



MTS – Thermosiphon Mixer

For pressures to 20 bar... Capacities to 500 kg/h

Description

The MTS allows you to mix very hot condensate with condensate at a lower temperature, while avoiding the water hammers that would usually occur. An internal coil slowly raises the temperature of the condensate coming out of the steam trap, until it reaches the mixing temperature. The thermosiphon effect created at the outlet of the coil sends the mix of condensate at homogeneous temperature back to the condensate return line.

Maximum Condensate Flow

Maximum Allowable Pressure : 20 bar
Maximum Allowable Temperature : 250°C
Maximum Operating Pressure : 20 bar

Connections

Socketweld

Advantages

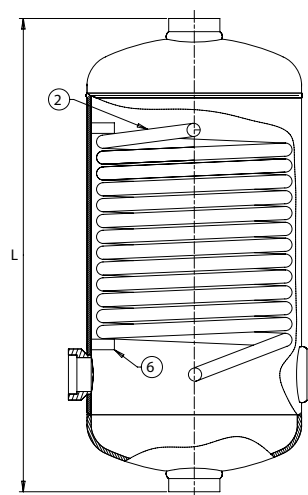
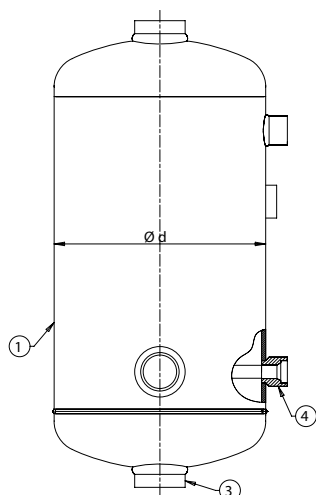
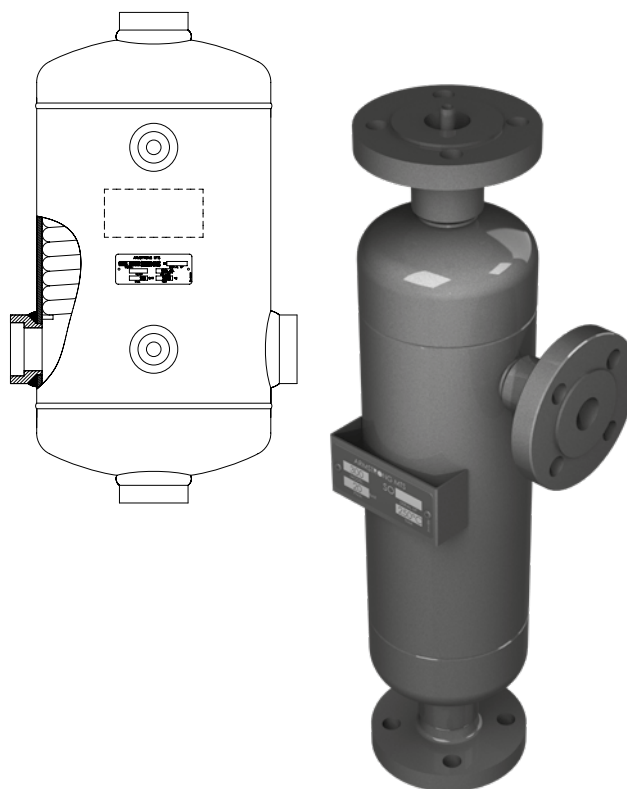
- Eliminates water hammers
- Full stainless steel coil to avoid any corrosion
- Self-regulating (operates only when the steam-trap is discharging hot condensate)
- The system already reacts from a differential temperature of 3°C.
- Serial or Parallel installations are possible

Specifications

The MTS is designed to work in an optimal way combined with an Armstrong F&T steam trap. Consult factory for any other steam trap type utilization.

Options

- Universal Connector
- Steam Trap



MTS-500

Table CRE-258-1. MTS 300 Series – Thermosiphon Mixer (dimensions in mm)

L Face to Face	444
d External Diameter of the body	115
1 Cold Condensate Inlet	1"
2 Hot Condensate Inlet	3/4"
3 Outlet Mixed-Condensate	1"

Table CRE-258-2. MTS 500 Series– Thermosiphon Mixer (dimensions in mm)

L Face to Face	572
d External Diameter of the body	234
3 Cold Condensate Inlet	2"
4 Cold Condensate Outlet	1 1/4"
6 or 6' Cold Condensate Inlet	2"
7 Drain	2"
8 Hot Condensate Inlet	1 1/4"
9 Cold Condensate Outlet	2"

All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.

