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Water Technology Solutions

35 YEARS of excellence
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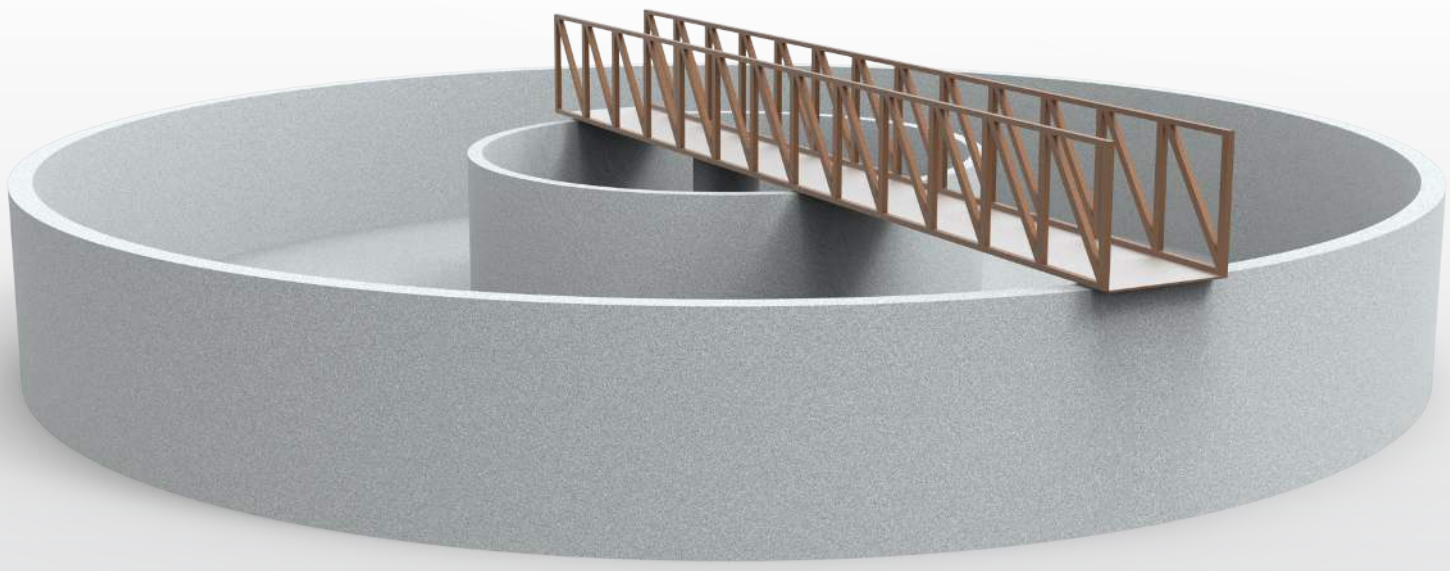
CLARIFLOCCULATOR



CLARIFLOCCULATOR

Application:

The clariflocculator is a secondary treatment unit. It consists of two mechanisms, the flocculator mechanism and the clarifier scrapper mechanism. Adroit's clariflocculators are designed for handling low TSS solids. Our design ensures good flocculation in optimal time, consuming minimum flocculants. The efficiency of the equipment is ensured by critically considering design criteria such as velocity gradient G, projected flocculator paddle area, mixing speeds etc.

Operation:

In the Clariflocculator, the water enters the flocculator, where the flocculating paddles enhance flocculation of the feed solids and supports formation of flocs. A flocculation compartment with a retention time of 15 to 45 minutes hydraulically separates the flocculation and clarification zones within the tank. As heavy particles entrap into the flocs and settle to the bottom, the liquid flows upward in the clarifier zone. The clarified liquid is discharged over a peripheral weir/submerged orifices into the peripheral launder. The deposited sludge is raked to the bottom near the central collection pit from where it is routed to the sludge chamber and discharged resulting in high-quality overflow or supernatant water.

Application Area:

> Municipal Water / Wastewater Treatment.

> ETP / CETP.

Features:

- Process Design as per CPHEEO guidelines.
- Structural Design as per client requirement/tender conditions.
- High torque reputed make gear drive with overload protection.
- Easy Installation.
- Low cost of Capital, operation, and maintenance.

Technical Specification:

- Type: Full Bridge/ Half Bridge / Centrally Driven / Peripheral Driven.
- Size – Dia up to 60m.
- Depth – SWD up to 5m.
- MOC – Mild Steel, Stainless Steel (AISI 304 & AISI 316) or as per customer requirement.

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