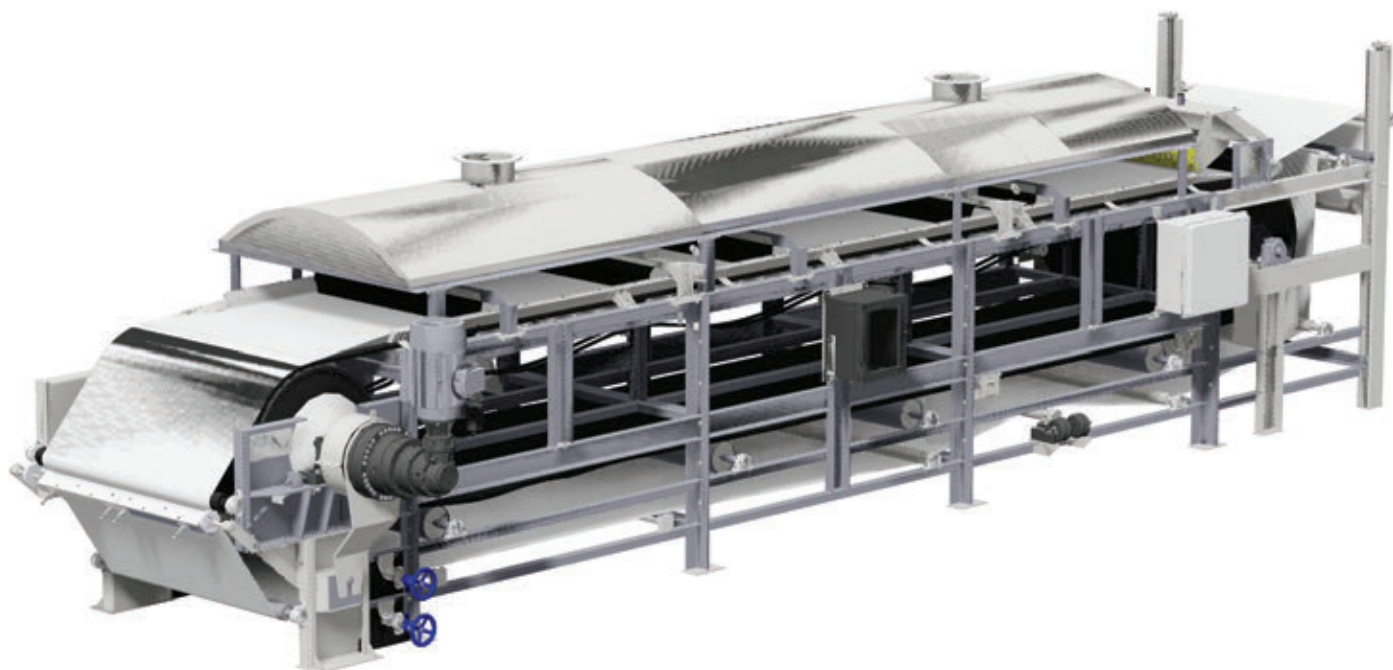




**COMPLETE VACUUM FILTRATION SYSTEMS,  
INSTALLATION AND FIELD SERVICES**

**TOTAL ENGINEERED FILTRATION SOLUTIONS**

# Horizontal Belt Vacuum Filters (HBVF)



The Micronics Engineered Filtration Group is a leader in Vacuum Filtration Solutions. Our NFM Horizontal Belt Vacuum Filters (HBVFs) are available in a range of standard sizes, or they can be custom-sized for your application. The main advantages of an HBVF are its continuous operation, ability to process a wide variety of materials and consistencies, and its superior cake washing.

In addition to offering fully-assembled HBVFs, the Micronics Engineered Filtration Group offers customized modular construction.

