

MW hydraulic separator for modular systems

1" / DN 25

USE in closed loop design. In conjunction with boilers having high resistance (condensing) or when total flow rate of all parallel running circulators is higher than maximum flow rate of the boiler, the low-loss header provides hydraulic separation, decoupling boiler and system circuits from each other. It is recommended to use the

low-loss header in applications in which the total system flow rate exceeds the maximum boiler flow rate. PAW strongly recommends the use of a low-loss header in cases where the system head and flow rates are unknown.

Function

When used in conjunction with boilers having build-in pump, the low-loss header acts as hydraulic break, decoupling boiler and system circuits from each other. It is recommended to use the low-loss header in applications in which the total system flow rate exceeds the maximum boiler flow rate.

PAW strongly recommends the use of a low-loss header in cases where the system head and flow rates are unknown.

These are typical functional conditions.

Following is an example of three possible situations of hydraulic stability.

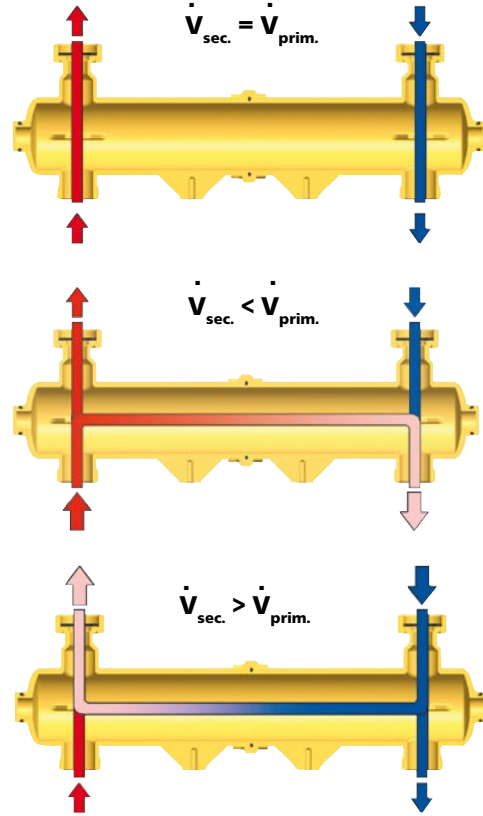
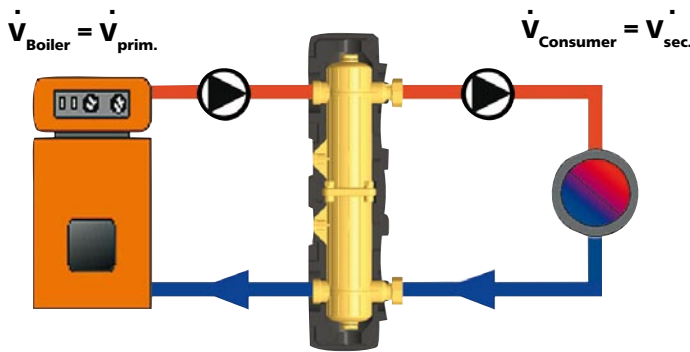


Illustration	Type / Characteristics	Item #
<p>Suitable for vertical or horizontal installation</p>	<p>MW 25 hydraulic separator up to 3500 l/h / 15.4 USgpm Completely made of brass, completely insulated with EPP insulation, for the installation under a modular distribution manifold DN 25 or separately (vertically or horizontally) on the wall.</p> <p>Connections: PAW flange with 1 1/2" nut, 1 1/2"/1" female flat-sealing with fitting, 2 x 1/2" female for immersion sleeve and fill and drain valve, width of insulation = 600 mm / 23 5/8", installation height = 129 mm / 5 3/32"</p>	
	<p>MW 25 hydraulic separator up to 3500 l/h / 15.4 USgpm</p>	34421 NA
	<p>Hydraulic separator DN 25 up to 1600 l/h / 7 USgpm Completely made of brass, with routed supply and return line, for the installation under a single modular distribution manifold DN 25. The EPP insulation is integrated in the heating circuit. Can also be installed under a modular distribution manifold DN 25 (by using the mounting plate item 3425) or separately (in the pipe). In that case 2 connection sets item 2151 for the PAW flanges are necessary.</p> <p>Connections: 1" PAW flange for 1 1/2" nut (above), 1" female x 1 1/2" male flat-sealing (below) with fitting, 3/4" female closed with plug (on the side), width = 330 mm / 13", installation height = 100 mm / 3 15/16", distance between the connections = 125 mm / 4 29/32"</p>	
	<p>Hydraulic separator DN 25 up to 1600 l/h / 7.0 USgpm</p>	3442 NA

Assembly accessories for the MW hydraulic separator

1" / DN 25

Sensor well

For supply line sensor/boiler sensor, connection 1/2" male, for sensor diameter of 6 mm / 0.24", depth = 60 mm / 2.36", chromed brass.

