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Specialist equipment to separate solids from liquids worldwide

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## SEDIMENTATION TANK

PSD's Sedimentation Tanks are designed to encourage the separation of dense particles from fluids and are often used in conjunction with a flocculation system and S4DP Centrifuge. Flocculated process fluid is fed to the Sedimentation Tank where flocculated solids settle towards the low-level outlets and low solids content fluid passes over a system of weirs to high-level discharge pipework. Fluid with a high solids content is extracted from the low-level outlets and fed to a centrifuge for dewatering. The use of a Sedimentation Tank in conjunction with an S4DP Centrifuge can enable flow rates of up to 150m<sup>3</sup>/hr of process fluid to be treated.

The Sedimentation Tank is based on a standard type 1CC, 20 foot freight container and is complete with ISO corner castings. The main section of the tank is mounted within a heavy-duty hollow section steel frame measuring 6058x2438x2591mm high and when the bolt-on side pieces are in place for operation, the tank measures 6058x4985x2710mm high. Each bolt-on side piece is fitted with hollow section stiffeners and heavy duty lifting eyes.



The unit is fitted with an electro-hydraulic power pack with 4kW motor driving a low speed, high torque Staffa motor, which turns a vertical shaft agitator. The agitator is equipped with low and mid level blade assemblies. A fixed ladder provides access to flowforge decking on the upper surface.

For transport, the main section of the tank can be shipped as a type 1CC freight container, after removal of the bolt-on side pieces.

## **TECHNICAL DATA:**

**Power:** 380 to 415V, 50 Hz.

4kW electric motor with direct-on-line starting.

Supplied with 15m of 25mm<sup>2</sup> steel wire armoured 3-phase and earth power cable.

**Running current:** 8A per phase.

**Overall size:** For transit: 6058x2438x2591mm high plus 2 No. bolt-on side pieces.

For work: 6058x4985x2710mm high.

Weight: Dry for transit: 7 Tonnes.

Wet for work: 32 Tonnes.

**Volume & capacity:** Process capacity: Up to 150m<sup>3</sup>/hr.

Process volume: 24.5m<sup>3</sup>. Storage volume: 30m<sup>3</sup>.

Fluid feed: 2 No. mid-level 6" flanged inlets.

1 No. mid-level 4" flanged inlet.

Fluids discharge: 8 No. high-level 6" flanged outlets for low solids content fluid.

2 No. low-level 4" flanged outlets for high solids content fluid.

Auxiliary pipework: Mid-level valved 2" female Bauer inlet.

2 No. mid-level 4" flanged outlets for recirculation.