Common Applications for Horizontal Belt Vacuum Filters (HBVFs):

- **Mineral Processing**
- **Gypsum**
- **Pharmaceuticals**
- **Catalyst**

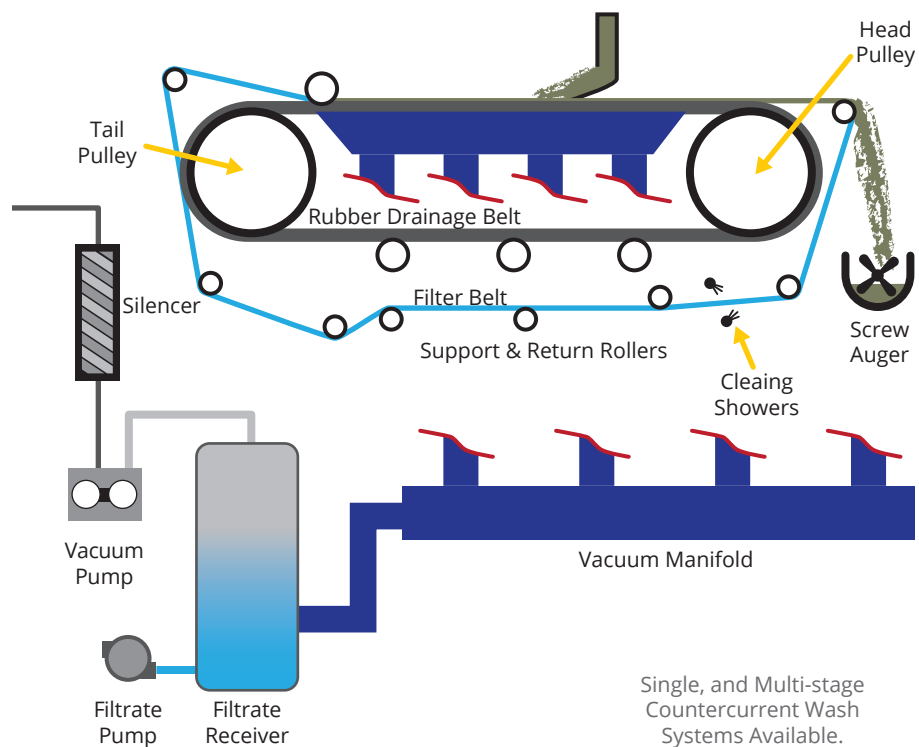
Our HBVFs achieve low moisture content with high-quality rubber drainage belts and sealing systems.

Our HBVFs can be equipped with one or more cake wash stages in standard or counter-current wash cycles to allow for the removal/recovery of the finest particles.

Our HBVFs are designed with easily-replaceable wear items to allow the filter to maintain peak performance with minimal effort. Additionally, our drop-down vacuum pans are unrivaled in the industry and allow for quick turnarounds.

Our Self-Cleaning Shower Bars wash the media from both the top and bottom to maximize performance and extend filter media life.

