



FP-008 Triple Belt Filter Press

### Purposes:

- Liquid/solids separation through pressure filtration.

### Applications:

- Municipal Wastewater
- Food Processing Wastewater
- Poultry and Slaughtering Waste
- Pulp & Paper Wastewater
- Petrochemical Wastewater

## Triple Belt Filter Press

The belt filter press is a continuous-feed dewatering device that applies chemical conditioning, gravity draining, and mechanical pressure to dewater sludge. The sludge/slurry is sandwiched between tensioned belts and rolls, by passing those belts through a serpentine of decreasing diameter rolls to remove the moistures and then dispose of the sludge cake. The compressed sludge is reversed several times to be pressed by low, medium and high pressures between two belts, and passively dewatered by squeezing of the rolls.

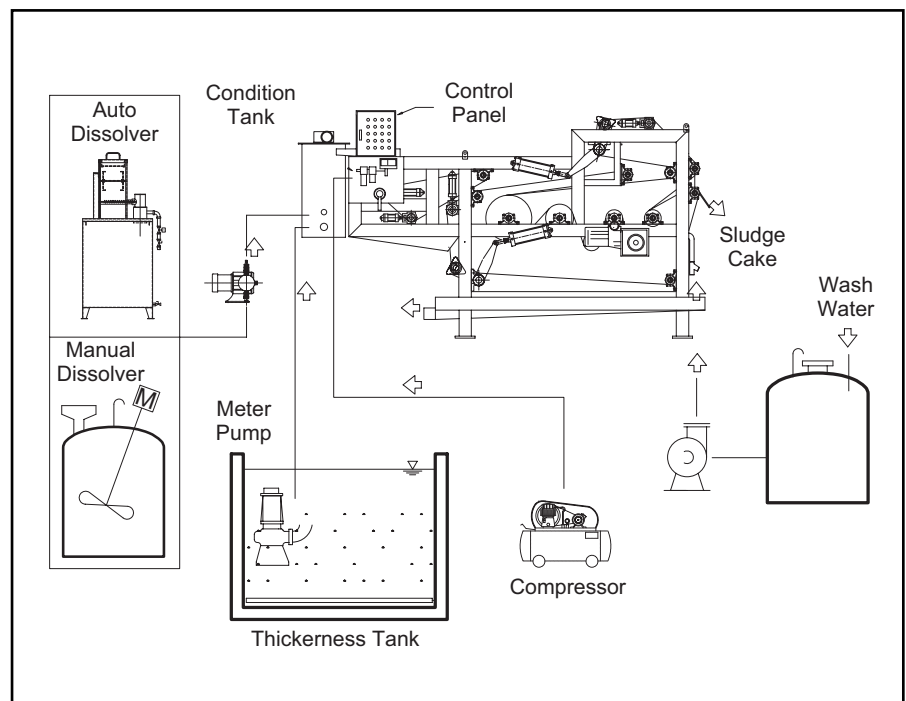
### Features

- › Triple filter belt design: Triple filter belt circulation is suitable for a large quantity application continuously
- › Low capital and O/M costs : Simple structures, less breakdown and easy to maintain.
- › Easy operation : Automatic operating while dewatering.
- › High applicability : Suitable for various slurry waste with coagulant/polymer additions