Item # 566002

Wall bracket set for hydraulic separator DN 25

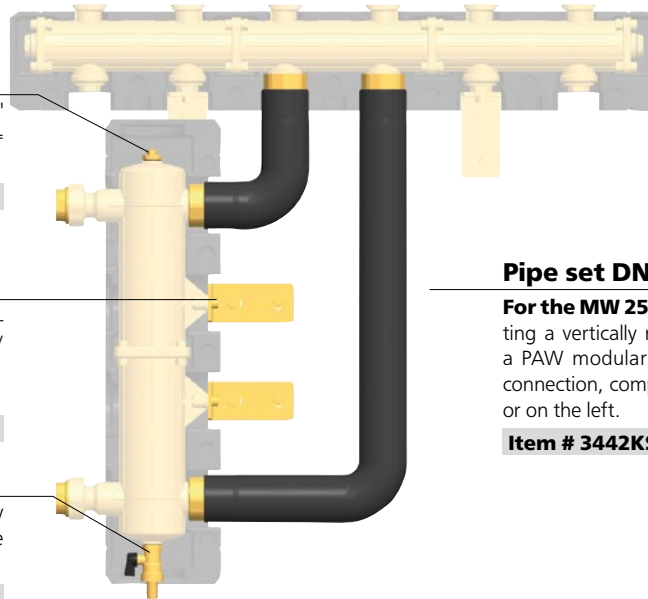
Two wall brackets in a set, steel, yellow galvanized, suitable for wall distances of 100 mm / 3.94", 125 mm / 4.92" or 150 mm / 5.9", incl. mounting equipment.

Item # 3421

Fill and drain valve

Solid design, with hose nozzle and cap, completely made of brass, plastic handles, connection 1/2" male self-sealing with counter nut.

Item # 2260 NA



Pipe set DN 25

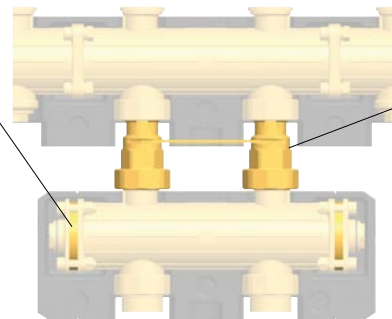
For the MW 25 hydraulic separator, for connecting a vertically mounted hydraulic separator under a PAW modular distribution manifold, flat-sealing connection, completely insulated, outlet on the right or on the left.

Item # 3442KS1

Conversion kit for the modular distribution manifold DN 25

For extending additionally a distribution manifold with an integrated hydraulic separator (**low-loss header**). **Application range: up to 1600 l/h, max. up to MV3 3-fold modular distribution manifold!** Consisting of two distance rings for a resistance-free connection of the flow and return chamber, incl. screws and O-rings.

Item # 3443



Mounting plate DN 25

For installation under a modular distribution manifold and for attaching a hydraulic separator DN 25 up to 1600 l/h.

Item # 3425

Low-loss headers are used for boilers with an integrated pump. By means of the conversion kit the modular distribution manifolds have a bypass which connects the supply and return line without causing resistance (low-loss header). It must be considered that the pump of the boiler circuit must deliver a higher flow rate than the consumer pumps need in total. Otherwise, unwanted circulation occurs on the right or left end of the distribution manifold. In that case a hydraulic separator (item 34421 or 3442) must be installed under a distribution manifold.

Please note: The use of a low-loss header has to be planned carefully. In connection with central heating boilers hydraulic separators must be installed before/under a distribution manifold as the boiler delivers a low flow rate with a high temperature difference (leads to unwanted circulation on low-loss headers).

Illustration	DN	Options	Item #
	MVW DN 25 1"	MVW 2 low loss header, 2-fold Up to 3 heating circuits can be installed Width incl. insulation : L = 580 mm / 22.8"	34422 NA
		MVW 3 low loss header, 3-fold Up to 5 heating circuits can be installed Width incl. insulation: L = 830 mm / 32.7"	34423 NA