

Tube settlers

UASB Three Phase Separator



Create, Service, Quality, Win-Win

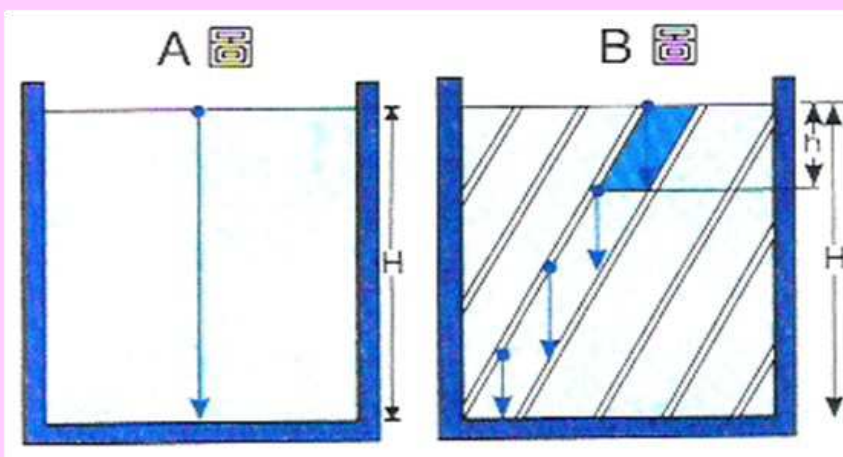
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Characteristic

- Slanting pipes can reduce the floor space of precipitate tank and increase the effect of precipitate

For picture A, the depth of precipitate tank is H . The pellets of top level need to subside through depth H . But for the same depth of precipitate tank as picture B, with the grid boards, it just need depth h . It can shorten h/H settlement time. In other words, the slash part is regarded as an independent tank. That will increase settlement area. It just likes to increase H/h times of precipitate tanks and to add H/h times of effectiveness.

The H/h of Slanting pipe is about 5, same principle as consequent precipitate tank.



- Secondary coagulation effect

The up-flow of fluid and the sludge, depositing on the inclined wall, slide and flow down. The action causes stirring flows in slanting pipes slowly. By the suspension colloid colliding to each other, it becomes a bigger colloid to subside.

Rectification

Because of the subdivision of process, the raw water becomes laminar flow in pipes. So we can get almost perfect precipitation effect. Generally, we indicates the state of water flow by Reynolds number. When Reynolds number is lower than 2000, it is laminar flow. And Reynolds number of slanting pipe is very low. Its flow rate is usually 30~10.

Structure

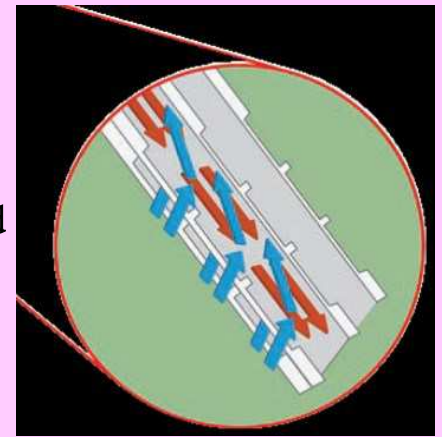
The slanting pipes just need to set the single inclined tube phantom in the sedimentation tank to perform its function.

The inclined tube phantom is to connect the inclined angle tube with a horizontal angle of 60 degrees. It is a crisscross structure in which the adjacent pipes are arranged in opposite directions to each other and are combined. The shape of a phantom becomes the cuboid standard. And the pipe diameter is 50mm.

Product Characteristic

1. Good water quality

Due to the "rectification effect" and "secondary coagulation effect", it can reliably capture the colloid that are not easy to settle. Among the various sedimentation facilities, the water quality treated by the inclined pipe is the best. And it can save the consumption of coagulant.



2. High strength

In terms of structure, although ABS board with a thickness of 1mm or less is used. But because it is a composite structure, it is light in weight and strong in toughness, and can withstand a weight of more than 500 kilograms.

3. Easy to install

The installation operation is simple and convenient, only need to put the inclined tube on the support frame to complete.

4. Any sludge collection facility can be used

Owing to there is no obstacle at the bottom of the pool, you can freely choose the direction of sludge collection. Sludge collection machine, underwater mud scraper, or any sludge collection facilities such as conveyor belts can be installed. And the space under the inclined tube phantom is very wide and large, so inspection and maintenance are very easy.

5. Not affected by external factors

Precipitation is in an inclined tube. So it is not affected by external factors such as dense flow and tilts the tube phantom in the water. Therefore there is no snow damage.