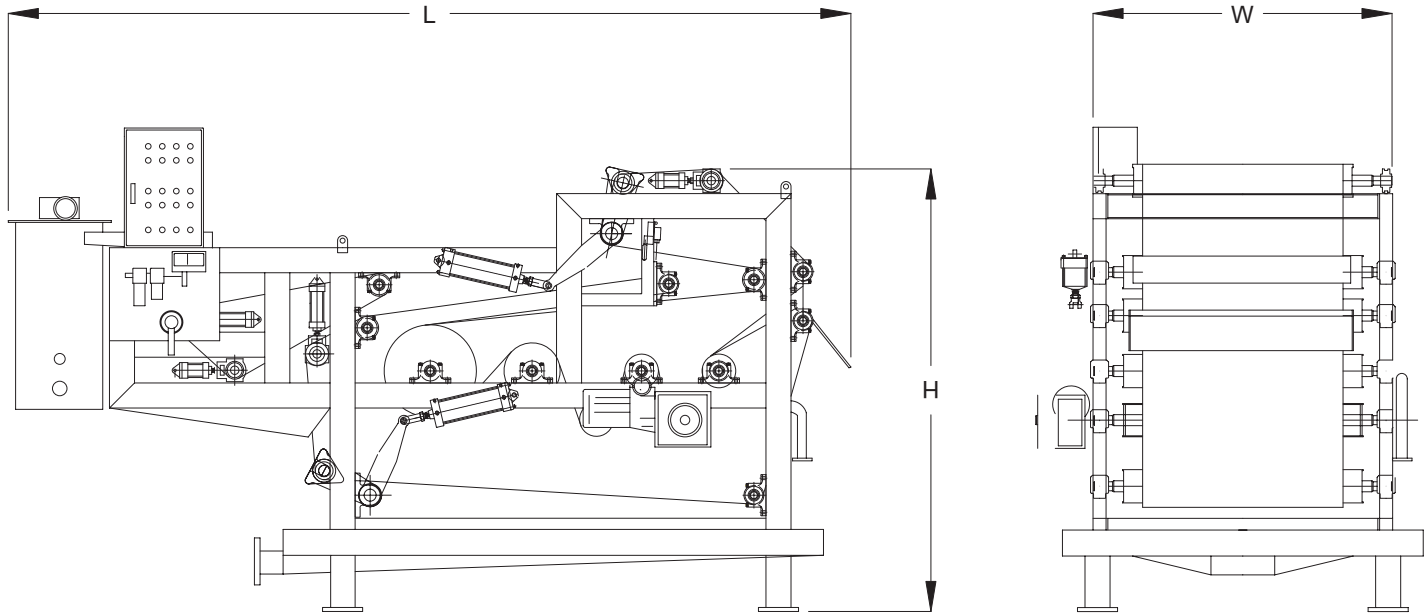
### Characteristics

- › Triple filter belt design with the functions of multiple stages of compressing and dewatering.
- › Vibration of filter belt to enhance the dewatering efficiency.
- › The sludge reversed repeatedly to discharge the moistures quickly.
- › While reversing in the filter presses, greater drainage capability is provided for the sludge laminated layer.
- › Sludge leveler : Keep the thickness of sludge even to enter the low-pressure rolls.
- › Low-pressure dewatering : Increasing the pressure by a stationary wedge to dewater after the discharging of free water and agglutinated water.
- › Low-pressure of gear-like rolling : Pressed by the gear-like rolls to discharge the surplus water.
- › Mid-pressure rolling of increasing pressure to remove moisture from the sludge flocs.
- › High-pressure shear rolling to press the gelatinous water by share forcing two filter belts.
- › Washing water can be reused and is adjustable to save up to 50% of washing water.
- › Belt alignment device can adjust the belt migration automatically.

## Equipment Process



## Equipment Drawings and Section Views



## Triple Belt Filter Press

### Specifications

Item Model	Belt Width (mm)	Capacity (T/hr)	D.S (Kg/hr)	Power (HP)				Dimension L×W×H (mm)	Weight (Ton)
				Com pressor	Drive Motor	Wash Pump	Mixer		
FP500-M	500	0.9 - 2.2	8 - 45	1.0	1.5	3.0	1/2	3600x900x1800	1.2
FP800-M	800	2 - 6	20 - 120	1.0	1.5	3.0	1/2	4800x1300x2100	2.8
FP1000-M	1000	4 - 8	40 - 160	1.0	2.0	5.0	1/2	4800x1500x2100	3.5
FP1200-M	1200	6 - 10	60 - 200	1.0	2.0	5.0	1/2	4800x1700x2100	4.0
FP1500-M	1500	8 - 18	80 - 360	2.0	2.5	7.5	1	5000x2000x2200	4.6
FP1700-M	1700	16 - 22	160 - 440	2.0	2.5	7.5	1	5000x2200x2200	5.5
FP2000-M	2000	18 - 24	180 - 480	3.0	3.5	10	1	5000x2700x2200	6.5
FP2500-M	2500	20 - 30	200 - 600	3.0	3.5	10	2	5000x3000x2200	8.0