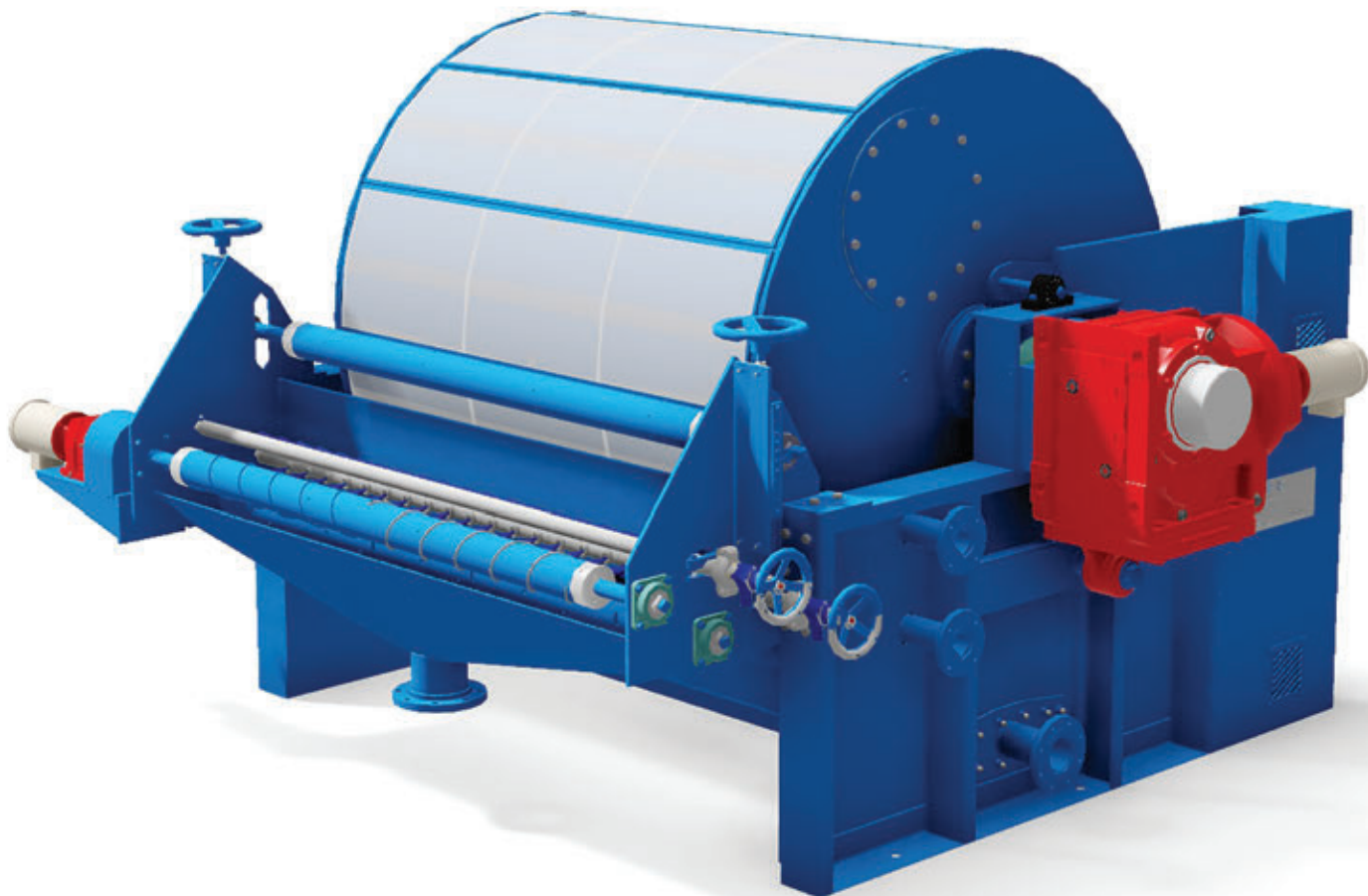




| Drum              | X-ref Size             | Approx.<br>Filtration<br>Area (SF) | Approx.<br>Length | Approx.<br>Width | Approx.<br>Height |
|-------------------|------------------------|------------------------------------|-------------------|------------------|-------------------|
| <b>HB1208SS</b>   | 1' x 8'                | 5                                  | 12'-2             | 5'-4             | 4'-3              |
| <b>HB2412SS</b>   | 2' x 12'               | 18                                 | 18'-7             | 6'               | 7'-4              |
| <b>HB4816SS</b>   | 4' x 16'               | 52                                 | 22'-7             | 8'               | 7'-4              |
| <b>HB4824SS</b>   | 4' x 24'               | 84                                 | 31'-7             | 8'               | 7'-4              |
| <b>HB4830SS</b>   | 4' x 30'               | 108                                | 37'-7             | 8'               | 7'-4              |
| <b>HB7946WB</b>   | 2M x 25M <sup>2</sup>  | 269                                | 60'               | 9'-4             | 9'-6              |
| <b>HB7987WB</b>   | 2M x 50M <sup>2</sup>  | 538                                | 100'              | 9'-4             | 9'-6              |
| <b>HB11892WB</b>  | 3M x 80M <sup>2</sup>  | 861                                | 106'              | 12'-8            | 9'-6              |
| <b>HB118114WB</b> | 3M x 100M <sup>2</sup> | 1076                               | 126'              | 12'-8            | 9'-6              |



