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Velcon Process
A Division of Velcon Filters, LLC
Chemflo Products • Performance Separations™

HF & PB Series



CHEMFLO PRODUCTS • PERFORMANCE SEPARATIONS™

HF Series – High Capacity Filters



**Technology
Designed
for High
Flow
Process
Applications**



CHEMFLO PRODUCTS • PERFORMANCE SEPARATIONS™

HF SERIES

High Flow Filter Systems

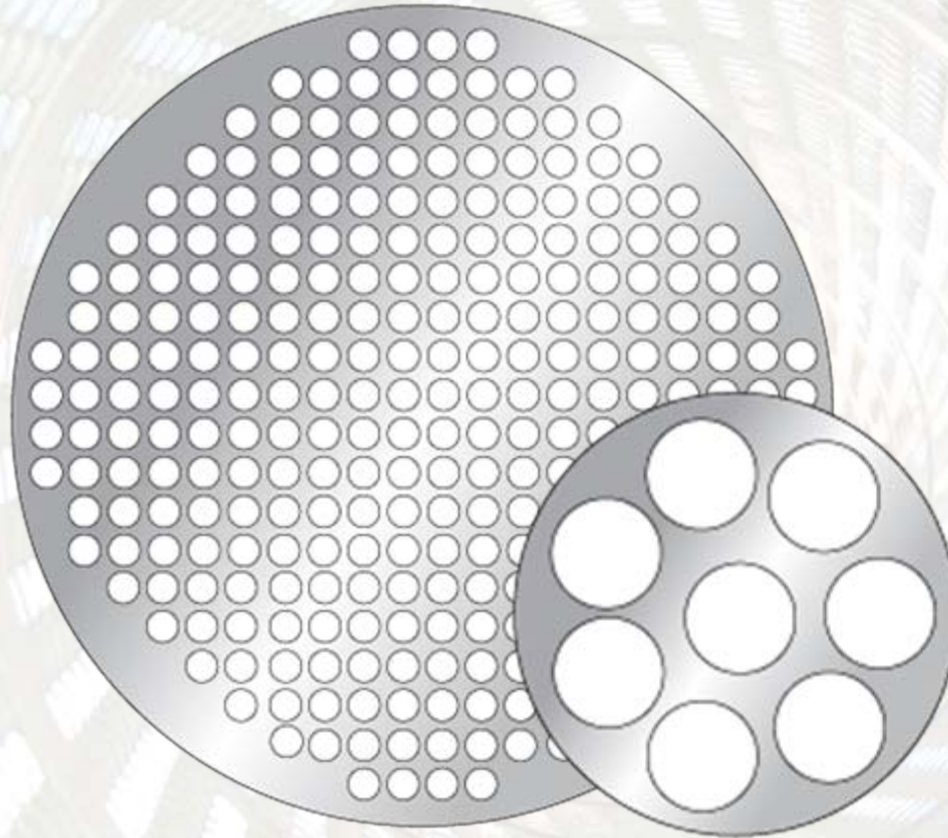


Proprietary **HF**
Depthflo™ Filter
Medias developed
and tested for
increased dirt
holding at high flux
rates.

Elements Available
in 40", 44" and 60"
lengths.



Fewer Elements = Lower Costs



Each HF660 element replaces approximately 25 meltblowns
Each HF660 element replaces approximately 35 stringwounds

Features:

- **Maximum Surface Area**
- **High Performance Media**
- **Absolute-rated Filtration**

Benefits:

- **More Dirt Holding**
 - Upfront and Operating Cost Savings
 - Smaller Vessels – Fewer Elements
- **3-D “Depthflo” Medias**
 - Reduced Blinding
 - Superior Performance at High Flows
- **Protects System**
 - Enhances Overall System
 - Protects Equipment, RO Membranes, and Final Products

