

HIGH FLOW FILTRATION SOLUTIONS

For Data Center Coolant Distribution Units (CDUs)

As data centers move to high-density liquid cooling architectures, Coolant Distribution Units (CDUs) are critical for maintaining thermal stability and system reliability. VYTAL high-flow filtration systems integrated into CDU loops protect pumps, heat exchangers, cold plates, and control valves from particulate contamination.

HIGH FLOW PERFORMANCE IN A SMALL FOOTPRINT

The VYTAL High-Flow Filtration System is engineered to deliver up to 250 GPM per housing within a compact 12" x 12" x 60" envelope. By maximizing flow capacity in a reduced footprint, VYTAL minimizes mechanical room space requirements and reduces the number of housings needed in high-demand cooling applications.

The streamlined internal flow path is designed to maintain low differential pressure, preserving pump efficiency and ensuring stable coolant delivery in mission-critical CDU and liquid cooling systems.



PRECISION FILTRATION

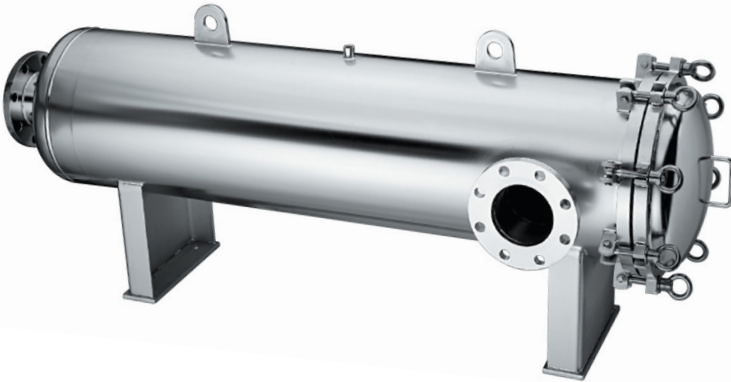
VYTAL high-flow cartridges utilize optimized pleated media to maximize effective surface area while maintaining structural integrity under high flow conditions. Filtration options down to 0.5 micron provide consistent particulate removal to protect cold plates, heat exchangers, pumps, and control components.



THE RIGHT FILTRATION SOLUTION. EVERY TIME.

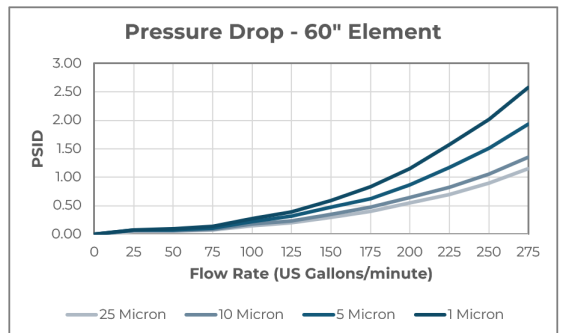
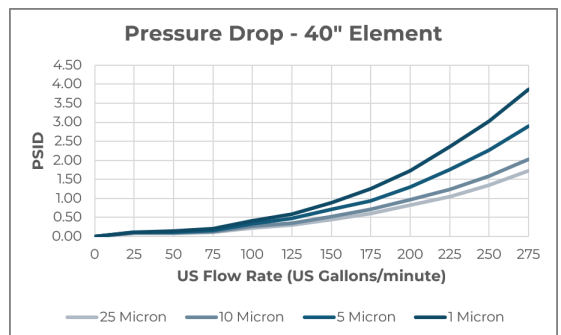
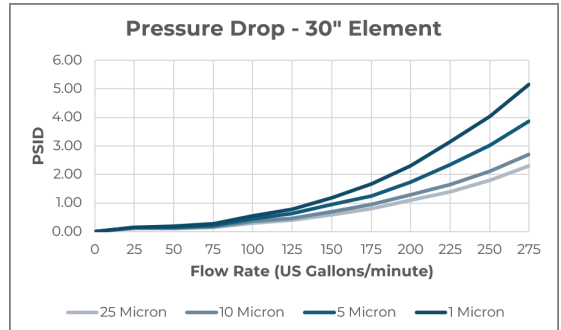
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CUSTOM ENGINEERED HOUSINGS TO SUIT YOUR APPLICATION

- » Carbon Steel, 304SS, 316SS or 316LSS
- » Swing Lid design with Eyebolt closure for dependable sealing / Davit Arm standard on larger sizes
- » 150psi design pressure / 300F max temp
- » Sizes to accommodate 1-19 elements (larger available)
- » Inside-Out or Outside-In flow path designs available
- » Differential/Drain/Vent connections standard
- » Standard EPDM o-ring seal
- » Finish: 2-Part Epoxy on Carbon Steel, Acid Wash with Electropolish exterior on Stainless



*Based on internal testing



HIGH PERFORMANCE MISSION-CRITICAL COOLING

- » Improved system reliability
- » Reduced downtime risk
- » Extended pump and heat exchanger life
- » Enhanced heat transferefficiency
- » Lower operating costs



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