

TOTAL
SOLUTION
FOR
FILTRATION



TDC PHARMATECH FILTRATION LLP

"Formerly Pharmatech Filtration - Since 1994"

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SLUDGE DEWATERING SCREW PRESS MACHINE

DESCRIPTION

Sludge Dewatering Screw press machine is a kind of economic & environmental friendly sludge dewatering equipment. It is a new type of sludge extrusion dewatering equipment by using the principle of screw extrusion, through the strong squeezing force generated by the change of screw diameter and screw pitch, and the tiny gap between the floating ring and the fixed ring, to realize solid-liquid separation.

TECHNICAL DETAIL

Model	Flow Capacity (m ³ /hr.)	Solid Consistency (%)	Qty. of Screw	Power Consumption
TPF/SPM/0.25	0.25	1%	1	0.5 HP
TPF/SPM/0.50	0.50	1%	1	0.75 HP
TPF/SPM/0.75	0.75	1%	1	0.75 HP
TPF/SPM/1.0	1.0	1%	1	1.25 HP
TPF/SPM/2.0	2.0	1%	1	1.50 HP
TPF/SPM/3.0	3.0	1%	1	1.50 HP
TPF/SPM/4.0	4.0	1%	1	1.50 HP
TPF/SPM/5.0	5.0	1%	1	1.50 HP
TPF/SPM/6.0	6.0	1%	2	1.50 HP
TPF/SPM/8.0	8.0	1%	2	1.50 HP
TPF/SPM/10.0	10.0	1%	2	2.50 HP



FILTER PRESS

DESCRIPTION

The Filter Press is a solid liquid separating equipment working on the principle of pressure feeding. It has been used successfully in almost every industrial filter application over its 150 years of history. It consists of a series of PP filter plates and cast iron or mild steel structure. The filter medium i.e filter cloth is provided in between the plates to separate solids from the liquids. A filter pump is required to feed the mother liquor through feeding nozzle to the chambers formed between the plates and filter medium, leaving the solid trapped inside and the liquid drained out.

SPECIFICATION

STRUCTURE	CAST IRON / MILD STEEL
SIZES	12" TO 60"
NOZZLE	SS 304/PP
CLOSING DEVICE TYPE	MANUAL, RATCHED GEAR HAND HYDRAULIC AND POWER HYDRAULIC
FILTER PLATE	PP
DELIVERY	OPEN
WORKING PRESSURE	UPTO 7 kg/cm²
FILTER MEDIA	PP/NYLON/POLYSTER/COTTON
WORKING TEMP.	UPTO 60° C



**(MANUAL OPERATED)
OR
(HYDRAULIC MOTORIZED)**

TECHNICAL DETAILS OF FILTER PRESS

Model	Plate Details			Cake Vol. Hold. Cap.	Oper. Pr. Bars	Max. Test Pr Bar	Tightening Mechanism
	Size	No.	MOC				
PTFM-1212	12"x12"	12	P.P.	24 Ltr.	3.0-4.0	4.0	Manual
PTFM-1818	18"x18"	18	P.P.	120 Ltr.	4.0-5.0	5.0	Manual
PTFM-1824	18"x18"	24	P.P.	160 Ltr.	4.0-5.0	5.0	Manual
PTFM-2424	24"x24"	24	P.P.	290 Ltr.	4.0-5.0	5.0	Manual
PTFH-2424	24"x24"	24	P.P.	290 Ltr.	4.0-5.0	5.0	Hydraulic
PTFM-2430	24"x24"	30	P.P.	360 Ltr.	4.0-5.0	5.0	Manual
PTFH-2430	24"x24"	30	P.P.	360 Ltr.	4.0-5.0	5.0	Hydraulic
PTFM-3030	30"x30"	30	P.P.	530 Ltr.	4.0-5.0	5.0	Manual
PTFH-3030	30"x30"	30	P.P.	530 Ltr.	5.0-6.0	6.0	Hydraulic
PTFH-3636	36"x36"	36	P.P.	930 Ltr.	5.0-6.0	6.0	Hydraulic
PTFH-3642	36"x36"	42	P.P.	1085 Ltr.	5.0-6.0	6.0	Hydraulic
PTFH-4848	48"x48"	48	P.P.	2165 Ltr.	6.0-7.0	7.0	Hydraulic
PTFH-6060	60" X 60"	60	P.P.	5133 Ltr.	6.0-7.0	7.0	Hydraulic



SLUDGE DEWATERING BELT FILTER PRESS (BFP)

A belt Filter Press is a sludge dewatering device that applies mechanical pressure to chemically conditioned slurry, which gets sandwiched between two tensioned belts through a serpentine of decreasing diameter of rollers arrangements. The machine can be divided into three zones:

GRAVITY ZONE

where water is drained by gravity through the porous belt.

WEDGE ZONE

where the solids are prepared for pressure application.

PRESSURE ZONE

where pressure is increased gradually to the conditioned sludge.