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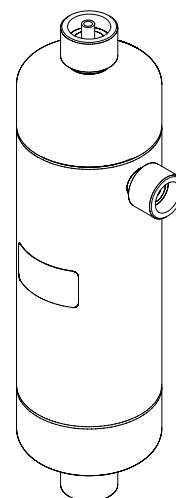
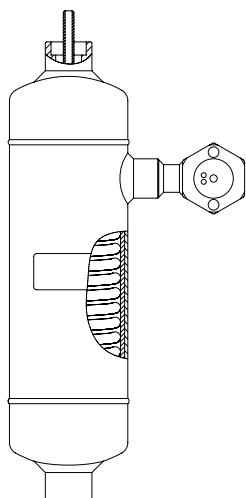
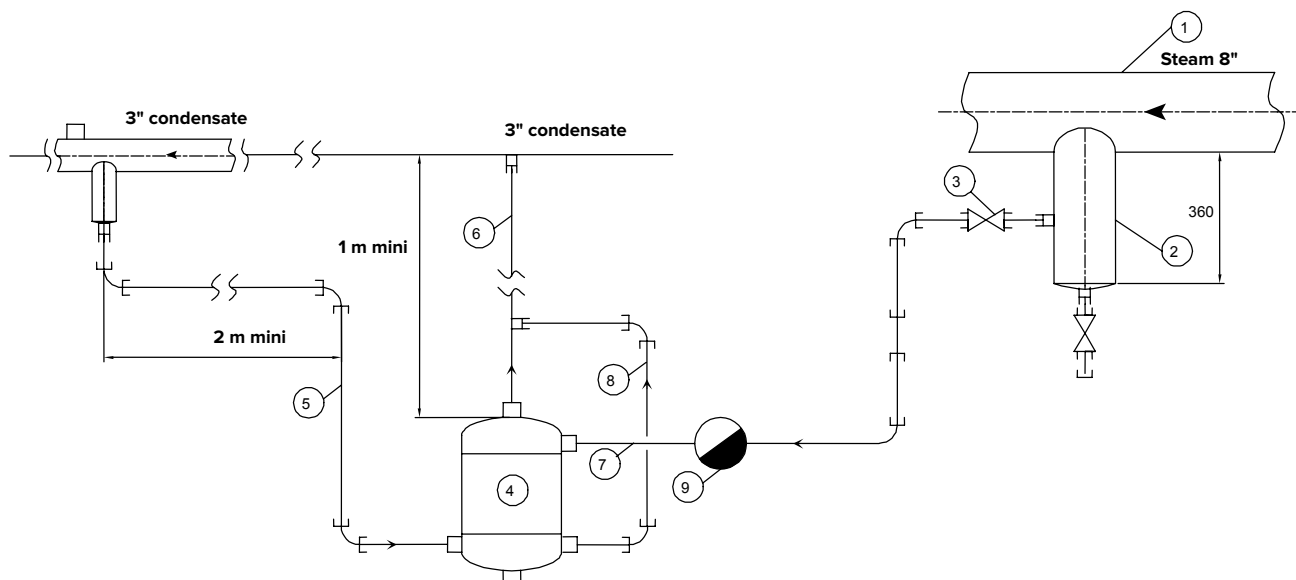


Table CRE-259-1. Materials

Rep	MTS-300	MTS-500	Description	MTS-300	MTS-500
	Elements			Materials	
1	1	1	Body	304L STN. STL.	P265GH A106B
2	1	1	Coil	316L STN STL.	316L STN STL.
3	2	4	Couplet	304L STN. STL.	C22.8
4	1	2	Couplet	304L STN. STL.	304L STN. STL.
5	1	1	Identification Tag	Aluminium	Aluminium
6 ou 6'	N/A	2	Couplet	N/A	C22.8
7	N/A	1	Drain	304L STN. STL.	N/A
8	N/A	1	Hot Condensate Inlet	304L STN. STL.	N/A
9	N/A	1	Cold Condensate Outlet	304L STN. STL.	N/A

Note: MTS-300 has common condensate outlets and can be delivered with universal connector and steam trap as options.



Typical Installation

1. Steam line
2. Drip leg
3. Drip leg isolation valve
4. Thermosiphon mixer
5. Low temperature condensate inlet
6. Low temperature condensate outlet

7. Hot condensate inlet
8. Cooled condensate outlet
9. Armstrong steam trap F&T 2000 mounted on universal connector

For bigger size installation, please contact Armstrong or your local Representative.