

Built on Tradition



Highland Tank®



HighCycle Washwater Recycle System

HT-2507

The HighCycle Wash Water Recycle System is designed to process wastewater discharged from vehicle cleaning operations at military, commercial and municipal maintenance facilities.

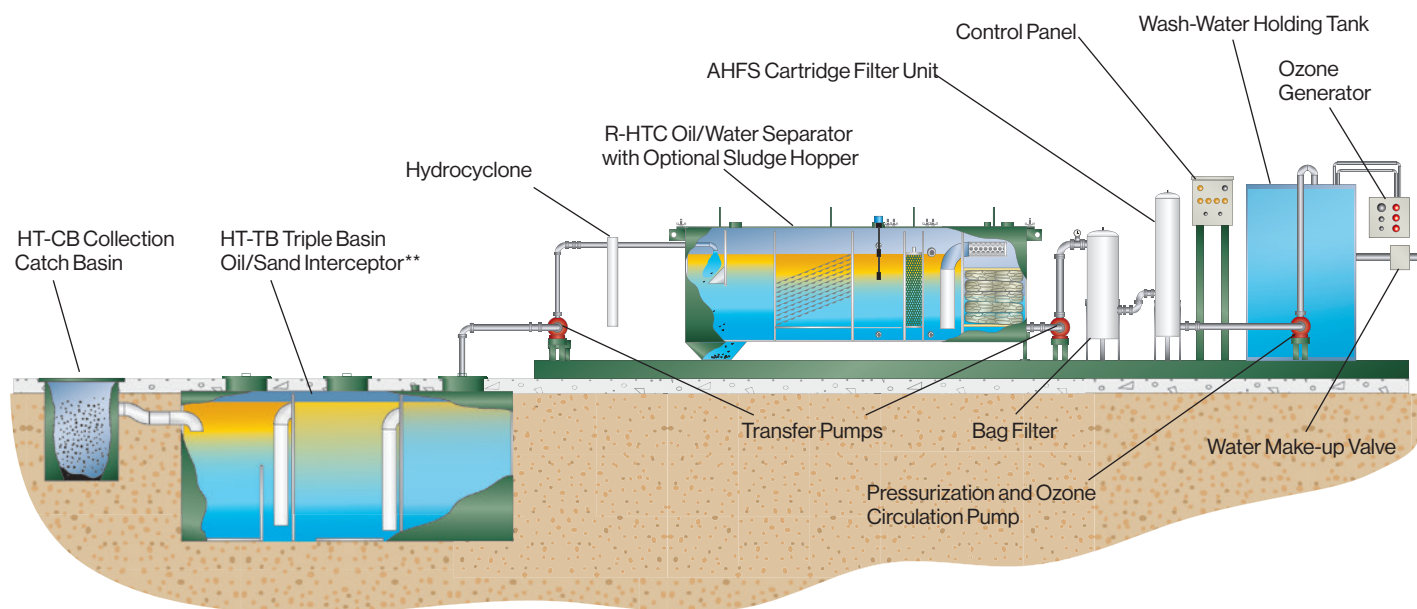
This modular system is capable of effectively removing sand, grit, settleable oily-coated solids, free-floating hydrocarbons and mechanically emulsified or semi-miscible oils. Wastewater can be either recycled or discharged, according to the facility's proper discharge procedures.

Highland Tank offers a wide variety of standard systems for most vehicle washing applications. In addition, custom-built systems can be designed and manufactured for specific applications.

Advantages

- Rugged compact design
- Proven performance of Highland Tank Oil/Water Separators and Interceptors
- Modular design allows for closed-loop recycle system, partial sewer discharge or total discharge configurations
- Eliminates the need for dangerous treatment chemicals
- Designed for minimal service and low operating cost

Drawing & Details



How It Works

The HighCycle is easy to install, operate and maintain. Vehicle wash water is collected in the Collection Catch Basin (HT-CB) where trash, sand and grit are removed. Wash water flows by a gravity drain to the Triple Basin Interceptor (HT-TB) for additional solids and oil removal.

Water is drawn from the HT-TB's effluent compartment using a sensor-controlled, self-priming transfer pump and forced through the hydrocyclone where additional solid particles are removed and transferred back to the interceptor.

The workhorse of the system is the high performance oil/water separator (R-HTC) with Corella® and Petro-Screen Coalescers to effectively remove free oils down to 20 microns. A high-oil level sensor in the R-HTC will indicate the need for stored oil removal.

At this stage, a second sensor-controlled, self-priming transfer pump draws water from the R-HTC clear-well and forces it through the bag-filter for final solids removal.

Pressure gauges on either side of the bag filter unit permit manual monitoring of solids collection.

The final oil removal process is performed by the Advanced Hydrocarbon Filtration System (AHFS). These specially treated oleophilic cartridge filters remove mechanically emulsified and semi-miscible oils. Cartridges can be visually inspected for oil capacity. They are easily replaced in a matter of minutes, requiring no special tools, equipment or back washing.

A clean water storage tank is provided as a reservoir for the final ozone treatment process. Ozone, which helps purify the wastewater, is produced on site in the Ozone Generator. Ozone is added to oxidize any remaining contaminants and keep the water free from bacteria and odor.

The final pump recirculates the water in the tank and completes the cycle by providing a clean, pressurized water source for the facility's vehicle wash system.

Model HSC	System Rate Gal/Min	Oil/Sand Catch Basin Model	R-HTC Oil/Water Interceptor Model	Filter Skid Separator Model	Footprint Approximate
10	10	CCB – 55	550	300	8'-0" x 6'-0" x 2'-0"
25	25	CCB – 125	550	600	8'-0" x 6'-0" x 2'-0"
50	50	CCB – 150	1,000	900	9'-0" x 6'-0" x 3'-0"

Notes: Filtration component skid dimensions subject to change as required by site and application requirements. Interceptor size may vary based on sludge and oil storage requirements and individual site conditions.



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