



FILTRATION MACHINE GEAR PUMP



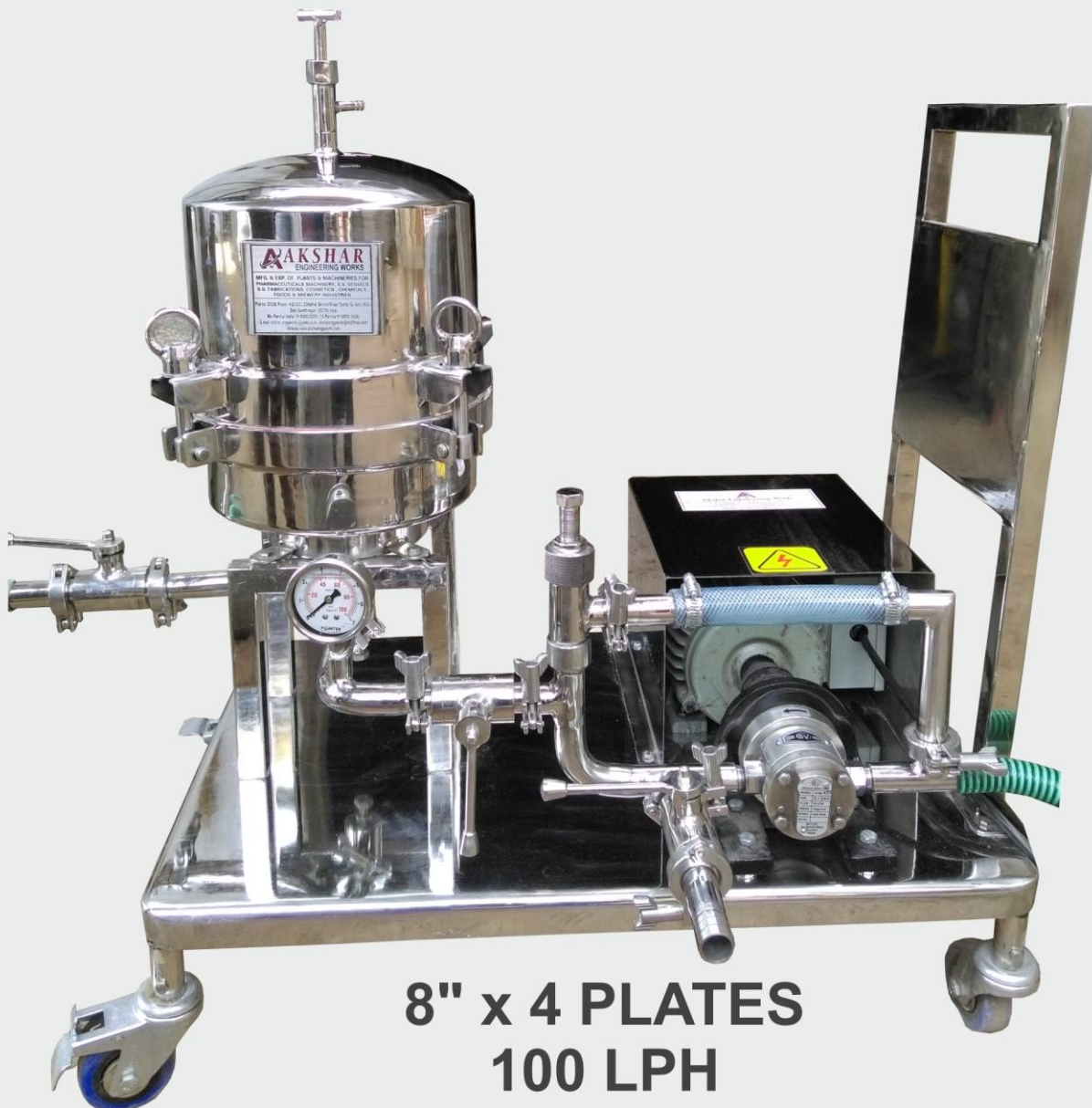


SUGAR SYRUP FILTER PRESS

The **Akshar Engineering Works** – manufacturer and supplier of sugar syrup 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 sugar syrup 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.



