



BEER  
**WINE**  
WHISKY  
RUM  
SCOTCH  
VODKA  
SPIRIT



## FILTRATION OF FINE WINE



**Akshar Engineering Works**

Mfg. & Exp. of Filtration Equipments Pharmaceuticals  
Machinery, S.S.Vessels, Chemicals, Distillery,  
Food & Brewery Industries





# ZERO HOLD UP FILTER PRESS

HORIZONTAL PLATE (REVERSE FLOW FILTER PRESS)  
PRESSURE FILTRATION



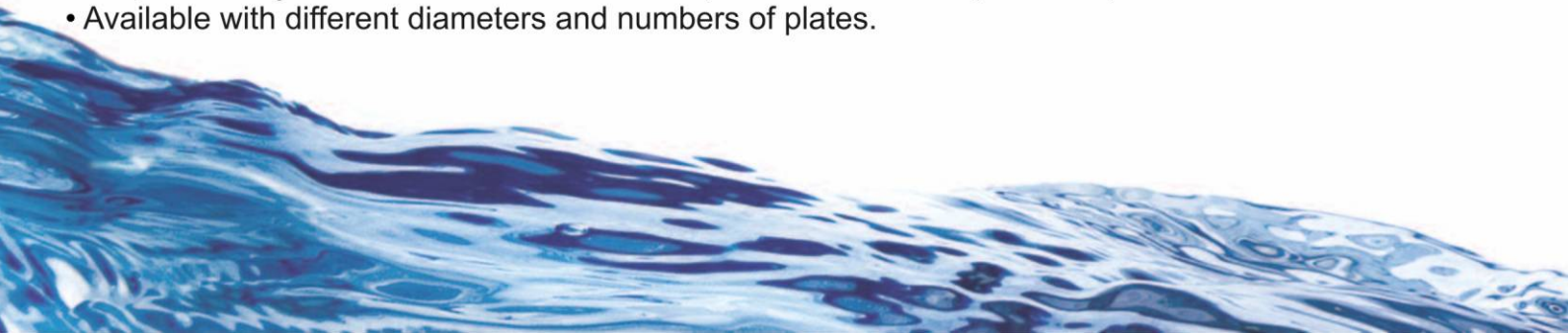
The **AKSHAR** manufacturer and supplier of zero hold up filter press in India that is made up of high quality stainless steel having customized finished design. The cartridge assembly consists of plates, perforated screens, spacers and filter media stands on S.S. trolley. The whole assembly complete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

## WORKING PRINCIPLE

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.

## SALIENT FEATURES FOR ZERO HOLD UP FILTER PRESS

- Complete filtration process without any hold up of unfiltered liquid..
- The opposite direction of flow saves large time and cost.
- Single pass filtration with no solid bypass.
- Gives crystal filtration by filtering particles up to 3 - 5 micron size.
- 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.