Special Advantages :

- ✓ High Dryness and Solid capture rate belt filter press
- ✓ Advanced slurry distribution unit
- ✓ Reliable and stable in operation
- ✓ Longer service time
- ✓ Low energy consumption
- ✓ Wide range application
- ✓ Easy to operate and maintenance
- ✓ Compact structure, small space to install
- ✓ Automatic operation, reducing labor cost and intensity.

Belt



Sludge Inlet Consistency 0.8-5%, Sludge Outlet Consistency 16-30%

Model	Belt Width (mm)	Electric Load (HP)	Dimension (LxWxH) (m)	Air Requirement	Wash Water
TPF/BFP 6	600	0.5	3.9x1.0x1.3	1 m ³ /hr	4 m ³ /hr
TPF/BFP 12	1200	1.0	3.9x1.6x1.3	1 m ³ /hr	6 m ³ /hr
TPF/BFP 15	1500	1.5	3.9x1.9x1.3	1 m ³ /hr	9 m ³ /hr
TPF/BFP 18	1800	1.5	3.9x2.2x1.3	1 m ³ /hr	10 m ³ /hr
TPF/BFP 22	2200	1.5	3.9x2.6x1.3	1 m ³ /hr	12 m ³ /hr
TPF/BFP 26	2600	2.0	3.9x3.0x1.3	1 m ³ /hr	14 m ³ /hr



DISSOLVED AIR FLOTATION (DAF) SYSTEM

Dissolved air flotation (DAF) is a waste water treatment technology that clarifies waste water by the removal of suspended matter such as oil or solids. The removal is achieved by dissolving air in the waste water under pressure and then releasing the pressure at in a flotation tank. The released air forms tiny bubbles which adhere to the suspended matter causing the suspended matter to float to the surface of the water where it may then be removed by a skimming device

ADVANTAGE OF DAF

- Very Low Retention Time 3-4 minutes
- Separates TSS, free oil and emulsified oil simultaneously
- Foot Print is too small
- Easy to Install
- Ready to Use
- Low chemical Consumption
- Sludge consistence more than 1%
- Efficiency 95-98%
- Very low startup time
- Pre-fabricated unit
- Easy to relocate
- Civil cost very low
- Recovers fiber from waste water in paper industry



MATERIAL OF CONSTRUCTION

As per requirement : Mild steel, MS+FRR, Stainless Steel (SS304, SS316)

DAF AVAILABLE MODEL

Capacity:-6m³/hr to 1000 m³/hr

CLARIFIER AND CLARIFLOCCULATOR



APPLICATION AREA OF CLARIFIER AND CLARIFLOCCULATOR

- Municipal Water Treatment
- Primary Treatment in ETP
- Sludge Thickener

MATERIAL OF CONSTRUCTION

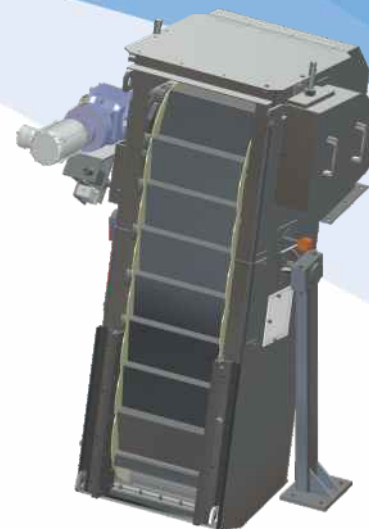
As per requirement : Mild steel, MS+FRR, Stainless Steel (SS304, SS316)



MECHANICAL BAR SCREEN

DESCRIPTION

Mechanical Bar Screen offered is an advanced solid-liquid separation device which is used as a pre-screening equipment in the wastewater treatment process in many kind of industries like textiles, paper, food processing, leather, sewage etc. Mechanical Bar Screens are used to remove large objects such as rags, plastics bottles, bricks, solids and other plastic objects from the waste stream entering the treatment plant and prevents the pumps from chocking. Mechanical Bar Screens is offered by us in various dimensions as per the specifications provided by the customers. We provide these machines in SS304 and SS316.



BAR SCREEN IS SUITABLE IN FOLLOWING TYPE OF INDUSTRIES

- Automobile Industry
- Dairy Industry
- Meat Processing Industry
- Tannery Industry
- Textile Industry
- Pharmaceutical Industry
- Fish Processing Industry
- Cosmetic Industry
- Paint Shop
- Municipal STP

MATERIAL OF CONSTRUCTION

Stainless Steel (SS304/ SS316)

BAR SCREEN AVAILABLE MODEL

Capacity:-5m³/hr to 100 m³/hr

BELT TYPE OIL SKIMMER

DESCRIPTION

Belt oil skimmer efficiently removes oil from the surface of oily effluent. It works on the principle of the difference in surface tension of oil and water. A rotating endless oleophilic belt passes through the oily effluent, which breaks the surface tension of the water to attract and collect the floating oil. The belt is passed through a set of wiper blades where the oil is wiped off from both sides of the belt.



