



**Pentair**  
Equipment Solutions



**ATS WATER**  
TECHNOLOGY

## AquaLine™ Liquid Filtration System

AquaLine™ liquid filtration systems are ergonomically designed using Pentair proprietary FRP housing and cartridge filter element that provide superior flow rates, corrosion resistant, lesser foot print and long lasting performance.

### High Flow Filtration Solution

#### Rugged Design & Lower Cost Alternative

The AquaLine™ Housings feature 8-inch diameter fiberglass housing with a rugged construction that provide long lasting performance. They deliver superior flow rates and are a cost-effective alternative to steel equivalents, offering about 25% to 50% in cost savings.



#### Labor-Saving Quick Change Design

AquaLine™ Housings with Pentair's quick change design allow operators to access and change out cartridges in a matter of minutes - no need to disassemble nuts and bolts. The time to change an AquaLine™ cartridge of flow rate 150 gpm is typically 5 minutes versus 30 minutes for standard housings for the same flow rates. A single AquaLine™ element can be changed while the whole system stays online, eliminating the additional cost incurred for system downtime.



#### Vertical Rack System Saves Valuable Floor Space

Its compact vertical rack design saves valuable floor space, skids are also with isolation valves that does not require system shut down to change filter element.



#### High Performance Media Technology

AquaLine™ pleated cartridge is available in 6.75-inch diameter and 60-inch length. The Cartridges feature polypropylene media, a PVC core and a proprietary O-ring seal. The pleated construction with an outside-in flow provides maximum flow rates with the lowest possible pressure drop. The cartridges feature 20 times more square feet of media. The extended surface media provides longer element life, fewer filter change-outs. Hence saving on frequent cartridge replacement costs & labor costs. These are available in different micron rating of 1, 5, 10 & 20 microns.



# AquaLine™ Liquid Filtration System

## Technical Specifications

Max. Recommended Capacity of the System	Skid Model Name	Skid Dimension Inch / mm	Skid Weight		No. of AquaLine™ Housing (AQ 8 - 60) (Ø8"X60" L)	No. of AquaLine™ PP Cartridges (XYZ µm Nominal) (AL-XYZ-60 B), (Ø6.75"x60" L)
			Dry Weight Kgs (±5%)	Wet Weight Kgs (±5%) 1.0 SG Liquid		
300 gpm *	2 Housing - Narrow	107 X 28 X 92 (inch) 2718 x 711 x 2337 (mm)	345	476	2	2
450 gpm *	3 Housing - Narrow	107 X 28 X 92 (inch) 2718 x 711 x 2337 (mm)	376	544	3	3
750 gpm *	5 Housing - Narrow	107 X 28 X 92 (inch) 2718 x 711 x 2337 (mm)	451	687	5	5
1200 gpm *	8 Housing - Narrow	115 X 42 X 82 (inch) 2921 x 1067 x 2083 (mm)	592	921	8	8
1500 gpm *	10 Housing - Narrow	134 X 43 X 93 (inch) 3403 x 1092 x 2362 (mm)	848	1293	10	10

### Notes:

- All systems are non ASME stamped versions.
- For a skid with ASME housings the vent valve will be individually located on the removable endcap of each housing and the outlet port on the other endcap goes to duplex materials with an adapter. "ASME is at higher price".
- Micron Rating (nominal) of the filter cartridge can be as per requirement from 1, 5, 10 and 20 micron.
- When used as post safety filter, the standard Maximum flow / cartridge is 150 gpm (34m<sup>3</sup>/hr) for water. Lower flows typically result in lower operating costs. If feed water quality is worse in terms of suspended solids/ turbidity, further deration is required in max flow/ cartridge.
- When lower micron rating filter elements or absolute rating filters are used, lower flows/ cartridge are suggested.
- Maximum differential pressure across cartridge shall not exceed 35 psig (2.4kg/cm<sup>2</sup>).
- Higher flow rates reduce cartridge life and dirt holding capacity.
- Standard interconnecting piping within the skid is schedule 80 PVC. Schedule 80 CPVC is available as an option.
- Systems with isolation valves on housings or pairs of housings are available as option. Skids with isolation valves need not be shut down to change filter elements.
- Pentair standard terms and conditions apply for all purchase. No process warranties or guarantees are implied unless provided in writing by Pentair.

## Why Pentair Equipment Solutions?

### In-house Design Capability

The AquaLine™ systems are designed in-house at our Global Design Center. The designs are regularly updated to incorporate new features and technology.

### In-house Component Manufacturing

Pentair manufactures majority of the components in-house like AquaLine™ FRP housings, AquaLine™ cartridge elements and in-house skid assembly.

### In-house Assembly

We manufacture the AquaLine™ systems in our state-of-the-art ISO 9001-2008 certified manufacturing facility.

### Quality Without Exception

Each AquaLine™ System is subjected to rigorous quality checks and hydro-testing before it is shipped.



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