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TDC PHARMATECH FILTRATION LLP

“ Formerly Pharmatech Filtration - Since 1994 ”

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SLUDGE DEWATERING SCREW PRESS MACHINE

Sludge Dewatering Screw Press Machine is a very economical and environment friendly equipment. This is innovative technology based on the principle of screw extrusion, the strong squeezing force generated by the change of screw pitch, and the tiny gap between the floating ring and the fixed ring, to realize solid-liquid separation.



MOC OF MACHINE SS304/SS316



Scan for Working Video Single Screw



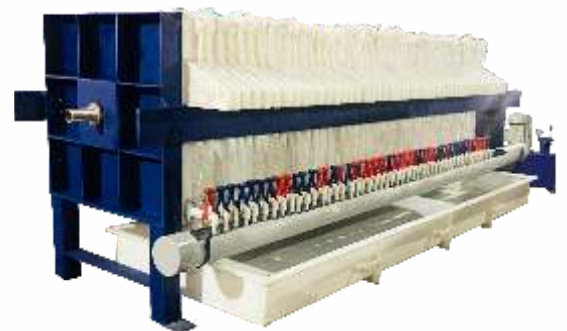
Scan for Working Video Double Screw

TECHNICAL DETAILS AT SOLID CONSISTENCY (1%)

Model	Flow Capacity	Qty of Screw	Power
TPF/SPM/0.25	0.25	1	0.5 HP
TPF/SPM/0.50	0.50	1	0.75 HP
TPF/SPM/0.75	0.75	1	0.75 HP
TPF/SPM/1.0	1.0	1	1.25 HP
TPF/SPM/2.0	2.0	1	1.50 HP
TPF/SPM/3.0	3.0	1	1.50 HP
TPF/SPM/4.0	4.0	1	1.50 HP
TPF/SPM/5.0	5.0	1	1.50 HP
TPF/SPM/6.0	6.0	2	1.50 HP
TPF/SPM//8.0	8.0	2	1.50 HP
TPF/SPM/10.0	10.0	2	2.50 HP
TPF/SPM/12.0	12.0	2	4.0 HP
TPF/SPM/15.0	15.0	2	4.0 HP
TPF/SPM/20.0	20.0	2	4.0 HP

POLYPROPYLENE FILTER PRESS MACHINE (MANUAL / HYDRAULIC)

The Filter Press is a solid liquid separating equipment based on the principle of pressure feeding. It has been used successfully in almost every industrial dewatering application over 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 feed pump is required to feed the slurry liquor through feeding nozzle to the chambers formed between the plates and filter medium, leaving the solid trapped inside and the liquid drained out.



CONSTRUCTION DETAILS

Structure	Cast Iron/Mild Steel	Delivery	Open /Closed
Nozzle	SS 304/PP	Working Pressure	Upto 7KG /cm2
Filter Plate	Polypropylene	Working Temp	Upto 60°C
Filter Cloth	PP/Nylon/Polyster/Cotton	Sludge Tank	PP/MS



TECHNICAL DETAILS OF PP FILTER PRESS

Model	Plate Details			Cake Val. Hold. Cap	Oper. Pr. Bars	Max.Test Pr. Bars	Tightening Mechanism
	Size	No.	MOC				
PTF-1212	12"x12"	12	P.P	24 Ltr.	3.0-4.0	4.0	Manual/Hydraulic
PTF-1818	18"x18"	18	P.P	120 Ltr.	4.0-5.0	5.0	Manual/Hydraulic
PTF-2424	24"X24"	24	P.P	290 Ltr.	4.0-5.0	5.0	Manual/Hydraulic
PTF-3030	30"x30"	30	P.P	530 Ltr.	4.0-5.0	5.0	Manual/Hydraulic
PTF-3636	36"x36"	36	P.P	930 Ltr.	5.0-6.0	6.0	Hydraulic
PTF-4848	48"x48"	48	P.P	2165 Ltr.	6.0-7.0	7.0	Hydraulic
PTF-6060	60"x60"	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



Scan for Working Video

ADVANTAGE OF BFP

- ✓ 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



TECHNICAL DETAILS OF BFP

Model	Belt Width (mm)	Electric Load (HP)	Dimension (LXWXH)(m)	Air Requirement	Wash Water
TPF/BFP/6	600	0.5	3.9X1.0X1.3	1M ³ /hr	4m ³ /hr
TPF/BFP/12	1200	1.0	3.9X1.6X1.3	1M ³ /hr	6m ³ /hr
TPF/BFP/15	1500	1.5	3.9X1.9X1.3	1M ³ /hr	9m ³ /hr
TPF/BFP/18	1800	1.5	3.9X2.2X1.3	1M ³ /hr	10m ³ /hr
TPF/BFP/22	2200	1.5	3.9X2.6X1.3	1M ³ /hr	12m ³ /hr
TPF/BFP/26	2600	2.0	3.9X3.0X1.3	1M ³ /hr	14m 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 and oil simultaneously. The removal is achieved by dissolving air in the waste water under pressure and then releasing the pressure at the inlet of 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 is removed by a skimming device. The shape can be both circular and rectangular, depending upon the requirement .

