

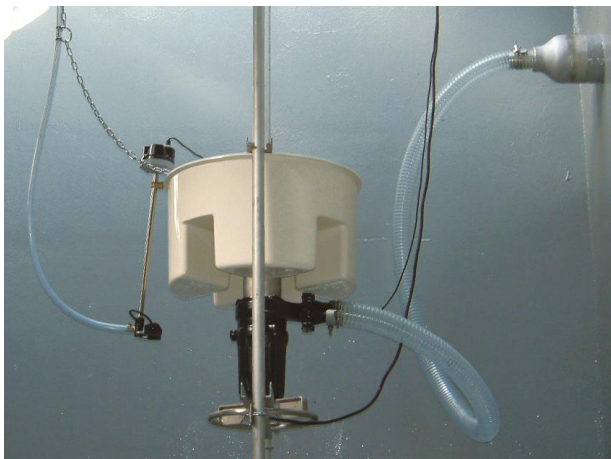
Floating Decanters: FHP

Tsurumi's FHP floating decanters are used in the final stages of wastewater treatment to discharge supernatant clear water in the sedimentation tank or settling tanks, also used especially in Sequencing Batch Reactors.

FHP has a reinforced plastic **float** which allows the submersible pump to adjust the position according to the fluctuating water level. This is particularly important to keep the pump at the surface level when pumping out the clear supernatant water, which is free of precipitate and other settled solids.



Tsurumi has provided anti-sludge sensor in FHP for automatic sensing of the sludge around the vicinity of pump's suction. As the function of FHP is to discharge clear supernatant water free from sediments, it is essential to ascertain that sludge does not enter into the pump along with the liquid. To that end, anti-sludge sensors in FHP identifies the presence of sludge and differentiates it according to the amount of light that it senses. When there is reduction of light into this sensor due to the presence of sludge, it sends a signal to the control panel to stop the pump. This sensor comes with a sensor cleaner which will prevent any sludge from obstructing it.



Installation photograph in a tank without water

FHP, floating decanters, can be used in other applications as well when discharging supernatant liquid is the requirement. For example, in aerobic tank with batch reaction system when clear water need to be removed from the top of the tank.