

Permanent Media Filters

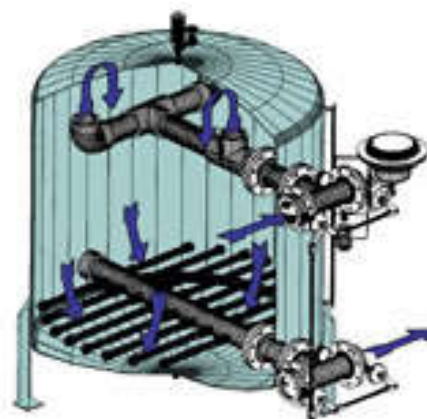


Permanent Media Filtration

Permanent media filtration has a distinct advantage over disposable bags, cartridges or hydrocyclone separators. Permanent media filtration is a positive filtering media that is easily backwashed for cleaning. Puroflux filters utilize the finest media. This media can be used individually or combined to optimize filtration efficiency. Puroflux standard media physically removes particulate 10 micron and smaller.

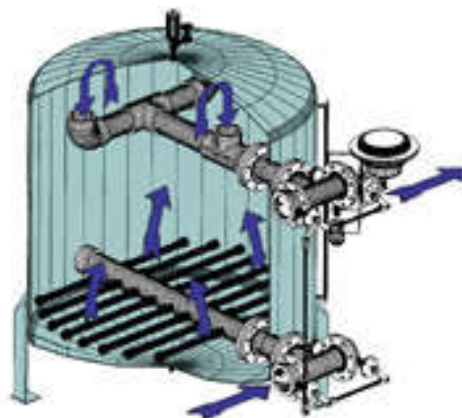
Filtration Cycle

Influent¹ is directed through a series of valves into the overdrain of the filter, where it is evenly distributed over the filtration media. It is then forced down through the media bed where the suspended particulate is trapped in the voids formed between the media. The clean effluent² then passes through the underdrain and is returned to the original source. As the voids in the media are filled, the filter will start to blind off. When the maximum differential pressure is reached, the filter will require a backwash.



Backwash Cycle

The filter is backwashed by reversing the fluid flow through the filter. The backwash fluid is directed into the filter through the underdrain and up through the media. As the backwash fluid moves through the media it causes the bed to lift and separate. The tumbling action of the media causes a scouring effect which releases trapped particulate and suspends it in the backwash flow. The fluid then carries the particulate that is suspended up through the overdrain and out to waste.



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