# Rotary Drum Vacuum Filters (RDVF)



Our NFM brand of Rotary Drum Vacuum Filters (RDVFs) are available in a range of standard sizes and can be outfitted with a number of different discharge arrangements from a simple scraper blade with blow back, to a belt discharge system. We also manufacture advancing knife discharge/precoat systems for filtering fine particle sizes.

Common Applications for Rotary Drum Vacuum Filters (RDVFs) are:

- **Corn Gluten, Starch**
- **Pigments**
- **Mineral Processing**
- **Gypsum**
- **Pharmaceuticals**
- **Catalyst**
- **Salt water**
- **FGD Sludge**

Our RDVFs provide a large effective filtration area in a compact footprint.

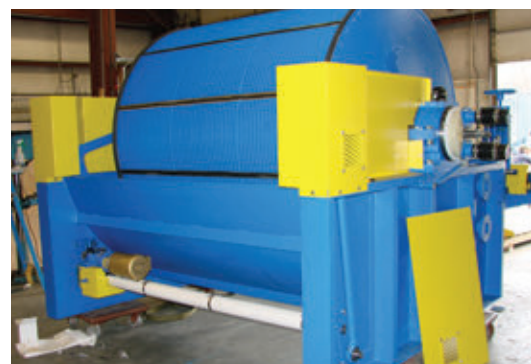
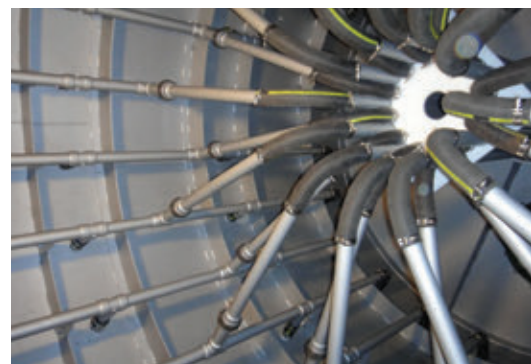
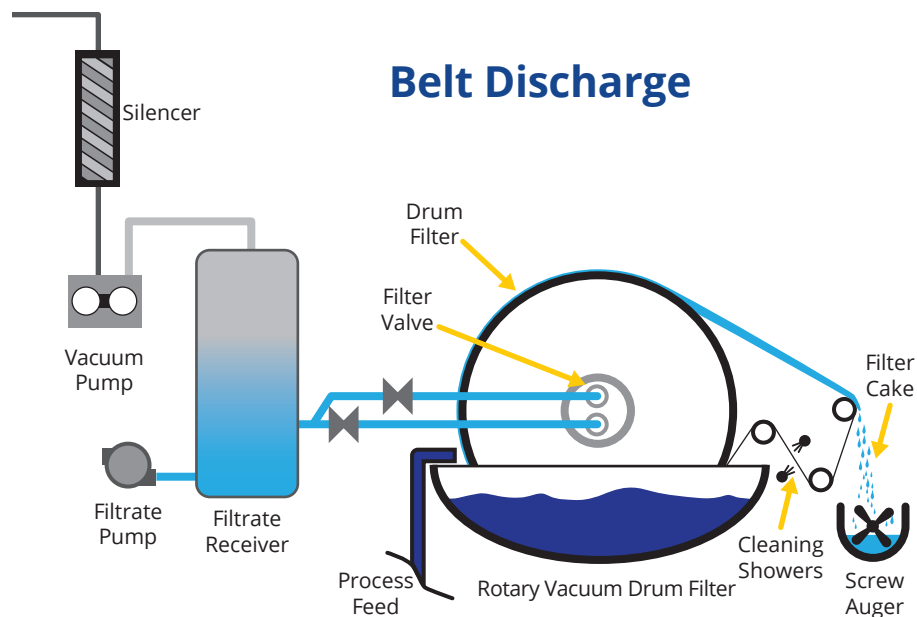
Our RDVFs can be outfitted with a single stage wash station as well as multiple slurry feed designs.

