

ULTRACEPT[®]

Oil / Water Separation Systems



When Meeting Discharge Requirements Is The Problem,
THE ULTRACEPT® SYSTEM IS THE SOLUTION.

THE ULTRACEPT PROCESS

The Jay R. Smith Mfg. Co.® Ultracept Oil/Water Separation System, Figure #8602-8645, is an above ground unit that removes free oil from wastewater.

The proprietary Ultracept Oil Water Separator continuously skims even the slightest sheens of oil from the surface of the water. The skimmed oil is carried to an off-line compartment where it is easily removed during periodic maintenance. Solids that are collected are discharged through a sludge draw-off valve in the rear of the unit.

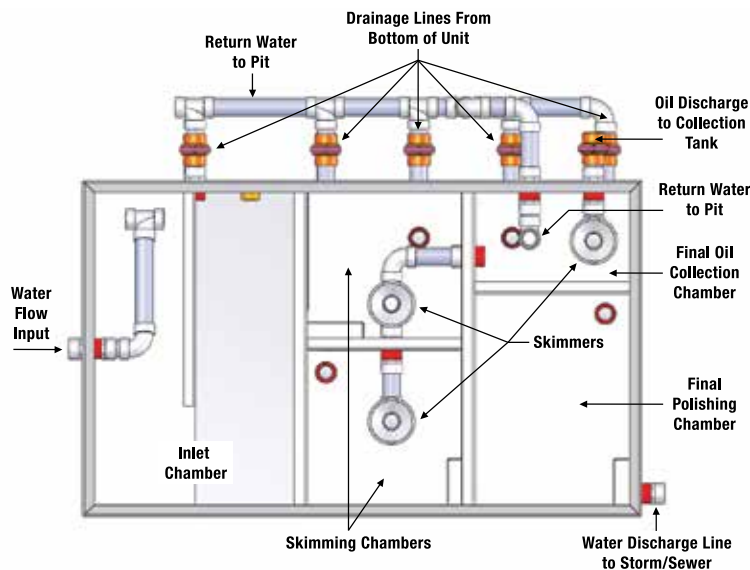
Ultracept series separators are used in applications such as service garages, industrial plants and most cleaning applications where oil and sediment must be efficiently removed to very low (PPM) discharge levels. Discharges under 10 PPM have been achieved.

NO COALESCING PACKS

The Ultracept System uses no coalescing packs. While coalescing packs can help separate oil in appropriate applications, in truck wash down areas and other applications with high concentrations of suspended solids mixed with oil and grease, the coalescing packs clog quickly, necessitating maintenance. If maintenance is ignored, clogged coalescing filter packs can cause discharge violations or environmental spills due to unit overflows.

HIGH SEPARATION EFFICIENCY

The Ultracept has a patented multi-stage separation process that enhances separation and allows the system to take advantage of the cohesive quality of water. Test results validate the effectiveness of the Ultracept design.



