

Pressure Leaf Filters

Typical Applications:

- Salts and Sugar Processing
- Drinking and Waste Water
- Breweries and Wineries
- Food and Beverage
- Chlor-Alkali Industry
- Pharmaceuticals
- Fine Chemicals
- Petrochemicals
- Cooling Water
- Fruit Juices
- Edible Oils
- Rendering



For more information
contact one of our Sales Engineers
sales@howesfiltration.com
howesfiltration.com

S. Howes, Inc.
Phone: (716) 934-2611
Toll Free: (888) 255-2611
Fax: (716) 934-2081
© 2006 S. Howes, Inc., All rights reserved.






Pressure Leaf Filters



Howes Pressure Leaf filters are used for the separation of suspended solids (up to 1%) from a liquid stream (up to 160 gpm). The units are constructed and stamped A.S.M.E. code vessels. This type of equipment is commonly termed "cake filtration" because the build up of solids forms a cake that acts as a filter medium. The filter leaves provide a structure on which the cake can form, as well as a sufficient cross sectional drainage area that enables the filtered liquid to be evacuated as quick as possible. Depending on the characteristics of the solids, the cake can be discharged either as a wet mass or a dry mass - which in turn determines the discharge design of equipment.

| FILTER TYPE | STANDARD FEATURES | OPTIONAL FEATURES |
|---|--|--|
| Dry Cake Discharge Horizontal Tank Filter (Type DHC) | 36", 48", 60", & 72" Diameter vessels are available; All leaves are the same size for easy cleaning & inspection access; Air driven vibrator; All piping to stationary front head (no connections to break); External wheels for easy, quick tank retraction and simple maintenance; Waist high frame; Bolted tank closure | Available in various materials of construction; High profile frame, Electrically driven hydraulic pump, Hydraulic shell retraction, Non-metallic linings, Automated operation; Quick open/close tank closure |
| Wet Cake Discharge Horizontal Tank Filter (Type HC) | 36", 48", 60", & 72" Diameter vessels are available with oscillating sluicers; All leaves are the same size for easy cleaning & inspection; All piping to stationary front head (no connections to break); External wheels for easy, quick tank retraction and simple maintenance; Waist high frame; Bolted tank closure | Available in various materials of construction; Pneumatic or hydraulic sluicing operation; Optional inlet header or baffle for better cake layer efficiency; Quick open/close tank closure |
| Dry Cake Discharge Vertical Tank Filter (Type DV) | 18", 24", 30", 36", 42", 48", 54", & 60" Diameter vessels are available; Cover secured with swingbolts and hex nuts; No piping connections to break; Supported on brackets; Quick opening discharge; Full opening bottom for fast cake discharge; Air driven vibrator for leaf cleaning; Minimum floor space required | Available in various materials of construction; Quick opening top cover; Legs or working platform instead of standard support brackets; Tailings leaf discharge; External discharge manifold; Optional cone bottom discharge |
| Wet Cake Discharge Vertical Tank Filter (Type V) | 18", 24", 30", 36", 42", 48", 54", & 60" Diameter vessels are available; Handwheel operated lift cover; Leaf spacers prevent leaves from rising out of manifold; No piping connections to break; oversized drain for fast discharge of sluiced cake; Flow pattern across bottom of tank prevents settling; Inlet baffle for balanced slurry distribution; Rugged cover closure; Cover secured with swingbolts and hex nuts | Available in various materials of construction; Hydraulically operated cover lift; Conical bottom; Bottom inlet; Quick opening top cover |
| Wet Cake Vertical Tank Horizontal Filter (Type VH) | 18", 24", 30", 36", 42", 48", 54", & 60" Diameter vessels are available; Sluice discharge eliminates disassembly time to open the tank; All leaves are the same for easy cleaning & replacement access; Eyebolt and hex nut closure | Available in various materials of construction; Optional dry cake discharge removes sluicers - each leaf is individually removed and cleaned; Tailings outlet |
| Pressure Nutsche | Custom manufactured to application | Available in various materials of construction; Custom manufactured to application |

FILTER LEAF OPTIONS

| SPOTWELDED | RIVETED | BOLTED | BAG STYLE | HEAVY DUTY (5-PLY) |
|--|---|---|--|--|
|  |  |  |  |  |
| This 3-ply construction is the most economical metallic leaf. It consists of a keyhole frame and 4 x 4 mesh drainage member with 24 x 110 P.D.W. screen. The whole system is then spotwelded together. | Similar to the first option, this 3-ply construction also consists of a keyhole frame and 4 x 4 mesh drainage member with 24 x 110 P.D.W. screen. However, this style is riveted together to facilitate screen replacement. | Like the first two options, this 3-ply construction also consists of a keyhole frame and 4 x 4 mesh drainage member with 24 x 110 P.D.W. screen. The bolted style allows for the quickest, most efficient screen replacement. | Standard for sluicing filters, this style is comprised of a keyhole frame with a tubular slit drainage member. Polypropylene netting is attached to the drainage member and the whole leaf is covered with a fabric bag. | This construction is heavier than the other options. An intermediate screen of perforated plate has been added to give a 5-ply construction. |

We provide interchangeable FSD and Duriron parts

S. Howes, Inc.
25 Howard St.
Silver Creek, NY 14136
howesfiltration.com

Phone: (716) 934-2611
Toll Free: (888) 255-2611
Fax: (716) 934-2081
sales@howesfiltration.com

