

# MLS Series Cooling Water Filter

MLS Series process cooling water filters are highly efficient stainless steel strainers which feature a large conical screen offering substantially more filtering screen area versus traditional y-strainers or basket strainers. This increased filtering screen area results in longer operation between cleaning.

Water enters the bottom of the strainer housing and flows upward. Heavier debris and particulate is accelerated downward away from the conical screen into the sizable reservoir at the base of the strainer. The debris can then be flushed from the reservoir via the debris flush port.

The flow path through the strainer in combination with the large filtering screen surface area allows these filters to operate with less than a 1 psi pressure drop at the maximum flow rate when clean.

MLS-3 WITH CLAMP ON  
LID AND OPTIONAL  
PRESSURE GAUGES



MLS-4 WITH CLAMP ON  
LID AND OPTIONAL  
PRESSURE GAUGES



## PRODUCT FEATURES

- 2" to 10" connection sizes available
- 5 to 2,000 gallons per minute
- 50 mesh (297 micron) and 100 mesh (149 micron) standard filter screens
- Available with a wide range of screen mesh options
- Body and filter are made of 304 stainless steel
- Models with flange connections use 150 pound 304 stainless steel flanges
- 1/4" NPT pressure gauge ports
- 1/4" air relief port
- 1 year warranty covering parts and labor

The picture below shows the conical filter screen removed from the housing



MLS-6 WITH BOLT ON LID AND OPTIONAL  
PRESSURE DIFFERENTIAL ALARM (PDA) AND  
AUTOMATIC TIMER FLUSH (ATF)

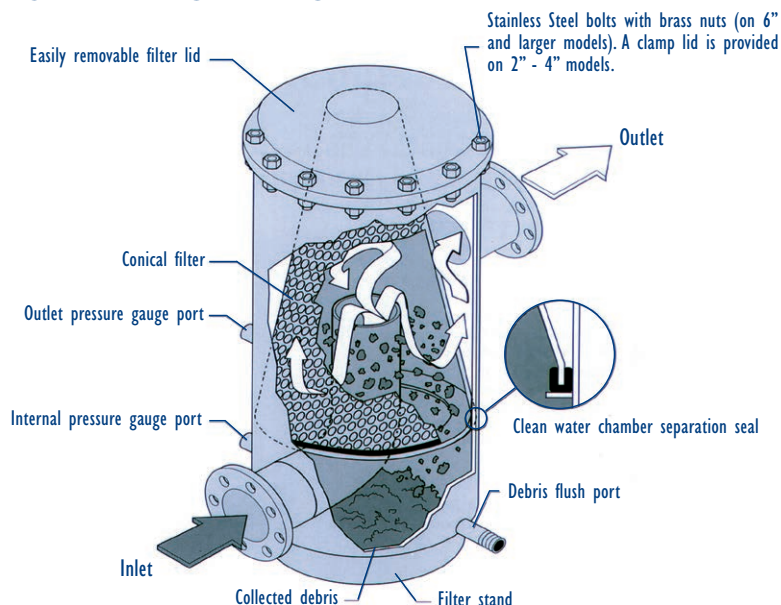


## AVAILABLE OPTIONS

- A wide range of filtration levels can be maintained by selecting one of the numerous screen mesh options available including as fine as 200 mesh (74 micron)
- Pressure differential alarm (PDA) Continuously monitors the inlet and outlet system pressure and triggers an audible and visual alarm when the pressure differential exceeds the preset limit indicating filter cleaning is required
- The Automatic Timer Flush (ATF) can be programmed to open and close the flush valve automatically, removing any debris from the filter reservoir (*Not recommended when using glycol or similar additives*)
- Optional factory installed full size bypass to allow full system flow while isolating the filter for cleaning (pictured below)



## TYPICAL FILTER OPERATION



	Model	MLS-2	MLS-3	MLS-4	MLS-6	MLS-8	MLS-10
Connection Size	Inches	2	3	4	6	8	10
Maximum Flow Rate	GPM	100	200	350	750	1,300	2,000
Working Pressures	PSI	125	125	125	150	150	150
Flush Port Sizes	NPT	1 1/2	1 1/2	1 1/2	1 1/2	2 1/2	3 1/2
Unit Dimensions <sup>2</sup> (inches)	Canister Diameter	6 1/2	9	11 1/2	17	48	59
	Height	16	16	26	36	31 3/4	40
	Total Width	10	13 1/2	19	25	Flange	Flange
Connection	Type	NPT	NPT	Flange	Flange	Bolt	Bolt
Lid	Style	Clamp	Clamp	Clamp	Bolt	219	431
Unit Dry Weight (with no optional features)	Pounds	16	32	65	129		



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*Since product innovation and improvement is our constant goal, all features and specifications are subject to change without notice or liability.*

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