By compartmentalizing the bridge blocking within the positive contact valve, a sharp separation from mother liquor and wash stage filtrate can be achieved.

The Micronics Engineered Filtration Group designs our RDVFs with easily-replaceable wear components including drainage grids, valves, wear and pipe plates, and internal drum piping.

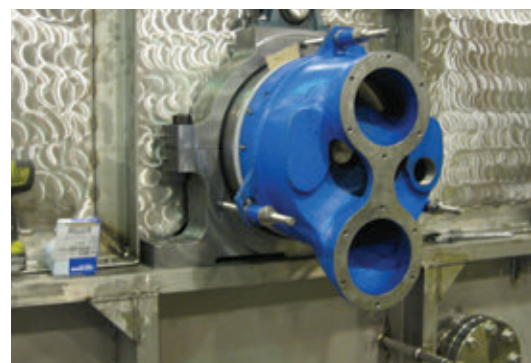
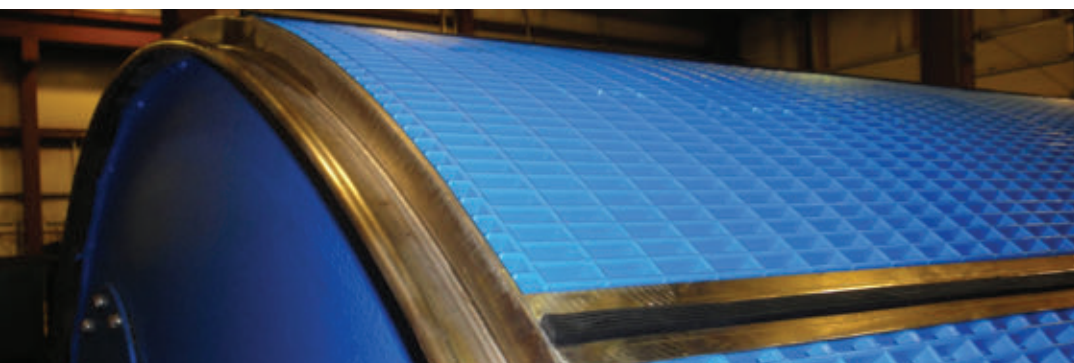
For applications requiring vapor isolation, enclosed units are available.



