The Proflow II Pharmaceutical Liquid Bacterial Retentive (LBR) cartridge is designed for those who require sterile pharmaceutical fluids and is validated to provide sterility through the retention of *Brevundimonas diminuta* per HIMA guidelines. Along with its sterilizing-grade performance, this cartridge exhibits high air and fluid flow rates due to the 9.3 ft² of expanded PTFE membrane it contains.

Proflow II-LBR cartridges are manufactured in a certified Class 10,000 cleanroom where they are flushed with non-pyrogenic deionized water and 100% integrity tested as well as serialized to provide complete product traceability.

**Contact Information:**

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**Benefits**
- Fully validated for sterilizing-grade performance
- Broad chemical compatibility allows use with most pharmaceutical solvents
- Long service life minimizes change-out frequency
- Low differential pressure reduces energy costs
- Integrity tested to ensure quality
- Serialized for immediate traceability

**Applications**
- Solvent sterilization
- Extraction / crystallization solvents
- Hot WFI filtration
- Aseptic packaging air / sterile air supply
- Fermenter / tank vents
Proflow™ II Pharmaceutical LBR
Pleated PTFE Membrane Cartridge for Pharmaceutical Solvent Sterilization

**Air Flow Rates***
- 10 inch (250mm) cartridges
  - Liquid: 1.9gpm/psid
  - (10.43 lpm/100 mbar)
- 5 inch (130mm) cartridges
  - Liquid: 1.0gpm/psid
  - (5.5 lpm/100 mbar)

*Air at 75°F (24°C) and an inlet pressure of 15 psia (1 bar); liquids with a viscosity of 1 cp

**Materials of Construction**
- Membrane: PTFE
- Support layers: Polypropylene
- Structure: Polypropylene

All components meet USP XXIII Class VI-121°C criteria and are thermally bonded to assure integrity and minimize extractables.

**Effective Filtration Area**
- 10 inch (250mm) cartridges
  - 9.3 ft² (0.86 mm)
- 5 inch (130mm) cartridges
  - 4.6 ft² (0.43 mm)

**Bacteria Retention**
Proflow II LBR cartridges will provide a sterile effluent when challenged with greater than 10⁷ CFU of *Brevundimonas diminuta* per cm² of EFA in accordance with the test methodology recommended by HIMA and defined by ASTM method F838-05.

**Steam Sterilization**
Cartridges may be steamed or autoclaved for over 20 one-hour cycles @ 275°F (145°C). Cartridges may also be chemically sanitized in place using common sanitizing agents.

**Maximum Differential Pressure**
- **Forward:**
  - 80psid (5.5 bar) @ 75°F (24°C)
  - 40psid (2.8 bar) @ 180°F (82°C)
- **Reverse:**
  - 50psid (3.4 bar) @ 75°F (24°C)

**Ordering Information**
Each cartridge is identified with a product number, pore size, and lot number for traceability.

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**TECHNICAL SUPPORT and PRODUCT ORDERING**
Parker Process Advanced Filtration provides unsurpassed product consistency and cost-efficiency for our customers. Our experienced professionals can help you select the right solution for your application. For more information or to place an order, contact your local distributor. Information on product specifications, applications and chemical compatibility can be found on our web site at www.parker.com or through your nearest Parker Process Advanced Filtration office. Parker Process Advanced Filtration designs and manufactures an extensive line of innovative solutions for specific applications in Biopharmaceutical, Microelectronics, Food & Beverage, Industrial and Chemical industries.

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