# SPARKLER FILTER PRESS

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| MODEL NO. | DIA. OF PLATES | NO. OF PLATES | HEIGHT OF PLATES | FILTRATION AREA | CAKE HOLDING CAPACITY |       | FLOW RATE ~ | SIZE OF PUMP | MOTOR HP |
|-----------|----------------|---------------|------------------|-----------------|-----------------------|-------|-------------|--------------|----------|
|           | (INCHES)       |               | (MM)             |                 | (Sq. Mtr.)            | SD*   |             | RF^          |          |
| AFSZH84   | 8              | 4             | 25               | 0.132           | 2.8                   | 2.5   | 300         | 0.5"         | 1.0      |
| AFSZH86   | 8              | 6             | 25               | 0.198           | 4.3                   | 3.9   | 400         | 0.5"         | 1.0      |
| AFSZH88   | 8              | 8             | 25               | 0.254           | 5.75                  | 4.95  | 500         | 0.5"         | 1.0      |
| AFSZH144  | 14             | 4             | 38               | 0.378           | 10.4                  | 12.9  | 1000        | 1.0"         | 2.0      |
| AFSZH146  | 14             | 6             | 38               | 0.567           | 15.3                  | 17.2  | 1200        | 1.0"         | 2.0      |
| AFSZH148  | 14             | 8             | 38               | 0.756           | 22.1                  | 23.5  | 1500        | 1.0"         | 2.0      |
| AFSZH1410 | 14             | 10            | 38               | 0.924           | 24.75                 | 27.5  | 1800        | 1.0"         | 2.0      |
| AFSZH1412 | 14             | 12            | 38               | 1.156           | 26.25                 | 29.95 | 2000        | 1.0"         | 2.0      |
| AFSZH188  | 18             | 8             | 50               | 1.27            | 55.0                  | 47.0  | 2500        | 1.5"         | 3.0      |
| AFSZH1810 | 18             | 10            | 50               | 1.62            | 62.0                  | 54.2  | 3200        | 1.5"         | 3.0      |
| AFSZH1812 | 18             | 12            | 50               | 1.842           | 78                    | 67.2  | 4000        | 1.5"         | 3.0      |
| AFSZH1815 | 18             | 15            | 25               | 2.27            | 44.0                  | 37.5  | 5000        | 1.5"         | 3.0      |
| AFSZH1818 | 18             | 18            | 25               | 2.72            | 53.1                  | 50.0  | 5500        | 1.5"         | 3.0      |
| AFSZH1818 | 18             | 18            | 50               | 2.77            | 118                   | 100   | 5500        | 1.5"         | 3.0      |
| AFSZH1823 | 18             | 23            | 25               | 3.45            | 66                    | 57    | 6800        | 1.5"         | 3.0      |
| AFSZH2412 | 24             | 12            | 50               | 3.75            | NA                    | 110   | 6700        | 2.0"         | 5.0      |
| AFSZH2415 | 24             | 15            | 50               | 4.21            | NA                    | 123   | 7800        | 2.0"         | 5.0      |
| AFSZH2418 | 24             | 18            | 38               | 5.04            | NA                    | 130   | 9000        | 2.0"         | 5.0      |
| AFSZH2423 | 24             | 23            | 38               | 6.34            | NA                    | 165   | 12500       | 2.0"         | 5.0      |
| AFSZH337  | 33             | 7             | 38               | 4.2             | 105                   | NA    | 8000        | 2.5"         | 7.5      |
| AFSZH3310 | 33             | 10            | 38               | 5.6             | 150                   | NA    | 11000       | 2.5"         | 7.5      |
| AFSZH3314 | 33             | 14            | 38               | 7.5             | 210                   | NA    | 15000       | 2.5"         | 7.5      |
| AFSZH3323 | 33             | 23            | 38               | 14.0            | 380                   | NA    | 25000       | 2.5"         | 7.5      |

Filter comes with inlet, outlet, pressure gauge, bypass, air valve, gear pump with safety valve & SS trolley.

**MAX. Working Pressure: 2 Bar**

**MAX. Working Temperature: 100 - 200 C**





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WINE FILTRATION

## SALIENT FEATURES FOR REVERSE FILTER PRESS

- GMP Models stands for SS trolley.
- There are two types of filter plates are available – Deep and Shallow Plates.
- Manufactured using quality raw material such as S.S. 304/316/316L M.O.C.
- Available in various sizes and different diameters having numerous number of plates.
- It also provides the Back wash facility for continuous operations.

## OPTIONAL FEATURES FOR ZERO HOLD UP FILTER PRESS

- Flame Proof Motors & Starters.
- SS 304 Double Jacketed for Hot Filtration.
- Backwash facility for Zero Hold Filter Press to take no. of batches without opening the filter
- Gear, Lobe, Alfa Laval Pumps for different liquid filtration.
- Sight Glass at the Top of filter tank to seeing the flow.
- Compounding Pressure Gauge, Air valve & Safety valve.
- PP, halar coating, PTFE, PVDF coating / lining can be done on Contact parts of liquid flow through filtration corrosive chemicals



**REDUCED IMPURITIES**

**CHARCOAL MICRON FILTRATION**



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PRESSURE FILTRATION

## SALIENT FEATURES FOR REVERSE FLOW ( ZERO HOLD) FILTER PRESS

### Central Feeding Ensures:

- No solid inside the filter tank.
- Complete recovery of liquids.
- Uniform distribution of cake on each plate.
- Uniform filter-aid bed can be formed.
- Cake solid can be maximum dried with N<sub>2</sub>.
- Complete cake retains over the plate.
- Reduce the cost of expensive solvents products.

