



METSU ENVIRO TECH PVT LTD

Innovative Technological Environmental Solutions

CLAIRE FONTAINE®

Innovative Treatment of Waste Water

Centrifugal Desludger

AUTOMATED

**SUPERIOR ALTERNATIVE
TO FILTER PRESS**

What Is Bio Solids?

Biosolids are nutrient rich organic residual materials generated during the treatment of domestic sewage at a waste water treatment facility. Biosolids management helps process solid residue to reduce or eliminate pathogens and minimise odours, forming a safe beneficial product for use as soil. Farmers and gardeners have been recycling biosolids for ages.

Biosolids must be treated as an environmental friendly process.

Biosolids contains 99% moisture. The most efficient method of dewatering is a centrifugal system.

CLAIRE FONTAINE®

Automated Dewatering System

It achieves water solid separation by consolidation of solids under the influence of strong centrifugal forces generated in high speed rotating machines.

They are normally operated in a batch cycle. The biosolids is pumped into the inlet of the dewatering system which is collected in a bag housed in perforated SS 304 basket.

As the basket rotates, water solid separation is achieved. The water is collected and sent through an outlet pipe which can be recirculated to the equalization tank.

The dewatered biosolids is collected and bagged by opening the top stainless steel cover.

Advantages

- More than 50% savings on space
- Automated & Ease of operation
- Reduced maintenance cost

Production of sludge cake with 20-25%

Differentiation from Filter Press

- No screw pump is required for feed into desludger and ordinary pump is adequate.
- Cleaning of filter cloth is difficult in a filter press whilst desludger requires an easily removable filter bag.
- In a desludger more cycles of sludge removal is possible.
- Operation of filter press requires more labour and is intensive whilst desludger is automatic in operation.
- Surrounding environment of a filter press operation is messy.



AUTOMATION

Automation ensures that sludge is sent at periodical intervals to the deslugger for a fixed period of time. Deslugger will rotate for a fixed period of time for biosolids to accumulate inside the bag.

TECHNICAL SPECIFICATION

MODEL NO	CFD 300	CFD 400	CFD 500	CFD 600	CFD 700	CFD 800	CFD 900	CFD 1000
CAPACITY	UPTO 50 KLD	UPTO 100 KLD	UPTO 200 KLD	UPTO 300 KLD	UPTO 500 KLD	UPTO 800 KLD	UPTO 900 KLD	UPTO 1000 KLD
BASKET DIA	200 MM	300 MM	380 MM	500 MM	600 MM	600 MM	800 MM	1220 MM
CAKE CAPACITY	10 LT	13 LT	20 LT	50 LT	70 LT	100 LT	140 LT	220 LT
MOTOR CAPACITY	0.75 HP	1 HP	2 HP	3 HP	3 HP	3 HP	5 HP	10 HP
BASE DIMENSION	600 MM X 600 MM	750 MM X 750 MM	750 MM X 750 MM	1000 MM X 1000 MM	1000 MM X 1000 MM	1500x1500	1500x1500	1500x1500
INLET, OUTLET PIPE	25 MM	40 MM	50 MM	50 MM	50 MM	50 MM	50 MM	50 MM
DRAIN PIPE	20 MM	20 MM	20 MM	25 MM	25 MM	40 MM	40 MM	40 MM
WEIGHT	200 KGS	250 KGS	300 KGS	400 KGS	450 KGS	500 KGS	550 KGS	650 KGS

MATERIAL OF CONSTRUCTION : MS /SS FIXING ON ANTI-VIBRATION MOUNTS

AS PART OF PRODUCT IMPROVEMENT, SOME SPECIFICATIONS MAY BE CHANGED