



POROPLATE® FILTERS FOR POWER GENERATION

APPLICATION-ENGINEERED TO OPTIMIZE YOUR SYSTEM

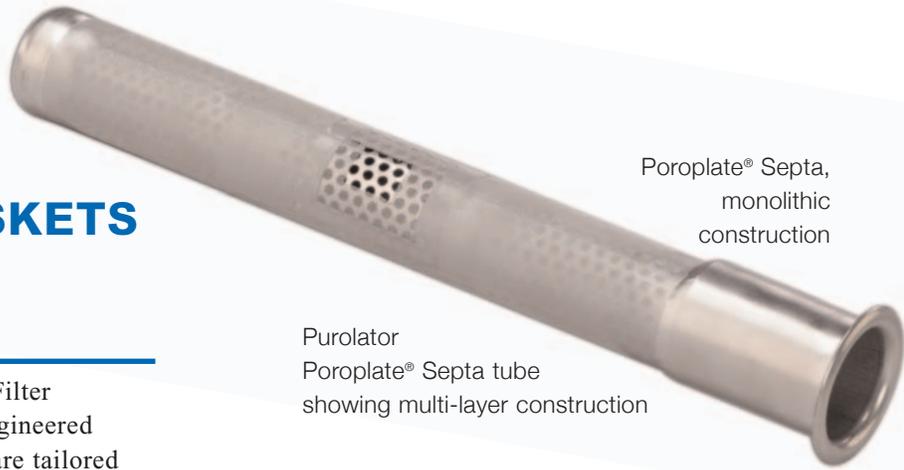
FILTER SEPTA FUNDA-TYPE FILTERS RESIN TRAPS AND BASKETS

APPLICATION-ENGINEERED

Purolator Facet's Poroplate® septa, Pressure Leaf Filter Trays, Resin Traps and Baskets are application engineered and manufactured to optimize your systems, and are tailored to your specific operating conditions and requirements. Because of their superior flow distribution, Purolator septa are designed to extend run times, maximize the use of ion exchange resins, increase precoat uniformity, and improve backwash efficiency, with no measurable resin bleed-through. Poroplate® septa precoat uniformly, without the need for a cellulose precoat. By increasing the run time between backwashing, and decreasing the requirement for cellulose precoating, the radwaste volume is reduced. The result — an optimized filter demineralizer F/D system.

ENGINEERING SOLUTIONS

The exclusive mechanical and metallurgical engineering capabilities of the Purolator Power Generation Group involve applying the latest CAD solid modeling and drafting programs. These, and dedicated filter septa test equipment, are used to custom design and manufacture septa, meeting the filtration and strength requirements of the nuclear power generation industry. The Purolator dedicated septa test equipment allows testing of full length septa, including visual examination of precoat and backwash performance under the actual operating parameters of your plant. These capabilities, coupled with Purolator's excellent QA/QC program and manufacturing capability, provide you with septa designed to optimize your system's performance. For either new installations or direct replacement retrofitting of Graver, DeLaval or Croll Reynolds septa, the Purolator Power Generation Group is your resource for flexible, application-matched filtration solutions.

