



oil/water separation

**advanced hydrocarbon filtration system****HT-2503****PRODUCT DETAILS**

Advanced Hydrocarbon Filtration Systems (AHFS) are used in applications where hydrocarbon removal beyond the capability of a normal oil/water separator is necessary.

These robust, field-proven filtration systems provide efficient and cost-effective removal of a variety of hydrocarbons, ranging from BTEX to crude oil, from water. They also help safeguard the environment and personnel from harmful persistent chemicals and pollutants.

AHFSs contain oleophilic filters that utilize a patented hydrocarbon removal technology that instantly bonds

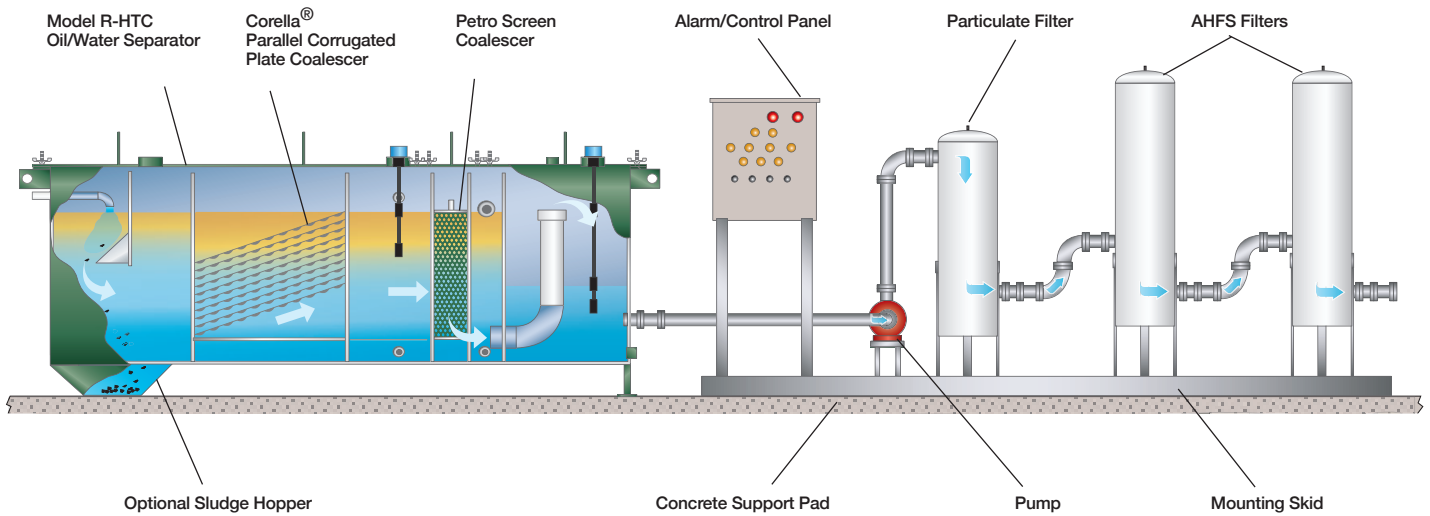
hydrocarbons to the filter media, making them hydrophobic and viscoelastic. This property completely removes the hydrocarbons from the water.

The single-pass efficiency through the filter cartridges is often as high as 99.9% with very little pressure drop created by oil saturation.

Our custom built AHFSs are skid-mounted with filters, pumps, motors, controls, valves, piping and wiring. By designing our AHFS from the ground up, Highland Tank's engineers can assemble all the components necessary to meet your specific applications.

**Features and Benefits**

- » Ideal for use by a diverse range of industries
- » Consistently high hydrocarbon removal efficiency
- » Ensures compliance with environmental regulations
- » Durable construction & simple servicing
- » Compact design - small footprint
- » Easy operation & maintenance
- » Minimizes waste disposal



**How It Works**

The Advanced Hydrocarbon Filtration System (AHFS) is engineered to enhance the performance of any oil/water separator system.

The influent wastewater passes through the high-performance R-HTC oil/water separator with Corella® and Petro-Screen coalescers designed for gravity separation of free oils along with settleable solids from water.

These wastes accumulate in the separator while the wastewater passes through the effluent

transfer pipes to the effluent clearwell. The effluent pump's automatic level controls start and stop the pump at predetermined levels.

The effluent is then pumped through the AHFS consisting of particulate and oleophilic filters that utilize a patented hydrocarbon removal technology.

Oil and grease, total petroleum hydrocarbons, dissolved hydrocarbons, solvents, Volatile

Organic Compounds (VOC) and organically bound metals are removed here prior to the final discharge of the effluent.

In many applications, especially MTBE remediation, Granular Activated Carbon (GAC) is added to the treatment system. GAC offers an excellent final polishing step to meet critical discharge levels.

Model	Housing Number of Cartridges	Diameter Approx.	Flow Rate Gal/Min	Oil Capacity Approx.		Treatment Capacity 10 mg Removal Rate Approx. Gallons
				Kg.	Lb.	
4-40	4	7.5"	80	3.5	7.7	93,000
12-40	12	11.0"	240	10.5	23.1	279,000
21-40	21	14.5"	420	18.5	40.7	488,000
33-40	33	17.5"	660	29.0	63.8	767,000
50-40	50	24.0"	1,000	44.0	96.8	1,162,000



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