

Lamella Plate Clarifiers



Create, Service, Quality, Win-Win

Principle

The principle of the equipment is that after the raw water flows into the equipment through the inlet pipe, it is evenly distributed from the distribution chamber to the small holes at the bottom of the sides of each inclined plate. Then it flows up to the overflow weir and then is discharged. After the sludge adheres to the inclined plate, it slides down to the outside of the sludge tank discharge tank.

Secondary coagulation and rectification effect

The inclined pipe also has the effect of secondary coagulation and rectification. The liquid upflow and the sludge slide downwards, causing a slow stirring flow inside the inclined tube, so that the tiny rubber plumes suspended in the water that are difficult to settle collide and form a relatively the large rubber plume settles.

Function

The equipment is mainly composed of an upper inclined body, an inclined plate, a lower sedimentation chamber, a lower mud scraper arm, an overflow weir, and a driving part.

Gravity sedimentation is always the most effective solid-state separator and the most favored by engineers. In order to effectively precipitate solids, a larger settlement area or a more frequent settling time is often required.

Therefore, the " **Lamella Plate Clarifiers** " was developed to solve the above problems. This equipment can effectively save floor space and reduce residence time.

Precipitation efficiency/flow rate graph

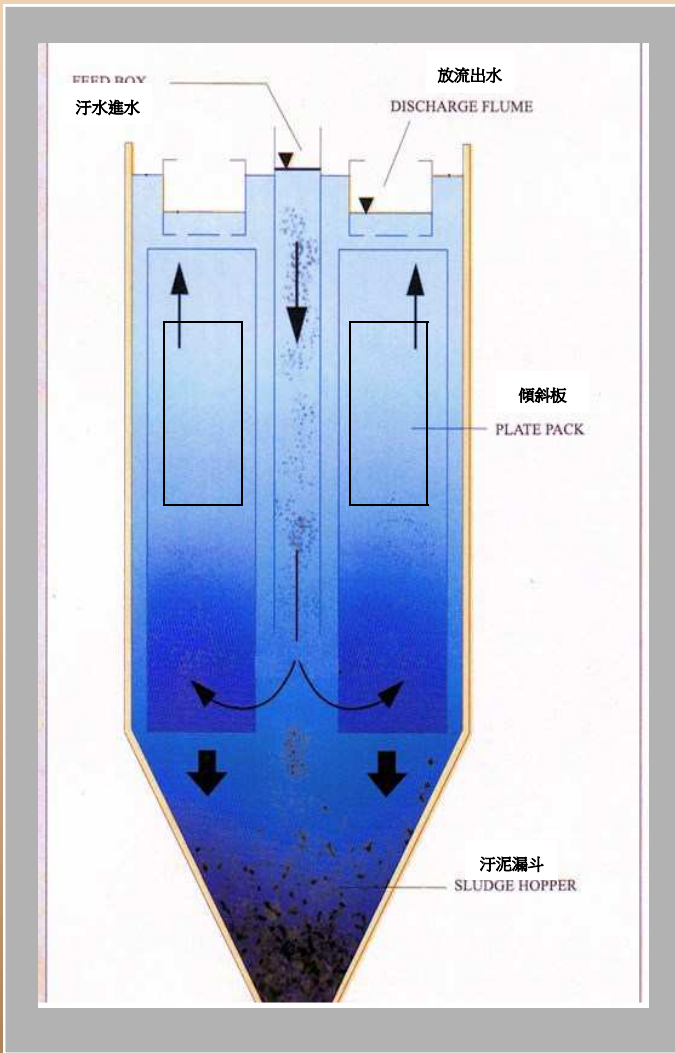
ss/ppm Outflow



(It is for chemical treatment design reference.)