8" x 4 PLATES
100 LPH



SPARKLER ZERO FILTRATION

TECHNICAL SPECIFICATIONS

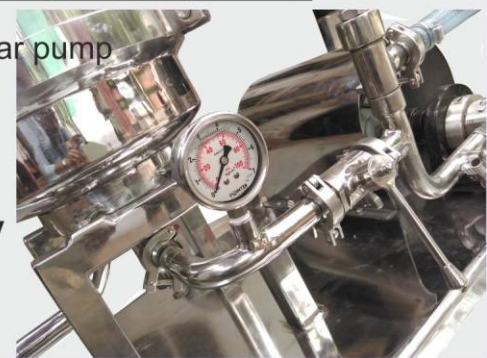
DIA. OF PLATES (INCHES)	NO. OF PLATES -----	HEIGHT OF PLATES (MM)	FILTRATION AREA (Sq. Mtr.)	CAKE HOLDING CAPACITY		FLOW RATE ~ Ltrs/Hr.	SIZE OF PUMP -----	PUMP HP
				SD*	RF^			
8	4	25	0.132	2.8	2.5	100	0.5"	1.0
8	6	25	0.198	4.3	3.9	150	0.5"	1.0
8	8	25	0.254	5.75	4.95	200	0.5"	1.0
14	6	38	0.567	15.3	17.2	600	1.0"	2.0
14	8	38	0.756	22.1	23.5	750	1.0"	2.0
14	10	38	0.924	24.75	27.5	1000	1.0"	2.0
14	12	38	1.156	26.25	29.95	1150	1.0"	2.0
18	8	50	1.27	55.0	47.0	1200	1.5"	3.0
18	10	50	1.62	62.0	54.2	1500	1.5"	3.0
18	12	50	1.842	78	67.2	1800	1.5"	3.0
18	15	25	2.27	44.0	37.5	2400	1.5"	3.0
18	18	25	2.72	53.1	50.0	2700	1.5"	3.0
18	18	50	2.77	118	100	2700	1.5"	3.0
18	23	25	3.45	66	57	3400	1.5"	3.0
24	12	50	3.75	NA	110	3300	2.0"	5.0
24	15	50	4.21	NA	123	3700	2.0"	5.0
24	18	38	5.04	NA	130	5000	2.0"	5.0
24	23	38	6.34	NA	165	6200	2.0"	5.0
33	7	38	4.2	105	NA	4000	2.5"	7.5
33	10	38	5.6	150	NA	5000	2.5"	7.5
33	14	38	7.5	210	NA	7000	2.5"	7.5
33	23	38	14.0	380	NA	12000	2.5"	7.5

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

MAX. Working Pressure: 5 Kg/cm

MAX. Working Temperature: 100 - 200 C

**NOTE: D=Deep Plate for High volume Cake Holding Capacity
S=Shallow Plate for small volume Cake Holding Capacity**





ANY TYPE OF OIL FILTRATION MACHINE

(100 - 12000 LPH)



SUGAR SYRUP FILTER PRESS

HORIZONTAL PLATE (REVERSE FLOW FILTER PRESS)
PRESSURE FILTRATION MACHINE

SALIENT FEATURES FOR SUGAR SYRUP 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 N₂.
- 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
- d) Carbon loading : 5kg/m² filtration area.

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



ZERO MICRON FILTRATION

Sugar Syrup Filtration



EXPERT IN FILTRATION UNIT

SALIENT FEATURES FOR SUGAR SYRUP 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.
- Having M.S./S.S. Double 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.
- The horizontal filter plates prevent the cake dropping from the shell.

SALIENT FEATURES FOR SUGR SYRUP 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 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.

OPTIONAL FEATURES FOR SUGAR SYRUP FILTER PRESS

- Flame Proof Motors, Starters , Available Single Phase & 3 Phase Motor also.
- 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



HONEY FILTER PRESS



4Kg HYDRO TESTING

SAFETY VALVE RECIRCULATION

APPLICATIONS AREA

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	





HONEY, OIL, SUGAR SYURP FILTRATION MACHINE



**14" x 10 PLATES
1000 LPH**

**18" x 15 PLATES
2400 LPH**





SUGAR SYRUP FILTER PRESS

HORIZONTAL PLATE (REVERSE FLOW FILTER PRESS)
PRESSURE FILTRATION MACHINE



8" x 8 PLATES
200 LPH

CAKE HOLD IN FILTER PAD



24" x 18 PLATES
5000 LPH



**18" x 12 PLATES
1800-2000 LPH**



EXCELLENT POWER OF EXPERIENCE & TRUST.



AKSHAR ENGINEERING WORKS

“ AKSHAR HOUSE”

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