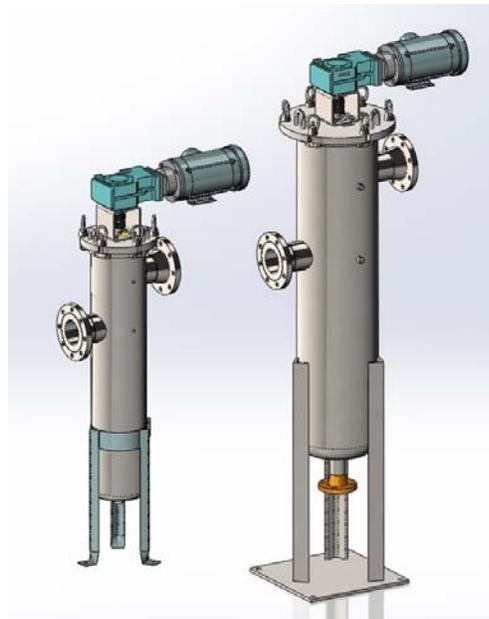




New High Flow Metaledge® Self-Cleaning Filter System

Purolator Advanced Filtration has announced the latest in a series of innovations to its Metaledge® self-cleaning product family. The Metaledge® filter product family was originally introduced in the 1950's, and since that time has been continuously improved upon to meet the needs of the market. All Metaledge® filter products are designed and manufactured at the Purolator Advanced Filtration complex in Greensboro, North Carolina.



SCF-144 unit on left, SCF 147 on right

The SCF-147 filter system builds on the same proven self-cleaning filter technology as existing versions of the Metaledge® products. The cornerstone of this technology is the proprietary and exclusive Metaledge® enhanced wedge wire media. The wire for Metaledge® elements is preformed to a wedge shape prior to winding on a perforated support core to produce a tapered

flow path opening inward. This media is available in a wide range of micron ratings from 25 to 500 microns, each with a high porosity and low clean pressure drop. Compared to traditional wedge wire media, the Metaledge® media has a 2-3x higher flow capability at the same pressure drop.

As fluid flows through the filter element, contaminants collect on the surface of the outer diameter. The smaller particles wash through the tapered openings without clogging the element. Particles larger than the openings are stopped at the outer surface where they are removed by the cleaning knife. When the pressure drop across the filter element reaches a predetermined point, the cleaning feature of the system is initiated. A cleaning knife blade passes over the rotating filter element surface, removing the contaminants. These contaminants remain in suspension or fall to the bottom of the filter housing where they can be evacuated through the bottom drain.

The SCF-147 model has been designed to offer significantly higher flow rates than existing Metaledge® models. SCF-147 units are capable of flow rates of up to 900 gpm, compared to 300 gpm for the next smaller size- the SCF-144. This higher flow capability enables the Metaledge® technology to be applied across a broader range of applications, and in some cases eliminate the need for parallel SCF-144 units previously needed to manage higher flow rates.

SCF-147 models are designed (and can be stamped) to ASME Sect. VIII, Div. 1 code standards, and are available with 4", 6", or 8" inlet/outlet flanges. Available alloys include carbon steel, 304ss, and 316ss. Motors to drive the element rotation during cleaning are available in a variety of horsepower/voltage ratings, and various enclosures, thereby ensuring adaptability to virtually any service environment.

For more information on the Metaledge® product technology, see this link- <http://purolator-facet.com/Markets/Chemical-Process/Metaledge-Filters>