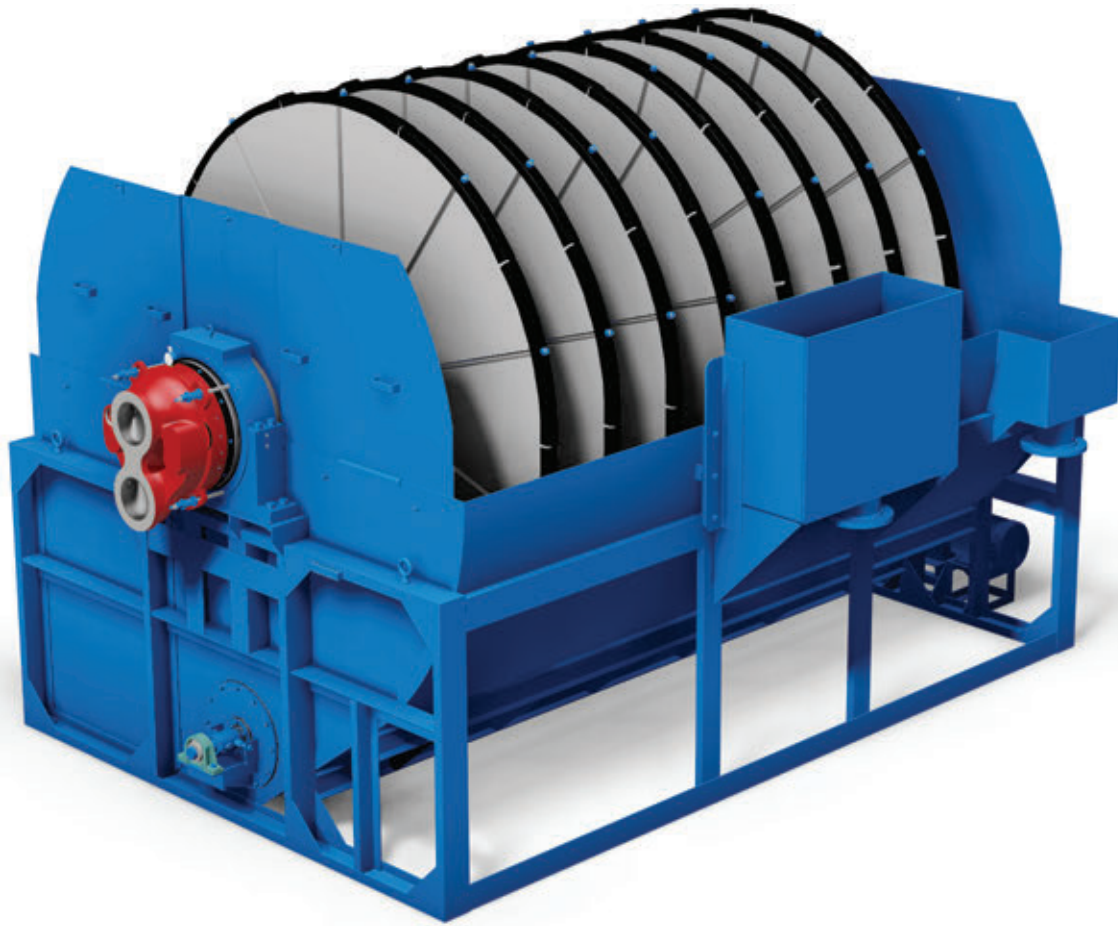


| Drum      | X-ref Size  | Approx. Filtration Area (SF) | Discharge (xx) |
|-----------|-------------|------------------------------|----------------|
| RD0103xx  | 1' × 3'     | 9                            | BB, KB, RD, BD |
| RD0303xx  | 3' × 3'     | 28                           | BB, KB, RD, BD |
| RD0408xx  | 4' × 8'     | 100                          | BB, KB, RD, BD |
| RD0606xx  | 6' × 6'     | 113                          | BB, KB, RD, BD |
| RD0808xx  | 8' × 8'     | 200                          | BB, KB, RD, BD |
| RD0810xx  | 8' × 10'    | 250                          | BB, KB, RD, BD |
| RD0812xx  | 8' × 12'    | 300                          | BB, KB, RD, BD |
| RD1212xx  | 12' × 12'   | 452                          | BB, KB, RD, BD |
| RD1216xx  | 12' × 16'   | 603                          | BB, KB, RD, BD |
| RD1218xx  | 12' × 18'   | 679                          | BB, KB, RD, BD |
| RD1220xx  | 12' × 20'   | 754                          | BB, KB, RD, BD |
| RD1224xx  | 12' × 24'   | 905                          | BB, KB, RD, BD |
| RD13636xx | 13'-6 × 36' | 1527                         | BB, KB, RD, BD |

Discharge Key: BB - Doctor Blades, PD - Precoat, RD - Roll, BD - Belt



# Disc Vacuum Filters (DVF)



The Micronics Engineered Filtration Group and trusted NFM brand has years of experience in designing engineered vacuum filters customized to your specifications and optimized for your application.