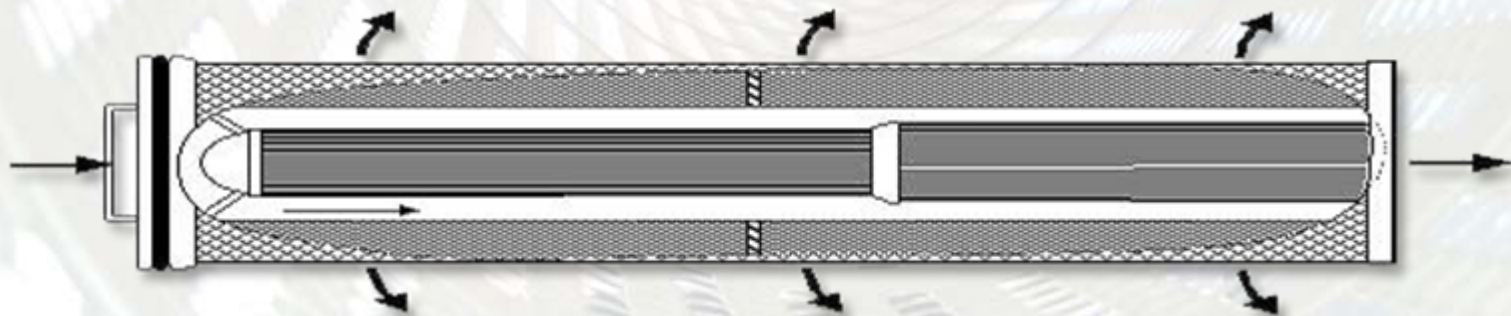
New Technology for High Flows

Patent-pending Design: “Filter-Inside-a-Filter”

- **Maximum Surface Area for Filter Media**

Element optimized for high flow rates

- **Flow Channels**
- **Drainage Layers**



HF Series – Applications

HF Series Filtration Systems

- **Hydrocarbons**
- **Amine at Refineries**
- **R. O. Pre-filters/Desalination**
- **Produced Water**

What to look for:

- **Flow rates over 300 gpm**
- **Efficiency needs**



PB Duraflo

- **Fits existing bag filter vessels which accept size 1 and size 2 filter bags**
 - **No additional capital expenses required**
 - **Option of running conventional bags for short batches, for specific products, or for severe upsets**
- **Retrofit Many Common Bag Filter Housings**
- **Fewer Element Change-outs**
- **Lower Maintenance Costs**
- **Lower Disposal Costs**
- **Smaller Filter Vessels**
- **Applications: Food and Beverages, Syrups and Flavorings, Amines, Glycol, Chemicals, Reverse Osmosis Pre-filtration, Coolant Water and Process Water, Paints and Coatings**



Filter Life:

- **42 to 60 square feet of filter media compared to 3.6 to 5 square feet in a standard bag filter**

High Flow Rates:

- **Flow Rates up to 150 gpm at 1 cP (dependent on inlet nozzle diameter)**

Efficiency:

- **Absolute-rated Filter Medias**
- **Pleated Microfiber Media**

Tailored Products:

- **“HF” Series for flow rates up to 150 gpm in water, and up to 300 gpm in light hydrocarbons**
- **“HV” Series for Viscosities up to 200 cP**
- **“HT” Series for Temperatures up to 450° F**
- **Products designed specifically for**
 - **Aromatics/Solvents**
 - **Low and High pH**
 - **Paints and Coatings**
 - **Hydrocarbons, and**
 - **Petrochemical Intermediates**

Medias:

- **Microfibers – Polypropylene, Nylon 6,6, Polyester, and Microfiberglass**
 - **Duraflo Medias**
 - for Best Surface Area and Sharp Particle Cut-offs
 - **Depthflo Medias**
 - for Removing Gels and Deformable Particulate
- **Non-wovens – pps (Ryton™) and Nomex™**
- **Monofilaments – nylon and polypropylene**
- **Felts – wide variety of commodity and engineered polymers**

“Optimized Products”

- **Products optimized for specific applications**
- **Customer involvement in design improvements**
- **Price and performance that fit the application**

Cost Savings

- **Competitive Prices**
- **Delivery Times**
- **Dirt Holding Capacity**
- **High Efficiency**
- **Application Engineered Approach**
- **HF Series High Capacity Filters**



Partnering – Tailoring – High Capacity Medias

- **Competitive prices**
- **Delivery times**
- **Dirt holding**
- **Efficiency**
- **Application engineered approach**
- **Together we add value**