



Lamella Clarifier Separation Mechanism

Lamella Clarifier system is based on the "shallow tank theory" of Professor Hazen put forward by the early 20th century.

Core theory is : sedimentation performance depends on effective settling area, nothing to do with sedimentation depth. Lamella clarifier system settling area is inclined plate projection area accumulation.

1. Higher efficiency, smaller footprint: inclined plates extended to 1.5m-2m, separation efficiency improved (higher 1.5-2.0 times) comparing with radial flow clarifier and horizontal clarifier and save 80% of footprint.
2. Equal water distribution and synchronous water collection .No blind angle and vortex. The whole tank is in operation of equal hydraulic load.
3. Inclined plates Chokeless: plates are of angle 60 degrees, spacing between 80-100 mm, back-washing device used.
4. Strong and durable: Adopt 5-6mm hard UPVC plates, 8 mm PP plates ,stainless steel plates as separation plate, module embedded installation, high strength, easy disassembling and maintenance.
5. Sludge discharge smoothly : no blind angle. Sludge is discharged by negative pressure suction.

Application:

Industrial wastewater treatment: electric, semiconductor, electroplating, chemical wastewater etc . Replace traditional secondary clarifier after biological treatment. WWTP upgrade, River, lake treatment.



Model	Capacity (m ³ /h)	Module Dimension (m)				Sludge scraper LST2 Em	Module Nozzle Set (DN) G1/2" G3/4"			
		L	W	LST1 H	LST2 H		进水口 Inlet (A)	出水口 Outlet (B)	排泥口 Sludge outlet (C)	回流口 Backwash (D)
LST-005	~5	2.6	1.6	2.8	3.6/2.5	0.25	80	50	50	50
LST-010	~10	3.4	1.6	3.6	3.6/3.0	0.25	100	60	50	50
LST-020	~20	3.4	2.2	3.6	3.6/3.0	0.25	150	100	50	50
LST-030	~30	4.2	2.2	4.0	3.6/3.0	0.25	150	150	50	50
LST-040	~40	4.0	2.8	4.0	3.6/3.0	0.25	200	150	50	50
LST-050	~50	4.7	2.8	4.0	3.6/3.0	0.25	200	200	50	50
LST-060	~60	4.8	3.0	4.0	3.6/3.0	0.25	250	200	50	50
LST-080	~80	5.1	3.4	4.0	4.0/3.2	0.25	250	200	80	50
LST-090	~90	5.3	3.0	4.0	4.0/3.2	0.25x2	250	250	80x2	50
LST-100	~100	7.1	3.0	4.0	4.0/3.2	0.25x2	250	250	80x2	50
LST-120	~120	8.3	3.2	4.0	4.0/3.2	0.25x2	300	300	80x2	50
LST-150	~150	9.8	3.2	4.0	4.0/3.2	0.25x2	350	300	80x2	50



Note :
Due to keeping innovation,
the specification and
Machine pictures or color
are subject to alteration
without notice!