

## Drum Thickener Belt-Type Filter Press

### Description

Aventura's drum thickener belt-type filter press mono-block machine is a comprehensive sludge thickening and dewatering equipment combined with sludge-dose mixing machine, drum thickener and belt-type filter press machine. The sludge with the moisture rate lower than 99.5% can be treated directly.

Compared with other types of water extractor, the cost-effectiveness is more advantageous: Compared with the belt-type filter press machine, the drum thickener added makes it possible to feed in sludge of lower concentration; the sludge thickening basin is superseded so that the construction investment is reduced and better de-phosphorization effect is achieved. Compared with belt-type thickener-filter press mono-block machine, it is smaller, compact structure, easy to operate and maintain.

### Design Features

- ▶ Two corrective measures: bilateral differential and infinite tension corrective.
- ▶ Synchronization of two belts, easy to operate, low energy consumption.
- ▶ Excellent sealing of the drum with no sludge leaking.
- ▶ The S-shape arrangement of the 8 rollers in pressing system allows good pressing effect moisture content of the cake lower than 78%.
- ▶ The two drivers make sure that the belts won't slip.
- ▶ The structure of the whole machine is compact, thus saving the floor space and reducing the construction investment.

### Applications

Mainly applied to thicken and dehydrate the sludge in the process of municipal and industrial wastewater treatment, covering the fields of municipal, petrochemical, electric, paper making, pharmacy, food & beverage and so on.



ISO:9001 CE

## Performance Data

Feed-in Parameter	
Feed-in nature	Municipal sludge and industrial Sludge
Feed-in moisture content	≤ 99.5 %
Performance Index	
Cake moisture content	≤ 80 %
Solid recovery rate	≥ 98 %
Equipment noise	≤ 80 dB (A)
Dosing requirement	1 ~ 3 kg/t · DS

## Technical Details

Specifications		HTB- 500	HTB- 750	HTB- 1000	HTB - 1250	HTB-1500	HTB- 1500L	HTB- 1750	HTB- 2000	HTB- 2500
Belt Width (mm)		500	750	1000	1250	1500	1500	1750	2000	2500
Treating Capacity (m <sup>3</sup> /hr) (SS. 1.5-2.5%) Inlet Consistency		2.8- 5.7	4.3- 8.2	6.2- 11.5	7.2- 13.7	9.0-17.6	11.4-22.6	14.2-26.8	17.1-36.0	26.5-56.0
D.S Dried Sludge (kg/hr)		45-82	73-125	98-175	113-206	143-240	180-320	225-385	270-520	363-700
Water Content (%)		63-83	63-83	63-83	63-83	63-83	63-83	63-83	63-83	63-83
Power Consumption (HP)	Driving Motor (Speed Variable)	1/2	1/2	1/2	1/2	1/2	1	1	1	2
	Disposal Agitator	1/4	1/4	1/2	1/2	1/2	1	1	1	1
	Drum Thickener	1/4	1/4	1/2	1/2	1/2	1	1	1	1
External Dimension (Reference) (mm)	L	2600	2600	2600	2600	2700	3250	3300	3400	3400
	W	1050	1300	1550	1800	2150	2150	2400	2650	3150
	H	2150	2350	2350	2350	2500	2500	2500	2500	2600
Base Dimension (mm)		2100X836	2100X 1086	2100X1336	2100X 1586	2450X1848	2450X2098	2450X2348	2450X2348	2450X2886
Reference Weight (kg)		950	1120	1360	1620	2050	2400	2650	3250	3850

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