

SERIES
FHP

FLOATING DECANTERS



Structural Features

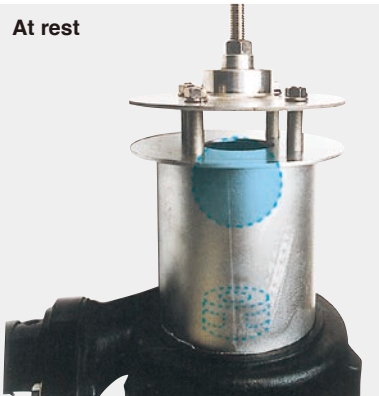
1 Float

The float sustains a submersible pump by buoyancy at an appropriate position. Made of fiber reinforced plastic (FRP), the float is filled with polystyrene foam which prevents the loss of buoyancy in case the float is broken.

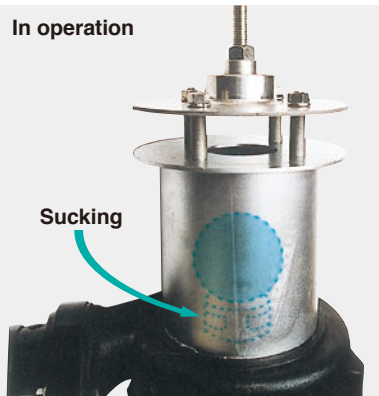
2 Intake Check Ball

A check ball incorporated in the intake closes the suction mouth by buoyancy when the pump stops operating thus preventing the inflow of floating sludge. During operation, the ball is sucked in by the pump's suction power to take in supernatant liquid.

At rest



In operation



3 Pumping Section

Each component, such as dual inside mechanical seal, motor protector, and anti-wicking cable entry, represents Tsurumi's outstanding expertise.

Anti-sludge Sensor Cable

Amplifier Unit Box

Guide Support

Guide Hook

Float 1

Sensor Cleaning Hose
(not supplied)

Suction Mouth

Anti-sludge Sensor 4

2 Intake Check Ball

Discharge Hose
(not supplied)

Sensor Cleaner 5

3 Submersible Pump

Guide Pipe
(not supplied)

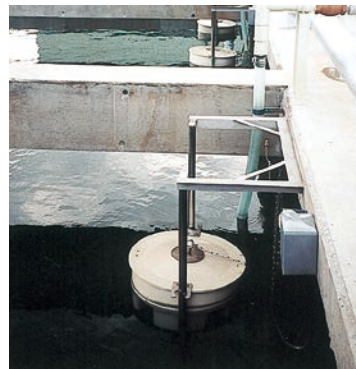
Stopper

Guide Pipe Fixing Plate

Optional accessories

4 Anti-sludge Sensor

When the amount of light transmitted from an emitter via glass fibers is reduced by a certain density of sludge existing in the liquid, the sensor identifies the light amount and sends corresponding signals to the control panel to stop or operate the pump not to suck up sludge.



5 Sensor Cleaner

The sensor cleaner spouts a jet of clean water from its nozzle to wash the light emitter and receiver at fixed intervals. The pressurized water can be treated water coming from a submersible pump installed in the spray pump tank.

Recommendation;

- The washing shall be performed for 5 minutes every 1.5 hours during the aeration process.
- The amount of washing water shall be regulated with a valve over a range of 10 to 20 L/min and the pressure, 0.5 to 1 kg/cm².



We reserve the right to change the specifications and designs without prior notice. The OO series and model OO are indicated with our series/model codes in this catalog.

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