



# S. S. ENGINEERING

Manufacturers & Exporters of Chemical Plants & Machinery



## FILTERS

- Sparkler Filter
- Spiral Filter

## HORIZONTAL PLATE FILTER PRESS SPARKLER FILTER



Filter press is used for clear filtration of Pharmaceuticals, Chemicals, Beverages, Food, Varnish, Resin and other industries. We Manufacture Filters in S.S. 304/ 316/ 316 L quality carbon steel internal with rubber lining. S.S.Engineering Horizontal Plate Filters gives Optimum recovery of Product with Quick change of Cartridge in totally enclosed system ensuring Low operating cost in various sizes viz. 8", 14", 18", 24" & 33". Filter press are also available with jacket arrangement for hot filtration.

### TECHNICAL DATA :

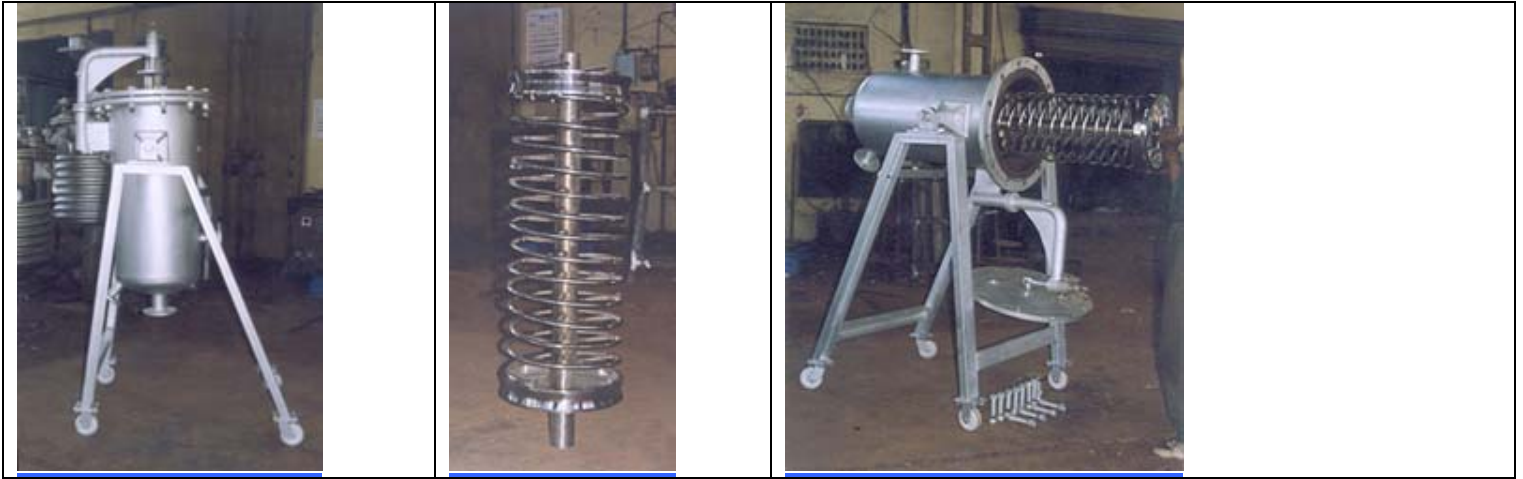
Dia of Plates	No. of Plates	Filter Area m <sup>2</sup>	Cake Space (Lit)	Flow Rate Lit/hr
8"	6	0.18	3.6	450
8"	8	0.24	4.8	550
8"	12	0.36	7.2	750
14"	8	0.75	22.5	1600
14"	10	0.93	27.9	2000
14"	12	1.12	33.6	2300
14"	16	1.5	45.0	2700
18"	10	1.5	30.0	3000
18"	15	2.3	46.0	4500
18"	23	3.5	70.0	7000
18"	30	4.5	90.0	8500
8"	36	5.4	108.0	9500

Out Put mentioned is in terms of Water type liquid having sp. gr. 1.0

### **FILTER OPERATION :**

The liquid to be filtered is pumped into the FILTER TANK by Gear Pump. A CARTRIDGE PLATE ASSEMBLY consists of several filter plates arranged with supporting SCREENS, FILTER MEDIA and interlocking CUPS, is fitted in the filter tank. The liquid in the tank finds its way to the top of the plates through the circular openings on the side of the plates. The Filter media arrests suspensions and allows the filtrate to pass through them and the screens and to run down the central vertical channel formed by the interlocking cups. It then goes out through the outlet pipe. The filtrate is collected from the outlet pipe.

## SPIRAL FILTER



Spiral filters are used for Filtration of liquid with high solid contents in Chemical, Food, Adhesives and other industries. Discharge of the cake in dry or wet form can be done easily by opening and tilting of the filter Container and easily removing the spring cartridge.

### **Filter Operation**

The liquid with high solid contents to be filter is pumped or charged by gravity into the filter container. A spring Cartridge consists of spiral spring with a perforated pipe passing through it and supported by studs The spiral spring is covered with filter cloth and tied to the central hollow pipe at every turn of the spring to increase the filtration area. The mixture to be filtered is passed through the filter cloth. The solid remains on the filter cloth and the filterate is discharge through the perforated pipe end.

S.S. Engineering Spiral Filters are fabricated from Stainless steel, Mild Steel, and Rubber Lind.

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