



**TSURUMI PUMP**

Decanting pump

The sludge surface monitoring mechanism used in the FHP pump ensures that only supernatant water is discharged without any entrapment of sediments. Applications are numerous in sewage treatment, industrial waste water treatment and agriculture. The FHP pump could even be used to draw decanted river water from a settling pond.





## Virtues

Installed in a decanting pit, the FHP pump goes up and down with the liquid. It can suck clear water from between the sludge at the bottom and foam or floating debris at the surface. Once switched on, it will start pumping if its inlet is in clear water. It will continue emptying the pit (and going down) until a photosensor warns of the water near the pump inlet becoming cloudy. The installation is sturdy enough for pits in which incoming flow can be violent.



## Float

The float holds a submersible pump at a preset depth under the liquid's surface. Made of fibreglass reinforced plastic (FRP), the float is filled with polystyrene foam which prevents the loss of buoyancy in case the float's skin is fractured.



## Intake check ball

A check ball incorporated in the intake closes the suction opening 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 only.



## Anti-sludge sensor

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 amount of light and signals the control panel to start or stop the pump so as to suck only clear liquid.

## Pumping section

Each component, such as shaft seal, motor protection, and watertight cable, represents Tsurumi's outstanding expertise.



