

Zero Hold Up Filter Press

The Cartridge assembly consists of plates, perforated screens, spacers and filter media. Interlocking spacers internally form single pipeline. The unfiltered liquid is centrally fed under pressure from bottom inlet. The liquids spreads out equally on each plate fitted with filter media. Solids remain on filter media and clear filtrate flows through precisely made holes on sides of plates and collects in the shell, which then comes out through the outlet. In this process, solids are evenly distributed on each plate. The cake is then cleaned from the filter material and used again for filtration process.

- Single pass filtration with no solid bypass.
- Full batch recovery, no separate scavenging system needed.
- Proper sealing which allows the filtration of volatile, toxic and inflammable products.
- **Plate pack arrangement ensures :**
Any type of filtering media singularly or in combination, can be used to achieve required micron efficiency.
Easy removal and cleaning of the Cartridge Assembly.
- **Closed System ensures :**
Filtration of toxic, hazardous, explosive materials.
Efficiently cleaned and sterilized.
- **Central feeding ensures :**
No solid inside the vessel, complete recovery of liquids.
Cake solids can be maximum dried with N₂
Complete cake retains over the plate.
Uniform filter-aid bed can be formed.
Reduces the cost of expensive solvents.

Technical Specification :

Types	Diameter of Plate	No. of plates	Filtering area	Cake capacity	Output lit./hr.
SZ86	8"	6	0.1886 m ²	4.34 liters	400
SZ88	8"	8	0.2260 m ²	5.79 liters	500
SZ148	14"	8	0.6130 m ²	27.78 liters	1000
SZ1410	14"	10	0.7960 m ²	34.72 liters	1200
SZ1812	18"	12"	1.745 m ²	78.01 liters	4000
SZ1815	18"	15	2.169 m ²	40.50 liters	5000
SZ1823	18"	23	3.338 m ²	63.49 liters	7000
SZ2410	24"	10	2.53 m ²	142.56 LITERS	9000
SZ2418	24"	18	4.37 m ²	113.12 LITERS	16,200
SZ2413	24"	13	3.22 m ²	185.33 LITERS	11, 700
SZ2424	24"	24	5.75 m ²	150.81 LITERS	21,000

The values of "Flow-Rates" mentioned in technical specifications have been estimated for the following operating parameters :

Fluid : Water

Insoluble : Carbon

Filter media : Non-woven polypropylene cloth of 418 grade.

Carbon loading : 5 Kg/m² filtration area.