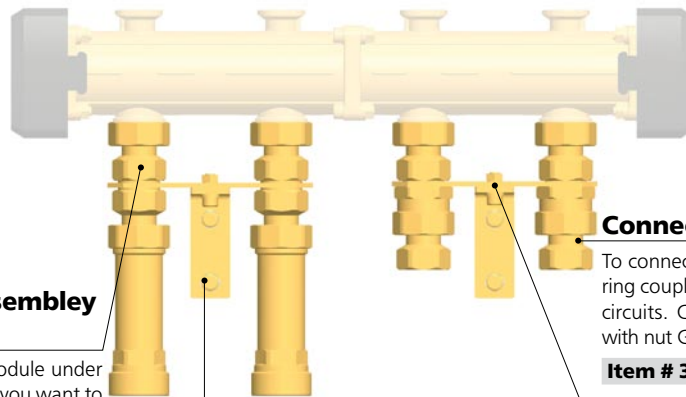
Item # 561 212 \varnothing 1/2" copper pipe

Item # 561 222 \varnothing 3/4" copper pipe

Connecting set for expansion tank

tank connection coupling 3/4", armored hose 3/4" x 700 mm, **for max. tank- \varnothing = 440 mm.**

Item # 7507



Coupling for flow down assembly DN 20

for the installation of a heating zone module under a distribution manifold. **Please note:** If you want to use wall brackets, you will need an additional mounting plate for the installation of a 2-fold distribution manifold MV2 (Item # 3125).

Item # 31241

Connecting set DN 20 - 3/4" female

To connect pipes with male thread or the clamping-ring coupling (see above) under the modular heating circuits. Consisting of: 2 flanged sockets 3/4" female with nut G 1".

Item # 3131

Mounting plate

flat sealing under a modular manifold, for fixing a wall bracket, one side 1" female (nut), other side 1" male.

Item # 3125

Wall bracket set for manifold

set consisting of 2 brackets, steel, yellow galvanized, for centre distances of 70, 85 or 100 mm, incl. fastening material. From MDM 5-fold onwards 2 sets of wall brackets recommended.

Item # 3121