6. Beautiful appearance and easy to maintain

No obstacles such as hanging beams are different from inclined plates. Therefore, it is easy to see the water quality from the surface of the sedimentation tank. And the inclined tube phantom has only one layer. In terms of structure, there is no tortuosity and the pipe wall is smooth, so maintenance is very convenient.

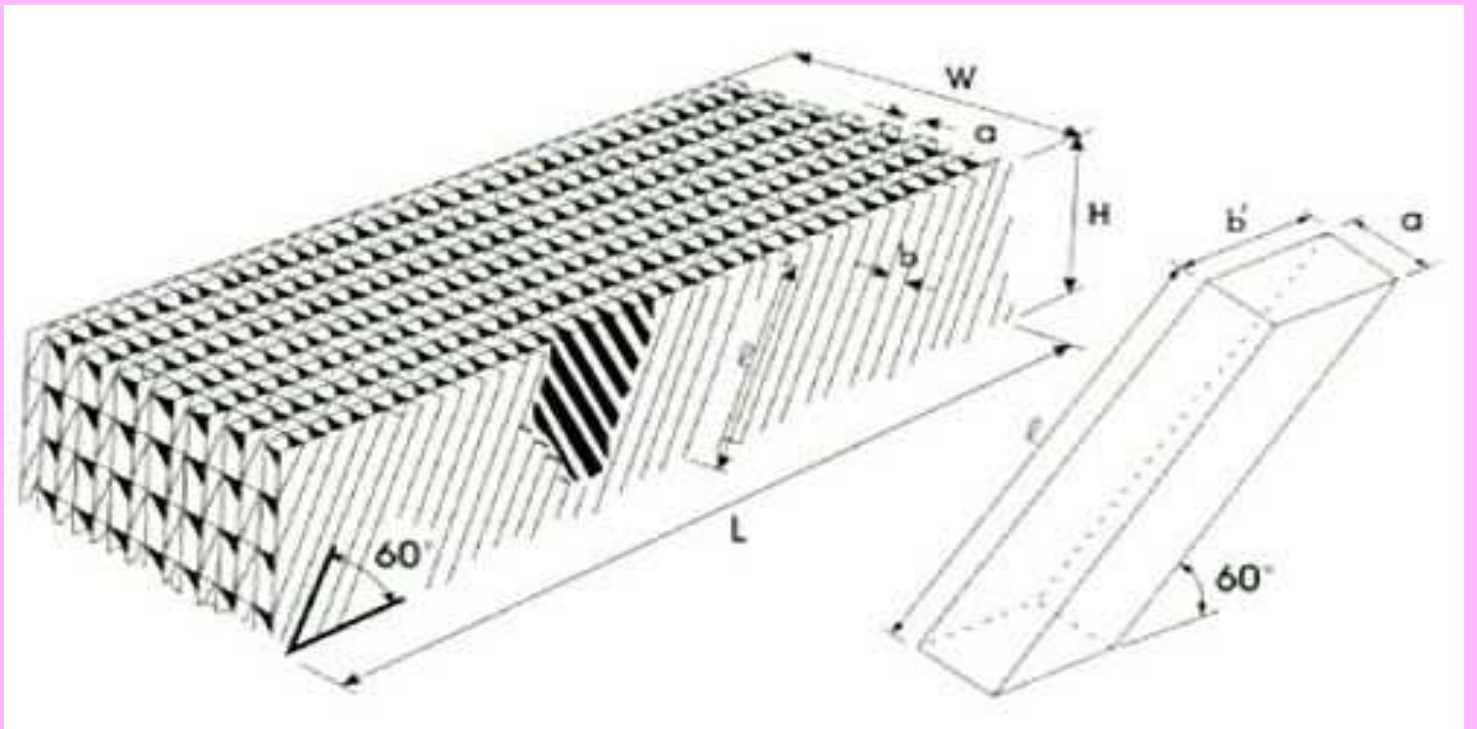
7. Any shape of sedimentation tank can be installed without restriction

Cross flow sedimentation tank, round, square sedimentation tank, any shape of sedimentation tank can be installed.

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Specifications -Type-1

TYPE RM	a	b	l	L	W	H	Board thickness	Pipe diameter	Tube row	Material
C-52	50	50	600	2500	500	520	0.6~1.0	50	10	ABS
C-75	50	50	865	2500	500	750	0.8~1.0	50	10	ABS



Specifications -Type-2

TYPE RM	a	b	l	L	W	H	Board thickness	Pipe diameter	Tube row	Material
L3-52	84.9	39.2~45		2400	515	520	0.8	50	6	ABS
L3-75	84.9	39.2		2400	515	750	0.8	50	6	ABS



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