



Horizontal Filter Press



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HORIZONTAL SPARKLER TYPE S.S. FILTER PRESS

- Zero hold up (Reverse Flow) Sparkler Filter.
- Zero Hold up type sparkler filters work on reverse flow principle and are used for crystal clear filtration by filtering particles up to 1 micron size.
- Complete filtration of the batch without any holdup due to reverse flow of liquid hence large saving in time & cost.
- Back wash facility can be provided for continuous operations.
- No scavenger arrangement required.
- The cake, filter aid & solids remain totally enclosed allowing filtration of toxic, hazardous & solids remain totally enclosed allowing filtration of toxic, hazardous & explosive liquids.
- No contamination of internal surface of shell.

Technical Specification

(Reverse Flow Type)

Fitting : A Standard filter comes with inlet, outlet, pressure gauge, bypass, safety valve, sampler, pump & SS Trolley.

Operating Pressure : 3 to 5 Kg/ Cm²

Maximum Working : 100° - 200° C (Depending on filter media)

Note : The flow rate mentioned is in terms of water with 5% carbon and filter to poly propylene paper. Filtration rate may change depending on viscosity of liquids, quality of filter media and nature of solids in liquid to be filtered.

Salient Features

The range of Stainless Steel Sparkler type Filters ensures precisely the right filtration characteristics for all application in Chemical, Pharmaceutical, Beverages, distilleries & Food industries. It is manufactured from AISI 304-304L / 316-316L quality. All joints are argon arc welded and polished to mirror finish.

Type of pump depends upon the Chemical & Physical Properties of the liquid to be filtered. All necessary connection i.e. pressure gauge, safety valve and air vent valve are provided. Cartridge consists of horizontally arranged filter plates, perforated supporting screens, interlocking cups, center rod, tie rods & filter media. Sample taking device can be provided.

For Hot Filtration AISI 304/316 jacket is provided to shell for circulating heating media. Complete unit is mounted on S. S. trolley & fitted with Castor wheels for easy movement. The filter press is generally used to obtain clear filtrate. Specially designed scavenger plate for complete filtration are provided 18" & above models. If required actual testing can be carried out at our works, for which, require quantity of the liquid would be arranged by the customer; otherwise testing can be carried out with Water & insoluble carbon/ high flow.

Operation

The unfiltered liquid is fed into the filter under positive pressure, where liquid travels in downward direction & finds its way through opening sides of the Filter Plates.

As the liquid pressure increases, the filter media holds the foreign particles & allows only clear filtrate to pass through the central channel formed by interlocking pressure cups to the outlet. Filtration is continued until the cake holding capacity of the unit is reached or until rate becomes too slow due to cake resistance.

Special Note

Filtration rate depends on viscosity of liquids, quality of Filter Papers/ media & nature of sediments in liquids to be filtered. For 24" and above dia filter press, pump & motor are mounted on separate trolleys.



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ENGINEERS PVT. LTD.

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Vision is what gives directions to life energy - doing.
- Sri Sri Ravishankarji



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Dear Sir,

PROMAS, conceived with a vision, was established in the year 2001, - then like an energetic toddler learnt to stand erect and walk steadily through the ups and downs of present day engineering industries.

Now it is time to run and beat the pace of the WORLD.

Built on an area of 10,000 sq. ft. PROMAS office and the factory located at R-877, MIDC, Rabale, Navi Mumbai, is a 'state of the art' construction in this MIDC area.

Today PROMAS, a company with ISO 9001 certification and having a sales turnover of Rs. 100 million, is a name to reckon with for design and manufacture of a wide range of process equipment and systems for Pharmaceutical, Chemicals, Cosmetics and Bulk drug industries. The equipments are built right from Kilo Lab model to Plant scale sizes, as per cGMP / USFDA standards and with CE markings. The never-ending quest for technical innovation in the field and providing best quality products, supported by prompt service technicians earned us the stature that we enjoy today.

We take pride in having hundreds of satisfied clients in India and abroad, and see our vision being fulfilled everyday on the faces of our customers.

Enclosed please find a comprehensive list of our customers and also the product range that PROMAS can design, manufacture and deliver, meeting your stringent specifications and total satisfaction.

It would be interesting for you to note here that we also undertake to design and manufacture of all above product ranges, from Kilo Laboratory scale models to Plant scale models as per your requirement.

Should you require further information, kindly contact us without any hesitation, and we assure you of our prompt response soon we receive your call.

Thanking you, with regards.

B. B. Gatkal
Chairman



Curiosity is the mother of science
& wonder is the mother of spirituality.
- Sri Sri Ravishankarji



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List of Products



- . Jet Mill (Micronizer)
- . Double Cone Vacuum Dryer (RCVD)
- . Planetary Mixer, Cream Mixer, Shaving cream, Ointment, Toothpaste Mixer, Contra Rotary Mixer, Fryma Mixer.
- . Plough Shear Mixer, Ribbon Blender, Forberg Type Mixer, Mass Mixer & Screw Conveyor.
- . Conical Screw Mixer, Universal Mixer cum Dryer.
- . Rapid Mixer Granulation (RMG)
- . Multi Mill, Oscillating Granulator (Both Horizontal and Vertical)
- . Blenders (Double Cone / Octagonal / V-cone / Twin Shell / Cage Bin), Drum Blenders.
- . Sifters (Vibro / Turbo / Ultrasonic)
- . Fluid Bed Dryer, Air Tray Dryer.
- . Sparkler Filter Press, Homogenizer / Emulsifier, Stirrer.
- . Vibro Feeder
- . Coating & Polishing Pan.
- . Screw Feeder.
- . Screw Conveyor . Chocolate Ball Mill, (Attrition Mill).
- . Dosing System for application to powder and liquid etc.
- . Tanks and vessels for injection and syrup products as per GMP norm.
- . Over and above we offer complete turnkey projects from Kilo lab to plant Scale.

Note : For range of sizes / capacities / applications of a particular product, please refer to PROMAS technical bulletins, or call Sales Support Dept.

Machines manufactured and Projects executed by our associate concern, M/s. Chemac Equipments Pvt. Ltd., Mumbai.

- . Vacuum Tray Dryers (2- tray to 96-tray models)
- . Ribbon Blenders
- . R & D Pilot plants from 10 lits to 500 lits with oil heating and cooling system
- . Distillation / Fractionation columns under high vacuum.
- . Reactors from 10 liters to 25 kilo liters.
- . Agitated Vacuum Dryers (with cantilever shaft arrangement).
- . Chemical plants in turnkey projects.

Chemac undertakes and supplies complete turnkey projects for Talcum powder. Clients include Ponds India, Cavin Care and Ajamal Perfumes to name a few.