Our Disc Vacuum Filters (DVF) are available in a range of standard and custom sizes.

Common Applications for our Disc Vacuum Filters are:

- **Alumina**
- **Mining and Mineral Processing**
- **Power Generation**
- **Steel Manufacturing**
- **Wastewater**

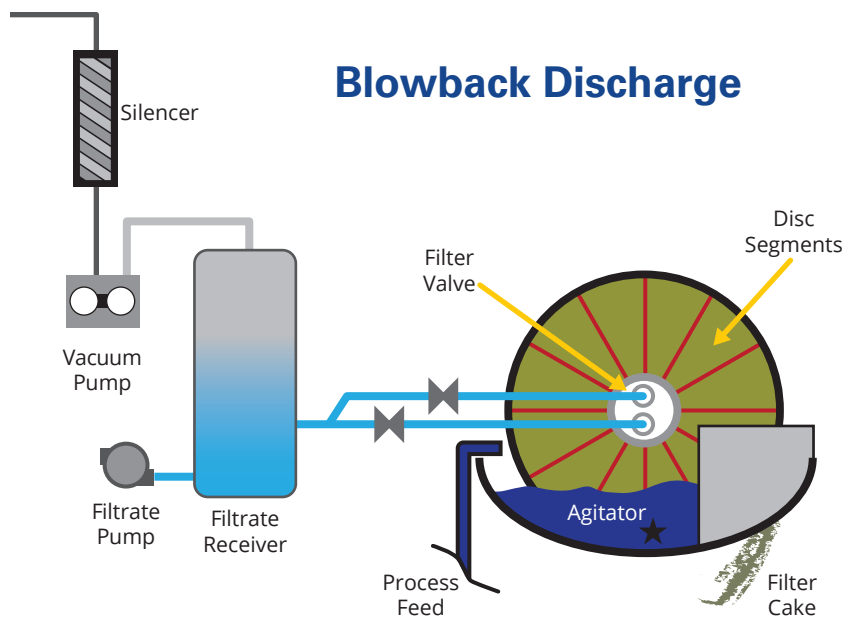
Our Disc Vacuum Filters take advantage of the high amount of effective filtration area in a compact footprint.

Our Disc Vacuum Filters are commonly used in Mining & Mineral Processing, or where the slurry content has a high specific gravity.

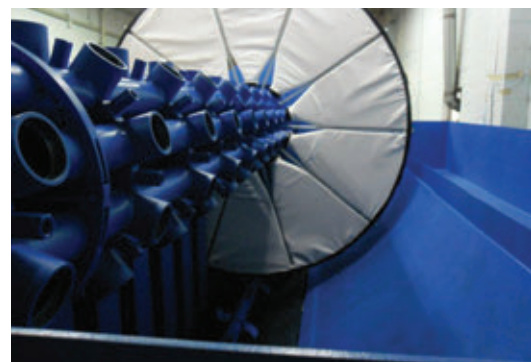
The Micronics Engineered Filtration Group designs our Disc Vacuum Filters with easily-replaceable wear components including valves, filtrate tubes, wear and pipe plates, sectors, and sector components.

High-performance, abrasion resistant vat lining, agitator assembly, and filtrate tubes are available.





| Disc            | X-ref Size           | Approx. Filtration Area (SF) | Disc Qtys (xx)                     |
|-----------------|----------------------|------------------------------|------------------------------------|
| <b>DF04xx</b>   | Ø4' x 1-4 discs      | 22/disc                      | 01, 02, 03, 04                     |
| <b>DF06xx</b>   | Ø6' x 3-8 discs      | 50/disc                      | 03, 04, 05, 06, 07, 08             |
| <b>DF0810xx</b> | Ø8'-10 x 3-10 discs  | 110/disc                     | 03, 04, 05, 06, 07, 08, 09, 10     |
| <b>DF106xx</b>  | Ø10'-6' x 4-12 discs | 155/disc                     | 04, 05, 06, 07, 08, 09, 10, 11, 12 |



The Micronics Engineered Filtration Group prides itself on having skilled and adept technical experts who can help you select and design the right vacuum filtration equipment for your process including Horizontal Belt Vacuum Filters, Rotary Drum Vacuum Filters, and Disc Vacuum Filters.