ADVANTAGE OF DAF

- Very Low Retention Time (5-15 minutes)
- Separates TSS, Free Oil and Emulsified Oil simultaneously
- Foot Print is small in comparison to other Clarifiers
- Low Chemical Consumption
- Efficiency 95-98% (Depends on type of Industry)
- Pre-fabricated unit (easy to install)



DAF RECTANGULAR

APPLICATIONS OF DAF

- Food & Beverage Industry
- Oil Refineries & Petrochemicals
- Pulp & Paper Mills
- Municipal Wastewater Plants
- Textile and Tanning Industries
- Dairy & Meat Processing



DAF CIRCULAR

TECHNICAL DETAILS OF RECTANGULAR DAF

Max Flow	Length	Weidth	Height	Power(HP)
15m ³ /hr	4.0 m	1.0 m	2.5 m	1.0 HP
30m ³ /hr	4.0 m	2.0 m	2.5 m	1.0 HP
55m ³ /hr	5.7 m	2.0 m	2.5 m	2.0 HP
70m ³ /hr	7.7 m	2.0 m	2.5 m	2.0 HP
90m ³ /hr	9.7 m	2.0 m	2.5 m	2.0 HP
125m ³ /hr	10 m	2.5 m	2.5 m	2.0 HP
150m ³ /hr	10 m	3.0 m	2.5 m	2.0 HP

MATERIAL OF CONSTRUCTION

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



Scan For Working Video Circular DAF



Scan For Working Video Rectangular DAF

CLARIFIER AND CLARIFLOCCULATOR

Clarifiers and Clariflocculators are essential components in the treatment of water and wastewater, It is used primarily for the removal of suspended solids and to improve the overall quality of the treated water.

CLARIFIER

A clarifier is a settling tank used to remove solid particulates from liquids through sedimentation. It works on the principle of gravity as the water flows through the tank, heavier particles settle to the bottom, forming sludge, while cleaner water exits from the top. Clarifiers are commonly used in both primary and secondary treatment stages in sewage treatment plants and in industrial water treatment.

CLARIFLOCCULATOR

A Clariflocculator combines the processes of flocculation and clarification in a single unit. In this system:

- Coagulation occurs in a central zone where coagulants are added.
- Coagulated effluent flows into the clarification zone,

MATERIAL OF CONSTRUCTION

Mild Steel (MS), MS+FRP, Stainless Steel (SS304)

APPLICATION OF CLARIFIER AND CLARIFLOCCULATOR

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



BELT TYPE OIL SKIMMER

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.

APPLICATIONS:

- Paint Industry
- Sewage Treatment
- Automobile industry
- oil industry
- Eateries

- Belt Type : Endless
- Structure : MS/SS
- Roller : SS304



MECHANICAL BAR SCREEN

Mechanical Bar Screen is an advanced device used as a pre-screening equipment in the wastewater treatment in many kinds 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.



APPLICATION

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

BAR SCREEN AVAILABLE MODEL

MOC:-SS304/SS316

Capacity:-5m³/hr to 100 m³/hr

BASKET TYPE CENTRIFUGE MACHINE

This Machine is used for sludge dewatering which works on the principal of centrifugal force. The arrangement is very simple and easy in installation and operation. This machine works in batches and output solid consistency is very good.

WORKING PRINCIPLE

The basket centrifuge operates on the principle of sedimentation. When the machine rotates at high speed, the heavier solid particles move outward and stick the basket wall, while the lighter liquid moves inward and is drained out.



MOC:- MS/SS

TECHNICAL DETAILS OF CENTRIFUGE MACHINE

MODEL	MOC	BASKET DIA(MM)	WET CAKE /BATCH(IN KG)	POWER (HP)
PTF/CM/12"	MS/SS	300	10Kg	1.0
PTF/CM/18"	MS/SS	450	20Kg	1.0
PTF/CM/24"	MS/SS	600	45Kg	2.0
PTF/CM/30"	MS/SS	750	75Kg	3.0
PTF/CM/36"	MS/SS	900	150Kg	5.0
PTF/CM/48"	MS/SS	1200	250Kg	5.0

ORGANIC FOOD WASTE COMPOSTER MACHINE (OWC)

An Organic Food Waste Composter Machine is an automated or semi-automated system that converts biodegradable kitchen waste such as vegetable peels, leftover food, and fruit scraps into nutrient rich compost. It uses aerobic decomposition (with oxygen) or heat treatment, sometimes with microbial additives, to accelerate the natural composting process.

ADVANTAGES OF OWC

Sustainable:- Divert waste from landfills and product fertilizer for landscaping, gardening, or farming.

Scalable:- Wide product range to fit small businesses or large-scale operations.

Odourless:- The unique design, construction and composting process of our machines allow them to function virtually odour-free.

Economical:- Businesses have been able to implement significant reduction in waste management costs by adopting on-site composting practices for food waste.

Efficient:- 24 hour cycle to keep up with the busiest kitchens, supermarkets, and food processing sites.

TECHNICAL DETAILS OF OWC

Model	Capacity	Dimension in MM	Load in KW
TPF/OWC/25	25-30 KG/DAY	1600X800X1100	1.5
TPF/OWC/50	50-60 KG/DAY	1700X820X1250	3
TPF/OWC/100	100-125 KG/DAY	2100X1050X1310	9
TPF/OWC/200	200-225 KG/DAY	2500X1075X1350	11
TPF/OWC/300	300-325 KG/DAY	2700X1075X1440	13
TPF/OWC/400	400-425 KG/DAY	3000X1300X1600	16
TPF/OWC/500	500-525 KG/DAY	3200X1500X1800	19
TPF/OWC/1000	1000-1050 KG/DAY	3500X1650X1850	27



Organic Waste



OWC



Compost/Manure



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".

We are mainly into manufacturing of equipment related to waste water treatment. We use advanced technology for design of equipment and in manufacturing process as well. We have experience of more than 30 years of manufacturing.

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OUR ESTEEMED CLIENTS



TDC PHARMATECH FILTRATION LLP

" Formerly Pharmatech Filtration - Since 1994 "

Manufacturers of: ETP/STP Components & Equipments

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