



FP-007
Double Belt Filter Press

Purpose :

- Liquid/solids separation through pressure filtration.

Applications :

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

Features:

- › Dual filter belt design :
Dual filter belt circulation is suitable for a large quantity application.
- › 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

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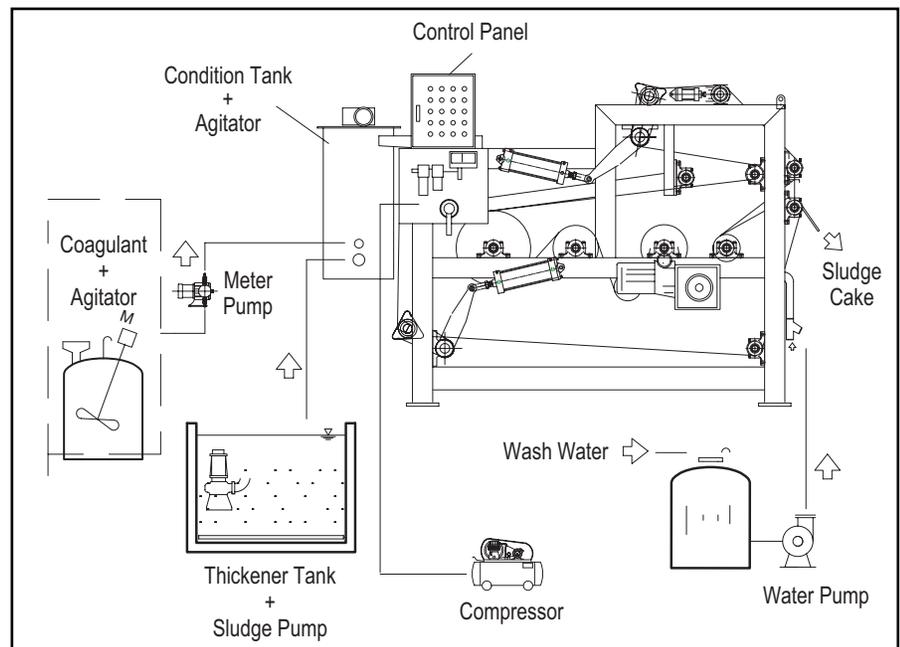
The belt filter press is a continuous-feed dewatering device that applies chemical conditioning, gravity draining, and mechanical pressure to dewater sludge. The sludge/slurry is sandwiched between tensioned belts and rolls, by passing those belts through a serpentine of decreasing diameter rolls to 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



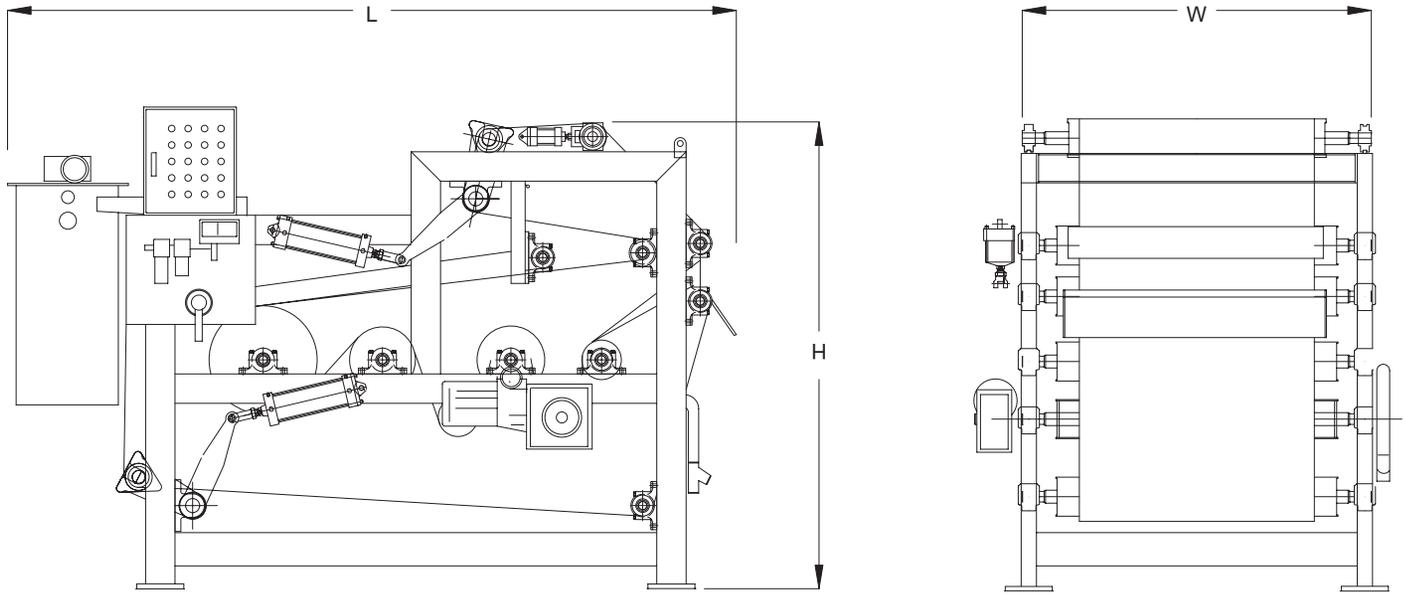
Characteristics

- › Double filter belt : Circulated by two belts at top and bottom for fast and high rate dewatering.
- › Adjustable operating velocity from 1 m³/min to 9 m³/min.
- › Each high-press belt is equipped with tension controller to avoid uneven tension.
- › 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



Double 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-D	500	0.6 - 2	6 - 40	1.0	1.0	3.0	1/2	3000x900x1800	0.8
FP800-D	800	1.8 - 4	18 - 80	1.0	1.0	3.0	1/2	4100x1300x2100	2.0
FP1000-D	1000	3 - 6.5	30 - 130	1.0	1.0	5.0	1/2	4100x1500x2100	2.8
FP1200-D	1200	4 - 8	40 - 160	2.0	1.5	5.0	1/2	4100x1700x2100	3.2
FP1500-D	1500	6 - 14	60 - 280	2.0	2.0	5.0	1	4300x2000x2200	3.6
FP1700-D	1700	10 - 16	100 - 320	3.0	2.0	7.5	1	4300x2200x2200	4.0
FP2000-D	2000	14 - 20	80 - 380	3.0	3.0	7.5	1	4300x2700x2200	5.0

