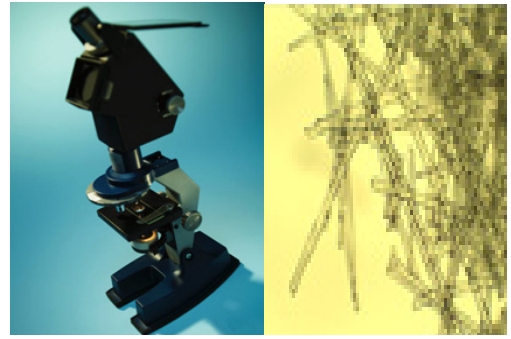


Contaminant Identification

Particle size analysis will give the user the number and size of the particles in a fluid, but will not inform them of the particle materials. This information is critical to filter performance, as well as to the quality of the final fluid product after filtration.

Our laboratory staff captures contaminants on filter discs then, using optical imaging technologies examines the contaminants for initial identification as inorganic or organic. If bacteria are present, then we use outside experts to identify the bacteria. Identifying inorganic particles or unknown organic substances can be done using advanced chemical analyses at local academic and commercial laboratories.

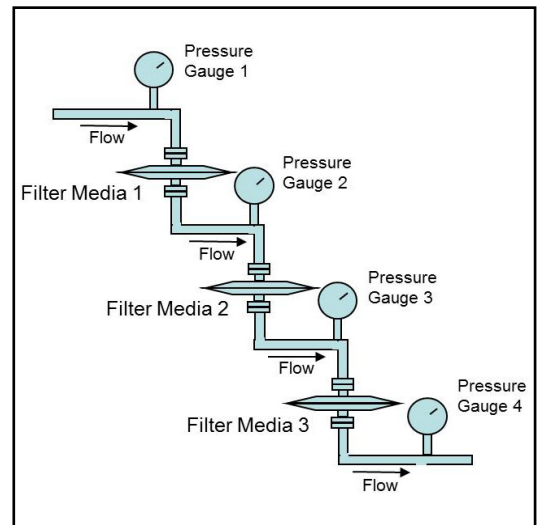


Throughput Testing

A critical goal when designing a new system is maximizing the life of the filters chosen. Of course, the nature of the fluid and the amount of contaminant to be removed have a great effect on filter life, but there is no established way to predict filter life other than doing small scale filtering tests. These tests, often called "filterability" tests, pass actual fluid through filter media to determine how much fluid can pass through before the filter media becomes clogged.

Using the results of the particle size analyses and contaminant identification processes, our filtration experts will choose the media and membrane options that are likely to last the longest and produce the fluid quality desired in the most cost-effective manner. Using a setup similar to the one shown on the right, fluid is pumped at a constant flow or pressure through the chosen media until the pressure drop across the media reaches a defined level. The amount of fluid is recorded. The filtered fluid is captured in a clean container and may be filtered again. This simulates the conditions that may be found in a single or multi-stage filter systems. Critical Process Filtration reports the results of the testing for various filter options and recommends the option that is most effective and efficient.

Possible Throughput Test System



Quality Standards

Our goal is to ensure our customers the greatest possible value for their filtration dollar. Our state of the art manufacturing facility and quality management system are certified to meet ISO 9001:2008 standards. Each operation from assembly and test to cleaning, drying, and packaging is done in appropriately rated clean rooms. A sophisticated MRP system collects and processes real time data from manufacturing centers and inspection points. This allows variable and attribute data to be quickly and easily analyzed driving constant improvements in both quality and cost.

Total Performance

Critical Process Filtration, Inc. is a vertically integrated manufacturer of filtration products for industries in which filtration is considered a critical part of the manufacturing process. We supply a complete line of products and services to help you cost effectively satisfy all your filtration requirements from a single source.

Contact our **Technical Service Department** to learn more about these and other services available from Critical Process Filtration.



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