### Closed System Ensures:

- Filtration of toxic, hazardous, explosive materials.
- Efficiently cleaned and sterilized.

### 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.

### APPLICATIONS:

Pharmaceutical, fine wine, alcohol, fine chemicals, perfumes, resins, food industries, distillery industries, paint, honey, varnish, sugar syrup etc....

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

- a) Fluid : Water
- b) Insoluble : Carbon
- c) Filter Media : Non woven polypropylene cloth of 418 grade
- d) Carbon loading : 5kg/m<sup>2</sup> filtration area.

The actual flow-rate will differ from the estimated value depending on the operating variable.



WINE FILTRATION



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## APPLICATIONS FOR SPARKLER ZERO FILTER PRESS

The Sparkler Filter Press is used in various industries such as pharmaceutical, chemical, beverages, food, cement and distillation plants. Following are the industries where the Sparkler Filter Press is used to filter the liquid slurry and produce the clean liquid.

### Pharmaceutical

This is the main industrial area of Sparkler Filter Press and it can filter out the foreign particles from the liquid slurry and make the liquid crystal clear. There are so many pharmaceutical industries in India and they produce pharma liquids in the form of solid liquid slurry.

### Chemical

To filter the chemical liquids, it is important to take care of temperature of filter press that is suitable for chemical. Make sure the quality remains same during filtration and at the end, you will get crystal clear liquid.

### Food & Beverage

Sparkler Filter Press is also used in food and beverage industries for the production of clean liquid food. The most food products are edible oils, juice, cold drinks, wine and many more.

### Distillation

In distillation plants, the sparkler filter press is one of the main components of whole plant. To produce the distillate water, the sparkler filter press used, as filter media and helps to produce the pure water at the end of distillation.

| Pharmaceutical       | Chemical         | Food            | Beverages        | Paint       |
|----------------------|------------------|-----------------|------------------|-------------|
| Antibiotics          | Acetic Acid      | Honey           | Alcohol          | Color       |
| Antioxidants         | Acetone          | Lactose         | Alcohol Extracts | Thinner     |
| Cough Syrups         | Acrylic Acid     | Bake Oil        | Beer             | Varnish     |
| Detergent            | Fatty Acids      | Beet Sugar      | Milk             | Paint Color |
| Dyes & Intermediates | Acrylonitrile    | Bleaching Earth | Apple Juice      |             |
| Glyceride            | Activated Carbon | Brine Solutions | Apple Wine       |             |
| Gasoline             | Acetylene        | Cacao Butter    | Lime Juice       |             |
| Glycerin             | Alkyd Polyester  | Calcium Salts   | Grape Juice      |             |
| Ink                  | Alkyd Resin      | Cane Sugar      | Guava Juice      |             |

## APPLICATION AREA

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





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PRESSURE FILTRATION



[www.zeroholdfilterpress.com](http://www.zeroholdfilterpress.com)



# ZERO HOLD UP FILTER PRESS

Horizontal Plate Closed Pressure Filter

Reverse Flow Filter Press

24" x 23 Plates

12500 LPH



**EXCELLENT POWER OF EXPERIENCE & TRUST.**

**AKSHAR ENGINEERING WORKS**

“ AKSHAR HOUSE”

Plot no: 3312/8 Phase-4 Chhatral, GIDC, Opp. V.K.Vikram Gali, Chhatral - 382729, Gujarat, India

Mo: 91-99982 52299 , Email:- vishal@aksharfilterpress.com, zeroholdfilterpress@gmail.com

Web: www.zeroholdfilterpress.com, www.aksharfilterpress.com

