

High Surface Area Pleated Micro-Fiberglass Cartridges for Critical Processes

Description

The ACCU-CLEAR pleated cartridge line has been developed to meet the process needs and throughput requirements of the pharmaceutical, food and beverage, electronics, chemical, and other critical industries. This high performance range of filter cartridges are constructed of pleated micro-fiberglass filter medium laminated to a non-woven polyester support. The uniform pore structure of the filter medium provides consistent absolute removal of particles from 0.6 to 40 µm. The high surface area of ACCU-CLEAR filters ensure long life cycles and low initial pressure drops.

Cartridge hardware components are constructed of high purity polypropylene materials that can be safely used in critical process applications. ACCU-CLEAR cartridges are constructed and assembled in a clean room environment to minimize the possibility of contamination. ACCU-CLEAR Series cartridges are available in a wide range of configurations to fit most commercially available filter housings.



Benefits

- High surface area filter cartridges constructed of pleated micro-fiberglass media provide absolute particle retention and long on-stream life cycles.
- Absolute removal ratings available from 0.6 to 40 µm.
- The filter medium with controlled pore sizes and stringent quality control standards guarantee a uniform matrix for effective, consistent filtration performance.
- Materials of construction provide wide chemical compatibility in most liquid and gas applications.
- All cartridges are constructed and assembled in a clean room environment to ensure minimal particle contamination.
- High strength, polypropylene components and advanced thermal bonding techniques ensure cartridge integrity under severe operating conditions.
- No adhesives, binders, lubricants, or coatings are used in the manufacturing process to ensure the lowest levels of leachables or extractables.
- Pharmaceutical grade offers 100% lot traceability.

Applications

- Chemical Processing
- Food and Beverage Processing
- Membrane Pre-filtration
- Paints, Coatings, and Inks
- Solvents
- Pharmaceuticals
- Wine Clarification
- Sterile Air Filtration

Materials of Construction

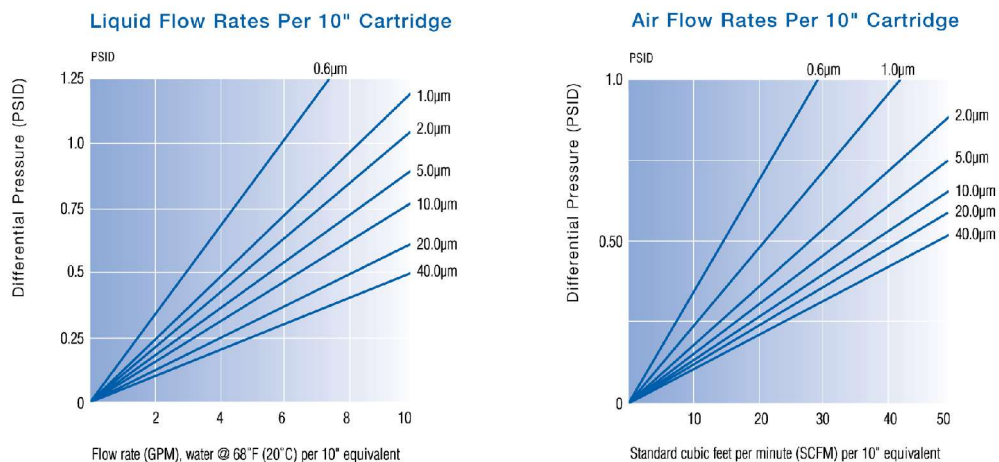
| | |
|-----------------------------------|-------------------------------------------------------|
| Media | Borosilicate Microfiberglass with Acrylic Binder |
| Support Material | Polyester |
| Center Core | Polypropylene |
| Cage | Polypropylene |
| End Caps | Polypropylene |
| Gaskets/O-Rings | Ethylene Propylene, Silicone, Buna-N, Viton®, Teflon® |
| Outside Diameter (nominal) | 2.7" (6.8 cm) |
| Lengths (nominal) | 10, 20, 30, 40" (25.4, 50.8, 76.2, 102 cm) |

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 ACCU-CLEAR is a trademark of Clarcor, Inc.*

Performance Specifications

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|------------------------------|--------------------------------------------------------------------------------------------------|
| Micron Ratings | 0.6, 1, 2, 5, 10, 20, 40 μm absolute |
| Differential Pressure | to 60 psid (4.08 bar) @ 77° F (25° C) to 30 psid (2.04 bar) @ 140° F (60° C) |
| Sterilization | ACCU-CLEAR cartridges may be autoclaved for 30 minutes at 121°C under no end loading conditions. |
| Toxicity | ACCU-CLEAR Series filter media comply with USP XXII Standards for Class VI-121 Plastics. |

Flow Rates vs Differential Pressure



Ordering Information

| Cartridge Media Type | Grade | Series | Nominal Length | Cartridge Style | Gasket or O-Ring Material | Utilization |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------|
| DG | 006 | S | A | 3 | 03 | N |
| DG = Micro-fiberglass Filter Media | 006 = 0.6 μm 010 = 1.0 μm 020 = 2.0 μm 050 = 5.0 μm 100 = 10.0 μm 200 = 20.0 μm 400 = 40.0 μm | S = Standard P = Pharmaceutical B = Beverage | A = 10" B = 20" C = 30" D = 40" | 2 = DOE 3 = 222/Flat 4 = Internal 020 Ring/Flat 6 = DOE/Internal 120 Ring 6x = SOE/Internal 213 Ring 7 = 226/Fin 7a = 226/Flat 8 = 222/Fin | 01 = EPR 03 = Silicone 04 = Buna-N 08 = Viton 09 = Teflon Gasket 11 = Teflon/Viton | N = Non-Steam Sterilizable S = Steam Sterilizable |