Our Complete Vacuum systems can include:

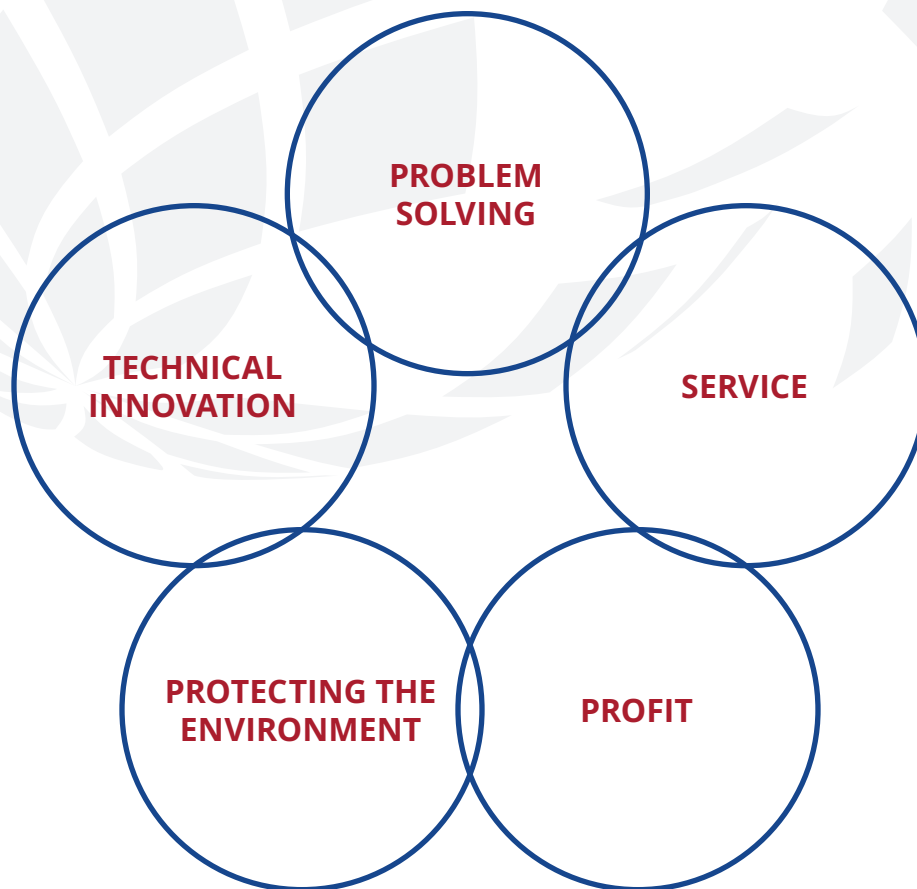
- **Vacuum Pumps and Receivers**
- **Filtrate Pumps**
- **Precoat Tanks**
- **Controls and Instrumentation**

The Micronics Engineered Filtration Group has highly-trained, experienced and trusted Field Service crews available to perform Mechanical and Performance Inspections on all Vacuum Filtration equipment. In addition to servicing our NFM brand equipment, the Micronics Engineered Filtration Group services all other OEM brands of vacuum filters as well.

The Micronics Engineered Filtration Group's Service Crews maintain several National Safety certifications such as MSHA and TWIC. We understand the importance of getting your job done safely, correctly, and on time. Please reach out to the Micronics Engineered Filtration Group to schedule your yearly inspection.

# MICRONICS

ENGINEERED FILTRATION GROUP



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SFM



AFT

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NFM

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