Water Engineering Technologies FZC

# TUBE SETTLER

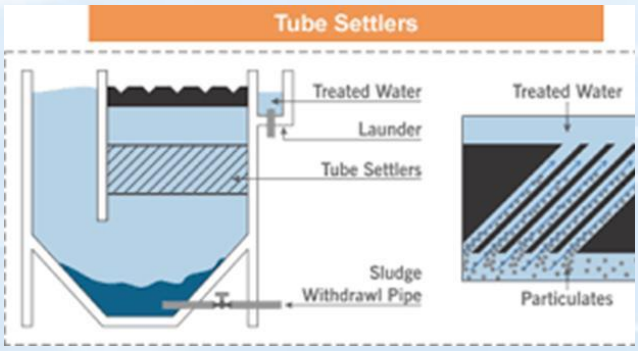
**WET tube settler** is a cost-effective solution for wastewater plants to increase treatment capacity, reduce new installation footprints, improve effluent water quality, and decrease operating costs. We utilize our knowledge and experience with the clarification process to provide complete tube settler systems that are custom-engineered for any application.

## KEY FEATURES:

- Robust design made by high quality Carbon Steel material with epoxy paint from inside and outside.
- Compact design, fraction of the size of conventional system.
- Capacity can be easily upgraded by simply adding parallel tube settler.
- Operation at higher suspended solid load.
- High efficiency TSS removal.
- Low HRT required.
- Non Clogging design.
- Can be easily retrofitted.
- Simple in operation, no skilled labor required to operate the plant.

## WORKING PRINCIPLE:

Tube settlers increase the settling capacity of circular clarifiers and/or rectangular sedimentation basins by reducing the vertical distance. The floc particles would settle before agglomerating to form larger particles. The settlers use multiple tubular channels sloped at an angle of 60° and adjacent to each other, which combine to form an increased effective settling area. This provides for a particle settling depth that is significantly less than the settling depth of a conventional clarifier, reducing settling times. Tube settlers capture the settle able fine floc that escapes the clarification zone beneath the tube settlers and allows the larger floc to travel to the tank bottom in a more settle able form. The settler's channel collects solids into a compact mass which promotes the solids to Slide down the tube channel.




## BENEFITS:

- Increase settling area without increasing footprint
- Minimize turbidity load on filters
- Cut coagulant dosages by up to half
- Flow of existing water treatment plants can be increased through the addition of tube settlers.
- Tube settlers increase allowable flow capacity by expanding settling capacity and increasing the solids removal rate in settling tanks

The information provided in this brochure contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as describe or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of the contracts. Subject to change without prior notice.

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