



J. K. Industries

The Strength of Experience

FILTRATION UNIT

- Sparkler Filter Press - Zero Hold up Type
- Sparkler Filter Press - Standard Type
- Plate and Frame Filter Press





Introduction

The J.K. Industries - manufacturer and supplier of zero hold up filter press in India that is made up of high quality stainless steel having customized finished design. The cartridge assembly consists of plates, perforated screens, spacers and filter media stands on S.S. trolley. The whole assembly complete with attached pump and pipe lines through welding.

Operation

The zero hold up filter press having exactly the opposite direction of flow of liquid to the flow in standard filter. The unfiltered liquid is fed into central part of the machine giving high pressure from bottom inlet. The filter media filters the liquid when the whole liquid spreads out equally on each plate. Solids remain on filter media and filtrate liquid collects in the shell, which then comes out through the outlet. After the completing of filtration process the cake is cleaned from filter material and can be recycled.

SPARKLER FILTER PRESS - ZERO HOLD UP TYPE

Features

- Complete filtration process without any hold up
- The opposite direction of flow saves large time and cost
- Single pass filtration with no solid bypass
- Full batch recovery, no need of separate scavenging system
- Proper sealing which allows filtration of toxic, hazardous and explosive liquids
- Available with different diameters and numbers of plates

Application

- Pharmaceutical Industries
- Chemical Industries
- Food Processing Industries
- Cement Industries
- Oil Industries
- Distillation Plants
- Beverages like Liquid Filter, Wine Filter and many more.



Technical Specification

Types	Dia. Of Plate	No. of Plates	Filtering area	Cake Capacity	Output
JKZ86	8"	6	0.198	4.50	400
JKZ88	8"	8	0.254	5.78	500
JKZ148	14"	8	0.756	27.00	1500
JKZ1410	14"	10	0.924	35.00	1800
JKZ188	18" D	8	1.270	51.00	2500
JKZ1815	18" S	15	2.270	44.00	4500
JKZ1812	18" D	12	1.840	78.00	3700
JKZ1823	18" S	23	3.400	65.00	6800
JKZ2412	24" D	12	3.430	148.00	6700
JKZ2423	24" S	23	6.336	120.00	12600
JKZ337	33" D	7	4.000	175.00	8000
JKZ3314	33" S	14	7.500	210.00	15000





Introduction

The J.K. Industries offer a wide range of sparkler filter press in India consisting of stainless steel shells with bolted top cover. This feature helps the filter press to create and maintain its pressure. Several disc type filter plates are arranged horizontally in the filter cartridge assembly with perforated supporting screens, filter media and interlocking cups. The whole assembly shell stands on S.S. trolley and structured with pump and piping connection.

Operation

The main operation of sparkler filter press is to filter the impure liquid. Arriving on top of each horizontal plate with increasing pressure, the filter media holds back the impurities and allows the filter to pass through centre by interlocking cups, which takes the filtrate to the outlet of the filter. The cake formed between the horizontal plates can also be obtained. The function of filtration process becomes slow when the liquid reached its holding capacity into the cake.

SPARKLER FILTER PRESS - STANDARD TYPE

Features

- GMP model stands on SS trolley
- Manufactured using quality raw material such as S.S. 304/316/316L M.O.C
- Having M.S./S.S. Jacket for hot filtration
- Available in various sizes and different diameters having numerous number of plates
- It also provides the Back wash facility for continuous operations.
- Two filter plates are available - Deep and Shallow
- The horizontal filter plates prevent the cake dropping from the shell.

Application

- Pharmaceutical Industries
- Chemical Industries
- Food Processing Industries
- Cement Industries
- Distillation Plants
- Oil Industries
- Dairy Industries
- Paint Industries
- Beverages



Technical Specification

Types	Dia. Of Plate	No. of Plates	Filtering area	Cake Capacity	Output
JKS86	8"	6	0.198	4.50	400
JKS88	8"	8	0.254	5.78	500
JKS148	14"	8	0.756	27.00	1500
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Introduction

The plate and frame type filter press of J.K. Industries is most suitable for Kieselguhr/Sheet filter for Coarse, polishing and sterilizing filtration duties. The body of this filter press is covered with stainless steel sheets. All parts on the body are welded with the guided chassis pipes.

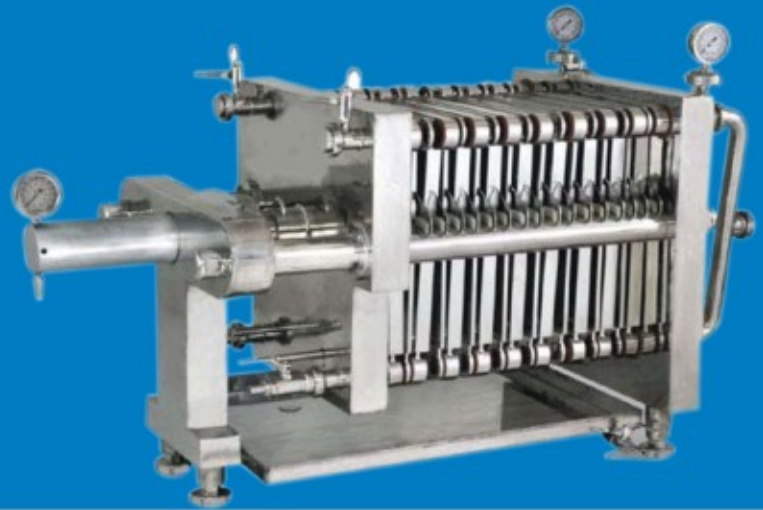


PLATE AND FRAME FILTER PRESS

Operation

The main function of plate and frame filter press is to remove the liquids from liquid solid slurry. This type of filter press is mostly used for filtering sugar, syrup, solvent liquids and many other thin liquids. The liquid fed into the filter press by using pump from the bottom of the plate. Then, this liquid travels between the filter plates where there is filter media inserted between the plates. As the gap between plates filled with slurry, the liquid passes through the filter media and goes to the outlet port at the top of the plate. After completing filtration process the filter plates has to be cleaned from solids.

Technical Specification

Sr. No.	Model	Filter Plate Size (cm x cm)	F.A/ Plate (m ²)	Cake Holding Capacity/ Frame		
				13mm Ltrs.	25mm Ltrs.	40mm Ltrs.
1	JK - 20	20 x 20	0.057	0.375	0.72	1.2
2	JK - 40	40 x 40	0.265	1.710	3.31	5.28
3	JK - 60	60 x 60	0.640	4.000	7.70	12.7

Features

- It is Available in different models and different filter plate sizes
- It can perform two stages of filtration simultaneously.
- As it is suitable for retention of large volume solids from liquids, it is also known as recess plate type filter press
- It is variably used with fixed, moving and rocket body

Application Area

- In Pharmaceutical Industries for thin liquid filter
- In Chemical Industries for syrup filter, solvent filter and many more
- In Food Processing Industries - sugar filter
- Beverages
- Distillation Plants



J. K. Industries

The Strength of Experience

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