DIFFUSERS



FINE BUBBLE DIFFUSERS

AIRFIN® Tubular Diffusers are designed to handle high volumetric air discharge with ease. Our Diffuser Membranes are specially formulated to handle high pressure air discharge without stressing the membrane and comes with perforations that are MICROSTRESS Resistant Technology™ that significantly lessens rupture in membranes even in above average conditions and prevent back flow and simultaneously providing higher oxygen transfer efficiency. Its sturdy structural design prevents diffuser damage during and before use.

COARSE BUBBLE DIFFUSERS

Our JCB series Diffusers have been engineered in a simplified design consisting of two parts; The support base and flexible diaphragm. The diaphragm is designed to provide extended life and optimum performance due to its specially formulated EPDM/Silicon rubber material.



FINE BUBBLE DIFFUSERS



COARSE BUBBLE DIFFUSERS

MEDIA

FAB / BIO / MBBR MEDIA

MBBR media is a novel biologically active carrier, it adopts scientific formula, depending on the nature of water. MBBR technology is more advanced & dominant in comparison to the suspended growth process. It allows bacteria to stick to the surface to form biofilm.

MAIN FEATURES

- Larger effective surface area, obtaining more organism.
- Lower energy consumption, saving space & shorten technology process.

FILTER MEDIA TECHNOLOGY

- Media has special design of surface & strong bio-film growth capacity, with large specific surface area, high voidage & the more periphyton biomass.
- It takes 3-15 days to get biofilm formation on media.
- It has excellent impact strength



TUBEDEK MEDIA

Tubedek media helps to reduce cross sectional area of settling tank, also reduces land requirement, thus reduces civil structure costs. Tubedek media profiles can be assembled easily to fit into any size or shape of settling tanks.

MAIN FEATURES

- Tubedek media is made up of PVC material & is suitable for dosage of any treatment chemicals required in the treatment process.
- Its hexagonal chevron design is a proven configuration with lowest hydraulic radius for optimum performance.
- Its tongue & groove arrangement gives ease to assemble the block on site.



ABOUT US

After running **PHARMATECH FILTRATION** which was established in 1994, we are delighted to share that our organisation is now upgraded with new technologies and with a new name which is "**TDC Pharmatech Filtration LLP**".

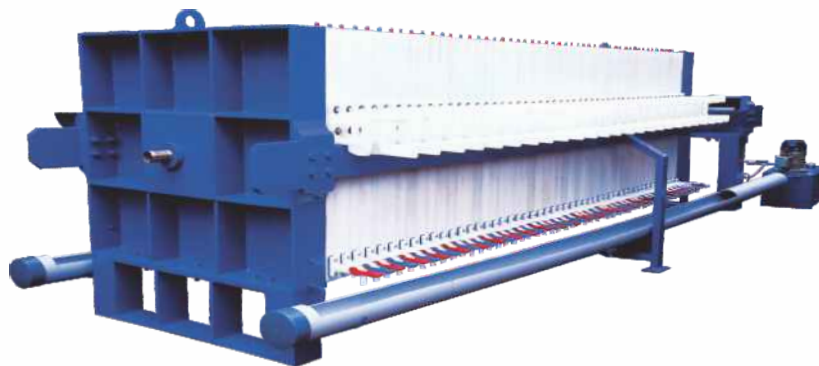
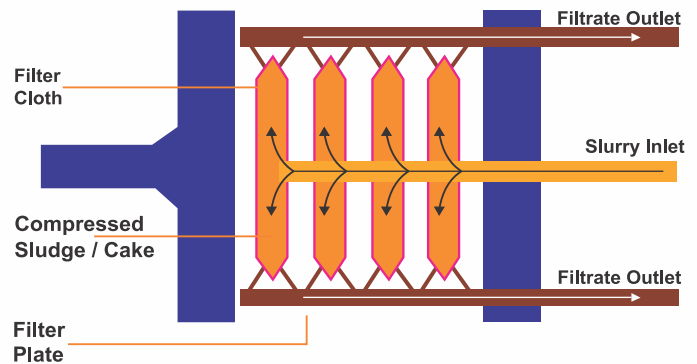
New structure will provide more flexibility, increased credibility, and improved legal framework. This transition will enable us to leverage new opportunities, enhance our business operations, and strengthen our position in the market.

TDC PHARMATECH FILTRATION LLP (Formerly know as Pharmatech Filtration) is a leading organisation in the field of manufacturing products and equipment's for Water & Waste Water Treatment Plants. Our unit is based in Delhi, the organisation has complete manufacturing setup with state of the art machines using latest technology to deliver quality products for better results and services.

We have started manufacturing many innovative equipments for better performance and operation convenience. We are committed to provide our best to our customers

Installations

- P** harmaceutical, Paper & Plastics Industries
- H** otels & Resort
- A** erobically & Anaerobically digested Wastes
- R** eclamation of Metals
- M** arble, Mineral and Sewage Sludges
- A** ctivated Earth & Alum Sludges
- T** iles & Television Tube Manufacturing Industries
- E** ffluent Treatment Plants & Sewage
- C** eramic & Clay Industries
- H** ydrocarbon & Petrochemical Refineries



TDC PHARMATECH FILTRATION LLP

"Formerly Pharmatech Filtration - Since 1994"

Manufacturers of: ETP / STP Components

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