



oil/water separation

advanced hydrocarbon filtration system

HT-2503

## PRODUCT DETAILS

Advanced Hydrocarbon Filtration Systems (AHFS) are used when hydrocarbon removal beyond the free oil removal capability of Highland Tank's oil/water separators is necessary.

These robust, field-proven filtration systems provide efficient and cost-effective removal of a wide variety of hydrocarbons, ranging from BTEX to crude oil. They also help safeguard the environment and personnel from harmful persistent chemicals and pollutants. AHFS are highly customized for each application. They generally consist of solids removal to very low particle size and removal of hydrocarbons to very low levels using a

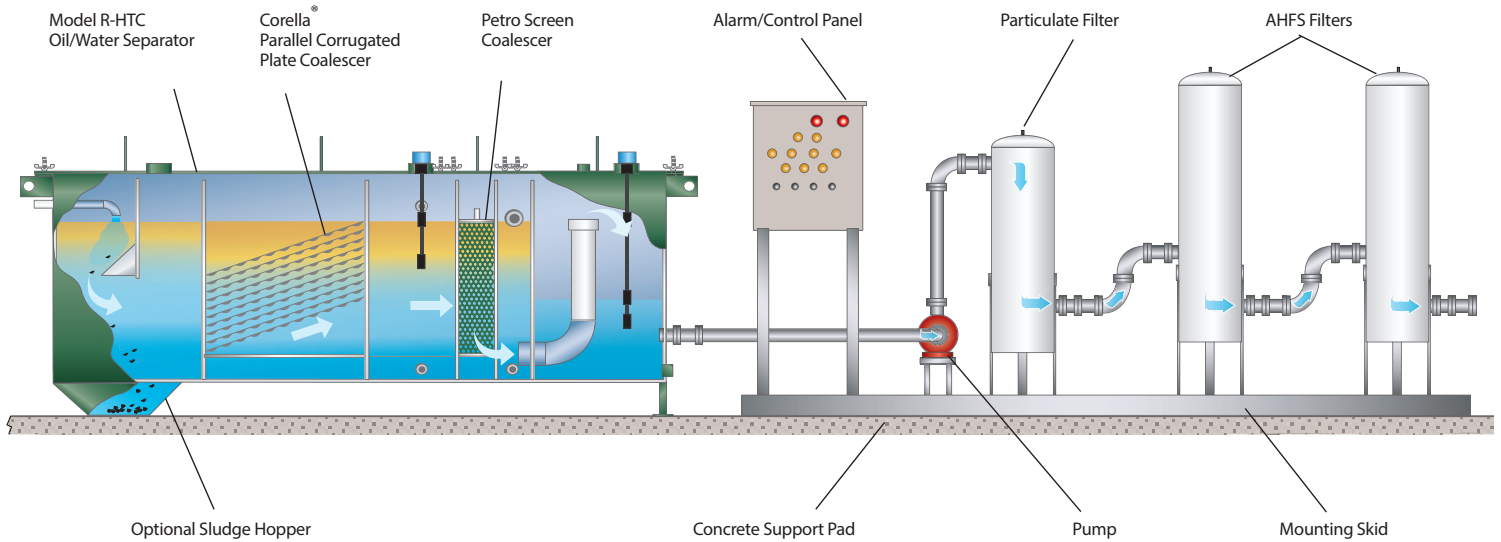
variety of cartridge filter options selected based on the hydrocarbons to be removed and the target discharge levels.

AHFS can be offered to match the flow rate of any Highland Tank oil/water separator. Although they are frequently coupled with an aboveground R\_HTC separator, we have offered a number of AHFS skids with our underground model HTC separators as well.

By designing our AHFS from the ground up, Highland Tank's engineers can incorporate pumps/motors, sensors, control panels, filter vessels, and any other components necessary to meet the needs of your specific application.

For critical discharge applications, Highland Tank can offer test filters for performance confirmation prior to finalizing the system design. We can offer redundant filter units as a safety measure for maximum filter usage while insuring discharge levels are being met. We can also incorporate on-line monitoring of pump operation, discharge quality, or flow metering as needed.

The pump operation, alarms, and monitoring output can even be tied to our High-LINK® system for remote monitoring by operators.



**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 clearwell. The effluent pump's automatic level controls start and stop the pump operation 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.

**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



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