

## MW hydraulic separator for modular systems

1 1/4" / DN 32

**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 built-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.

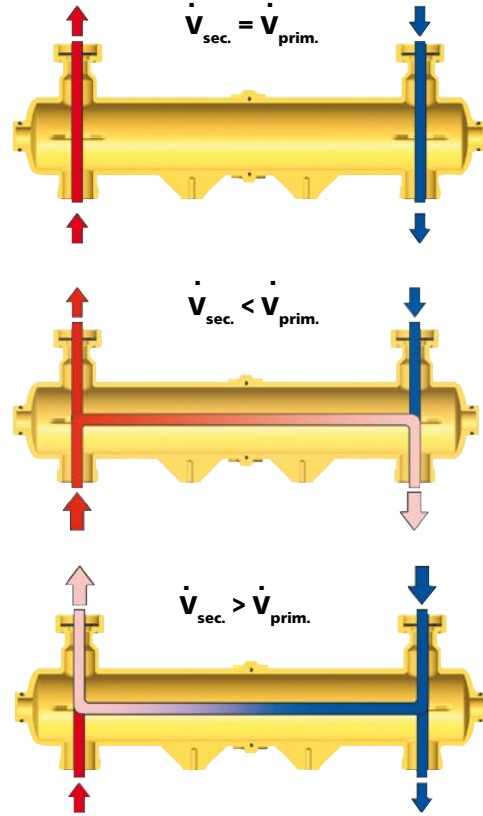
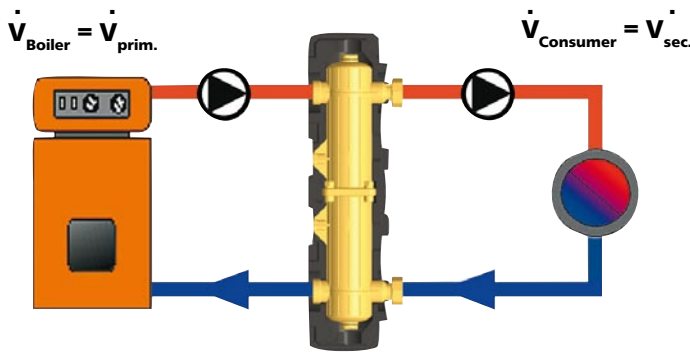


Illustration	Type / Characteristics	Item #
<p><b>Suitable for vertical or horizontal installation</b></p>	<p><b>MW 32 hydraulic separator up to 4800 l/h / 21.1 USgpm</b> Completely made of brass, completely insulated with EPP insulation, for the installation under a modular distribution manifold DN 32 or separately (vertically or horizontally) on the wall.</p> <p><b>Connections:</b> PAW flange with 2" nut, 1 1/4" NPT female, 2 x 1/2" female for immersion sleeve and fill and drain valve, width of insulation = 600 mm / 23 5/8", installation height = 150 mm 5 29/32"</p>	<p><b>37421 NA</b></p>
	<p><b>Hydraulic separator DN 32 up to 2600 l/h / 11.5 USgpm</b> Completely made of brass, with routed supply and return line, for the installation under a single modular distribution manifold DN 32. The EPP insulation is integrated in the heating circuit. Can also be installed under a modular distribution manifold DN 32 (by using the mounting plate item 3725) or separately (in the pipe). In that case 2 connection sets item 2152 for the PAW flanges are necessary.</p> <p><b>Connections:</b> 1 1/4" PAW flange for 2" nut (above), 1 1/4" female x 2" male flat-sealing (below) with fitting, 3/4" female closed with plug (on the side), width = 330 mm, installation height = 125 mm, distance between the connections = 125 mm</p>	<p><b>3742 NA</b></p>

## Assembly accessories for the MW hydraulic separator

1 1/4" / DN 32

### Immersion sleeve

For supply line sensor/boiler sensor, connection 1/2" male, for sensor diameter of 6 mm / 1/4", depth = 60 mm / 2 11/32", chromed brass.

Item # 566002

### Wall bracket set for hydraulic separator DN 32

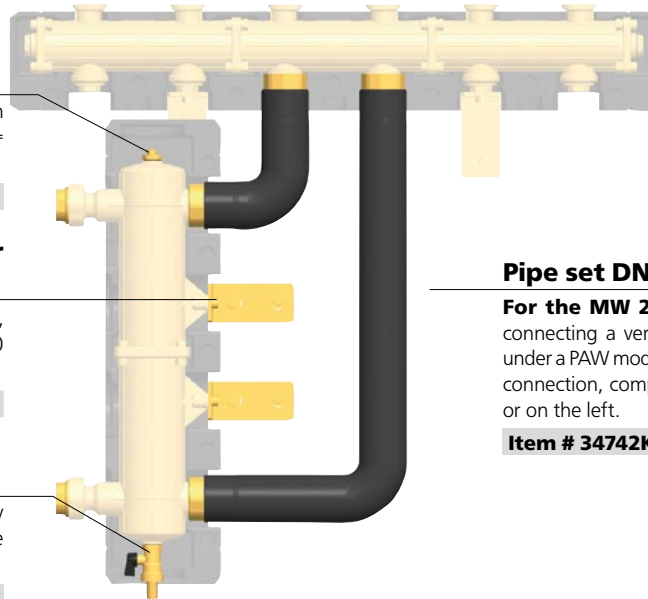
Two wall brackets in a set, steel, yellow galvanized, suitable for wall distances of 155 mm / 6 1/8", or 180 mm / 7 3/32", incl. mounting equipment.

Item # 3721

### 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 32

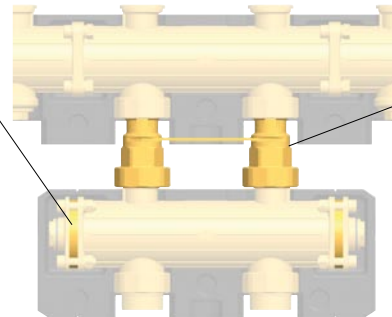
For the MW 25/32 hydraulic separator, for connecting a vertically mounted hydraulic separator under a PAW modular distribution manifold, flat-sealing connection, completely insulated, outlet on the right or on the left.

Item # 34742KS1

### Conversion kit for the modular distribution manifold DN 32

For extending additionally a distribution manifold with an integrated hydraulic separator (**low-loss header**). **Application range: up to 2600 l/h, max. up to MV3 3-fold modular distribution manifold!** Consisting of two distance rings for a resistance-free connection of the supply and return chamber, incl. screws and O-rings.

Item # 3743



### Mounting plate DN 32

For installation under a modular distribution manifold and for attaching a hydraulic separator DN 32 up to 2600 l/h.

Item # 3725

**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 3742 or 37421) must be installed under a distribution manifold.

**Please note: If a low-loss header can be used must be checked when the system is planned. 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 #
	<b>MVW DN 32 1 1/4"</b>	<b>MVW 2 low loss header, 2-fold</b> Up to 3 heating circuits can be installed Width incl. insulation : L = 600 mm / 23 5/8"	<b>37422 NA</b>
		<b>MVW 3 low loss header, 3-fold</b> Up to 5 heating circuits can be installed Width incl. insulation: L = 850 mm / 33 15/32"	<b>37423 NA</b>