Top view of the Ultracept Oil/Water Separator System

Figure #8605-S



Stainless Steel

Figure #8605-M



Mild Steel With Coal Tar Epoxy Finish

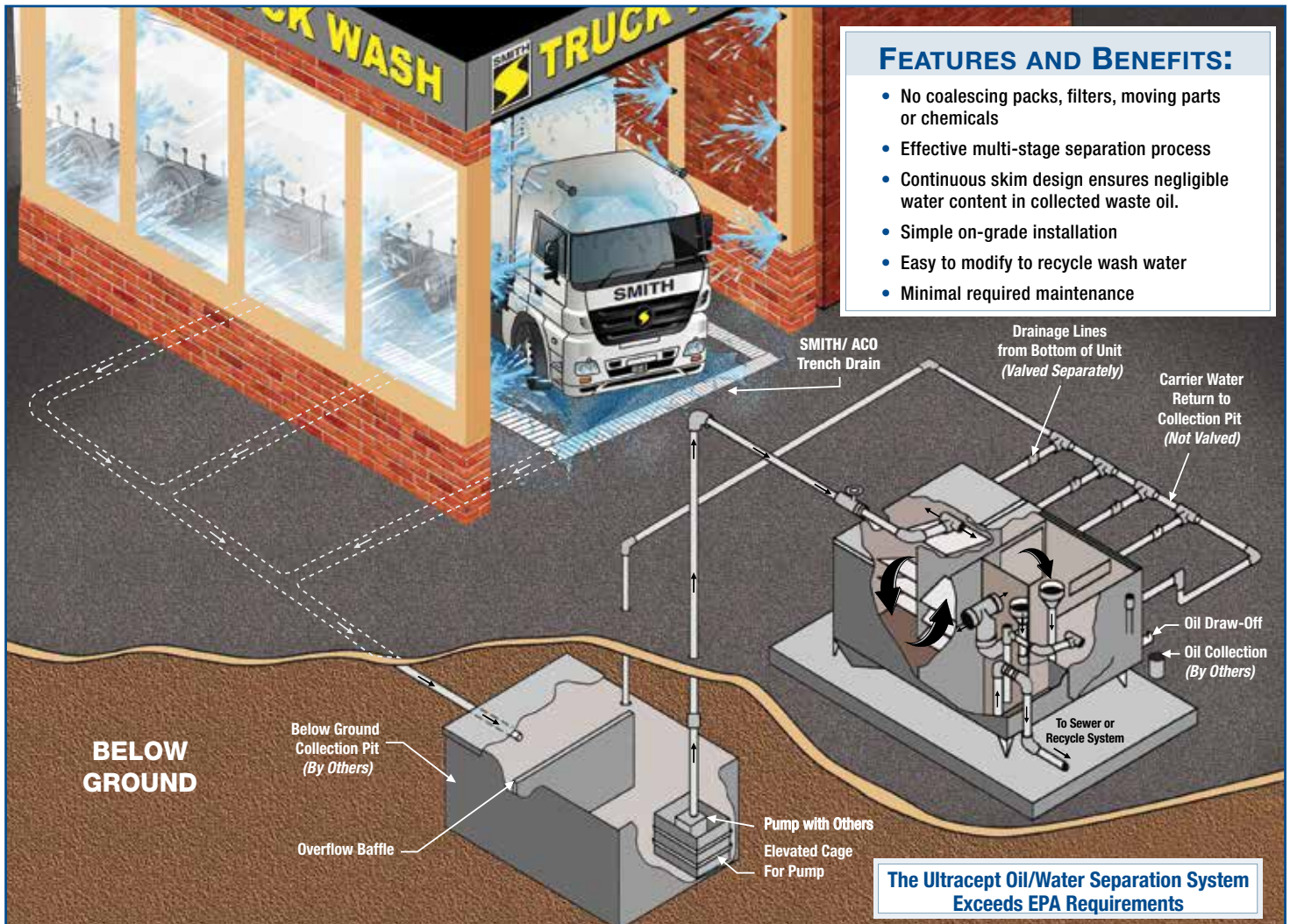
CONTINUOUS SKIMMING

Competing units use some variation of the “knife edge skimmer” to remove separated oil from water. This type of skimmer must be manually adjusted and is commonly misadjusted, resulting in water being skimmed with the recovered oil (<10% water in the recovered oil is typically required by the waste oil reclaimers).

In contrast, the Ultracept utilizes a “Continuous Skim” design that skims oil and water as it enters the skimming chamber. Water is used as a carrier in the skimming process. The skimmed oil and separated water are deposited in an off-line compartment with extended detention time allowed for separation. The water that carries the oil to its off-line compartment is automatically decanted back to the surge pit and the pure oil is collected in the oil compartment for draw-off or for automatic gravity transfer to an adjacent oil storage tank. Recovered oil has negligible water content and is therefore purer than the “oil/water slop” mixture collected by competitive units, resulting in less costly disposal.

How The Ultracept® System Can Work For You.

TRUCK / MAINTENANCE SHOP AND WASH AREA



FEATURES AND BENEFITS:

- No coalescing packs, filters, moving parts or chemicals
- Effective multi-stage separation process
- Continuous skim design ensures negligible water content in collected waste oil.
- Simple on-grade installation
- Easy to modify to recycle wash water
- Minimal required maintenance

ABOVE VS. BELOW GROUND INSTALLATIONS

Many competing companies have only below ground systems. Separating and storing oil below ground is a disadvantage with owner liability for leaky underground tanks and contaminated soil. Above ground installations are much easier to service and maintain. Underground units are typically gravity fed which saves a pump, but those same units require a pump to remove the oil and drain the unit. The Ultracept is piped to allow for gravity draining of the entire unit for cleaning. The separated oils flow from the unit via gravity to a storage vessel.

EASY POLISHING/ RECYCLING OPTIONS

The Ultracept allows for easy adaptation to add polishing equipment such as activated carbon filters, which can be adapted for recycling of wash water.

SERVICE AND MAINTENANCE

Since Ultracept systems have no moving parts, no coalescing packs to clean and no filters to change, suggested maintenance is less than 10 minutes a week. When occasional service is required on an Ultracept (e.g., to remove a heavy sediment layer on bottom on unit), a drain valve connected to the multiple drain ports on the rear of the unit is simply opened to drain the unit back to the surge pit. The sediment can then be easily removed (with a wet vacuum, or equivalent).



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- Don Morris, President and CEO

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