Features

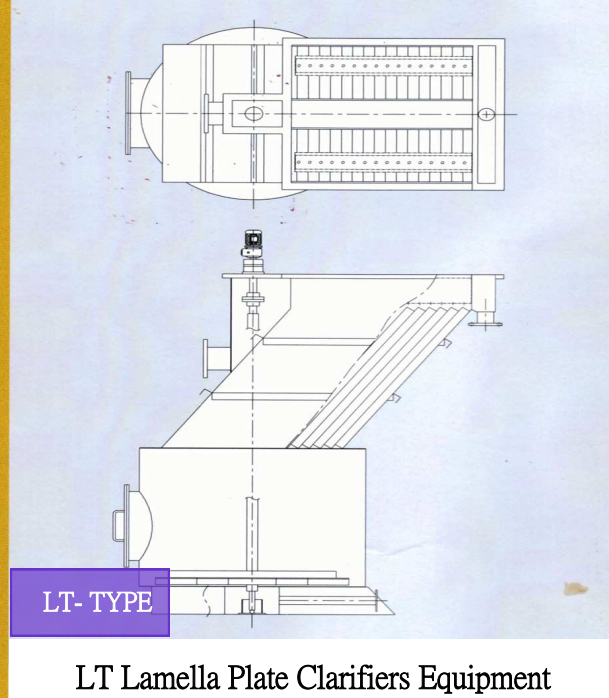
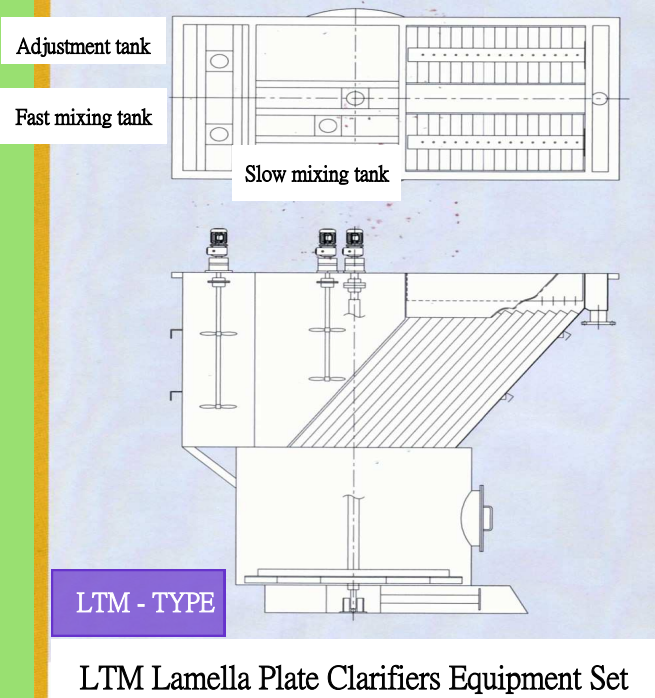
1. High-efficiency removal effect, so the required area is about 30% of the general traditional sedimentation tank, and the maximum can reach 10%.
2. This equipment uses an inclined plate, so there is no problem of blockage of the general inclined tube.
3. Simple maintenance and cleaning.
4. This is set as a set of equipment. All manufactured in the factory. So the installation is simple, fast, and efficient to save on-site installation time.
5. The operation is simple for time-saving and labor-saving. And it can reduce personnel time.
6. 10 times. It is equivalent to the sedimentation area of a traditional sedimentation tank, which saves space and can effectively use the land.



Scope of Application

1. Industrial wastewater treatment.
2. Sludge thickening.
3. Process water recycling treatment.
4. Rainwater and reclaimed water are recycled for use.
5. Groundwater and surface water treatment.
6. Reuse of precipitation water in mining industry.
7. Filter the backwash water for precipitation and reuse.





Specification

Type	Dimensions L*W*H(mm)	Settlement area (M ²)	Mud Scraper power (KW)	Process Capacity (M ³ /Hr)	Operating weight (KGS)
LT-12	2500*1600*3050	12	0.18	6~12	6,620
LT-25	3150*1850*3750	25	0.18	12.5~25	9,750
LT-40	3550*2100*4150	40	0.25	20~40	17,100
LT-60	4000*2550*4450	60	0.25	30~60	19,850
LT-80	4350*2900*4400	80	0.37	40~80	26,540
LT-100	4600*3200*4600	100	0.37	50~100	31,400
LT-125	4950*3200*5100	125	0.55	62~125	40,950
LT-150	5250*3550*5300	150	0.55	75~150	44,850
LT-190	5750*4000*5300	190	0.75	95~190	50,950

Note: Please select the surface load according to the water quality characteristics.
(Biological system is preferably 0.5~0.7, chemical system is preferably 0.7~1.0)

※ Different specification sizes can be made for different requirement. But we have the right to modify it.



CYUAN TAI INDUSTRY CO., LTD.

TEL:+886-2-24291528

FAX:+886-2-24226054

No. 164-1, Jhongping St., Jhongshan District, Keelung City 203, TAIWAN, R. O. C

<http://www.cyuantai.com>

Eymail:cyuantai2008@gmail.com