

HeadCell® Floatables Spray System*

Collection systems with heavy FOG loading can now stop FOG build-up in grit basins.

Wastewater Application Sheet

Applications

- Retrofit into existing plants experiencing grease issues
- New installs for plants with known grease issues
- Can be used in covered or open top installations

Advantages

- Maintenance friendly system prevents tank grease accumulation reducing your maintenance costs
- Adjustable water use, allows using NPW only when needed
- HeadCell control panel integration allows full automation

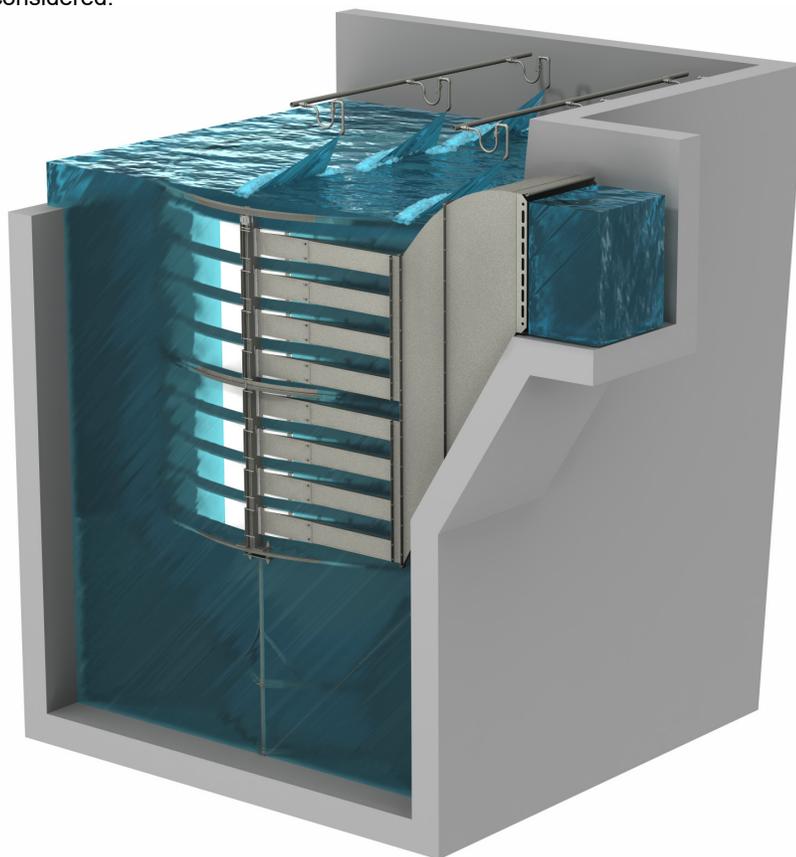
Spray System Eliminates Scum, FOG and Floatables Accumulation

The collection of grease on the water surface of sedimentation basins is not uncommon in wastewater treatment plants where skimming devices are commonly used. In the HeadCell basin scum accumulation is not typical but has been noticed when the collection system has a significant grease component or system loading rates are well below design. High ambient temperatures also tend to contribute to this phenomenon. Recognizing that skimming systems help manage floatables accumulations Hydro International is pleased to now offer a Floatables Spray System.

While proper maintenance and access are always part of an effective installation the HeadCell Floatables Spray system provides automated scum control. Intermittent rinsing of the water surface efficiently mobilizes accumulated floatables towards the effluent weir. Running only one to five minutes per hour using 4-20 gal/min (0.25-1.25 L/s), depending on unit size, the system was developed and tested to eliminate scum. Running hourly ensures the scum layer never builds.

Hydro International supplies the spray system and incorporates timer controls into the HeadCell system control panel. Hydro also provides a pressure gauge, strainer and solenoid to be installed prior to the spray header to ensure a clean NPW source that will not plug the nozzles. The spray system is mounted to the HeadCell cover (provided by others), the cover must include access hatches for each nozzle. To allow the system to be operated manually a manual bypass of the solenoid may also be considered.

HeadCell systems with a Floatables Control System can eliminate persistent FOG problems and reduce maintenance.



HeadCell with Floatables Control System in Tank



* Patent Pending – Application Number 62/447,688