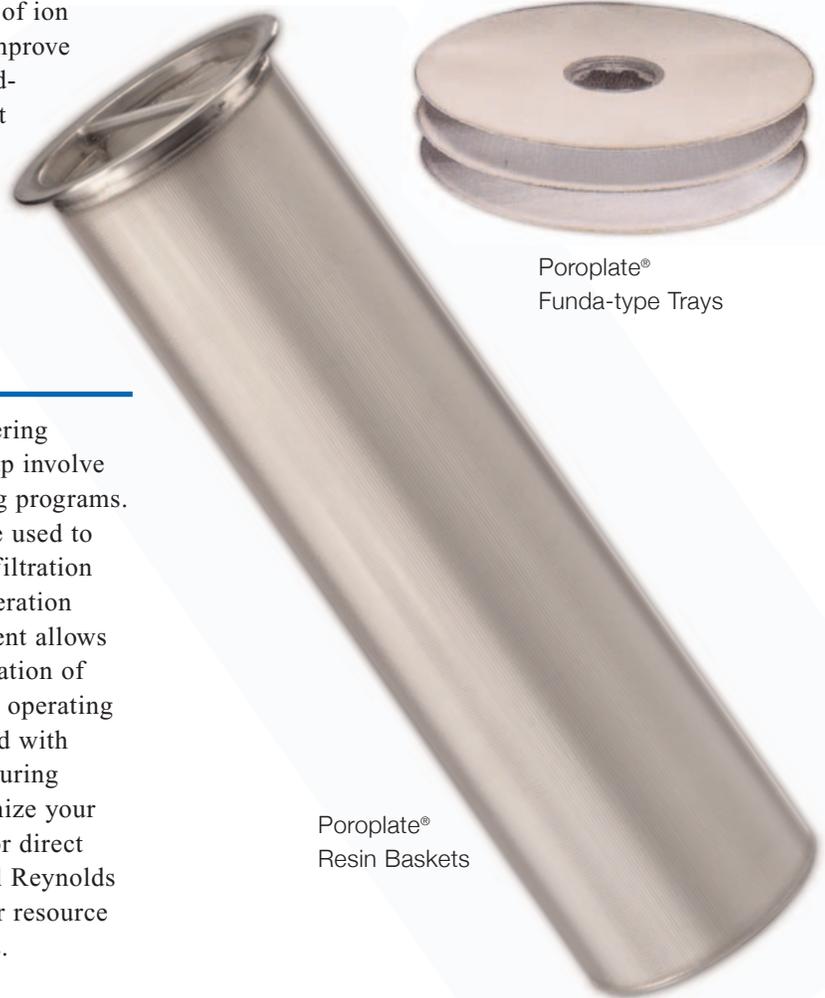


Poroplate® Septa,
monolithic
construction

Purolator
Poroplate® Septa tube
showing multi-layer construction



Poroplate®
Funda-type Trays



Poroplate®
Resin Baskets

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MONOLITHIC CONSTRUCTION

The key component of Poroplate® septa, as well as many of the resin traps and baskets, is the diffusion-bonded, stainless steel wire-cloth and perforated-plate laminate. Poroplate® filtration products are available in a variety of filtration ratings, all providing low differential pressures and high collapse strength. Poroplate® media are readily constructed in cylindrical tubes or custom fabrications for pressure leaf filter retrofits or resin traps. The high strength and corrosion resistance of Poroplate® septa provide for enhanced precoating, aggressive backwashing and extended service life.

TUBE BUNDLE ASSEMBLIES

Septa are commonly provided in complete tube bundle assemblies. This enhances the installation and removal of septa from the filter demineralizer to reduce installation cost and associated soft labor charges. In nuclear plants, the associated savings as a result of reduced radiation exposure is dramatic. Standard designs are available for top and bottom tubesheet assemblies.

SEPTA APPLICATIONS

REACTOR WATER CLEAN-UP (RWCU)

Purolator Poroplate® diffusion-bonded wire mesh filter septa provide a strong, durable support for enhanced resin precoating/flow distribution and efficient, aggressive backwashing. The monolithic design and stainless steel construction of the Poroplate® filter septa allow use of "all resin" precoats without detectable resin leakage. This leads to extended run times, higher decontamination factors, reduced spent resin disposal volumes and lower operating costs.

LIQUID RADWASTE FILTER DEMINERALIZERS (F/D)

Poroplate® filter septa optimize F/D performance. Application-engineered to site-specific solids/crud loading levels, Poroplate® septa extend run times in floor and equipment drain installations. Fit for severe service, Poroplate® septa design, materials and manufacturing provide the structural integrity required for repeated, high pressure backwashing. The Poroplate® medium is also a field proven retrofit for Funda-type spinning disc filters.

CONDENSATE FILTER DEMINERALIZERS (F/D)

In condensate filter and polishing systems, Purolator Poroplate® stainless steel diffusion-bonded filter septa withstand high temperature (135°F+) environments, which are inappropriate for polypropylene materials. Superior flow distribution leads to increased resin utilization, which decreases disposal costs, Poroplate® filter septa provide economical, long life in these relatively high flow-rate temperature applications.

FUEL POOL CLEAN-UP FILTER DEMINERALIZERS (FPCU F/D)

Purolator engineering and design flexibility provide application-matched Poroplate® septa for dual use in fuel pool and radwaste services, if required. Poroplate® septa maintain adequate water quality to minimize spent fuel rod contamination and radiation exposure to the operators.



Benefits Include:

- High strength and durability—compatible with rigorous backwash methods
- Excellent resin precoatability and retention
- Ease of cleaning by backwashing (surface media)
- Low pressure drop
- Elimination of resin leakage
- Lower operating costs

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