





## From: THE SMITH ENGINEERING GROUP

PRODUCT ALERT: 8600 Series Ultracept®

The Ultracept<sup>®</sup> oil/water separator provides high separation efficiency without high maintenance coalescing packs. The design is simple but reliable. It is a multi-stage, continuous skimming pattern. It uses water as a carrier which enables sheens of oil to be skimmed along with mechanically emulsified oil and water. The oils and the carrier skimming water are conveyed to a quiescent, off-line compartment where the skimming water is automatically decanted back to the sump and the oil and mechanical emulsions are given extended detention time for effective separation.

These units are available in stainless steel or mild steel and are available in 2, 5, 10, 25 & 45 GPM sizes.

Additionally information is available on the website or you may contact Sales Engineering for additional assistance.

On the following page are photos of two 45 GPM units recently installed on a project site near Atlanta, GA. The units are stainless steel creating an aesthetically nice appearance along with providing durability and longevity. Please refer to the accompanying submittal drawings (8600-Series 1 & 8600 Series 2).



#### NICKEL BRONZE:

Recently the question was asked by an architect concerning which material should be specified on floor drains in a finished area. He had wanted to specify nickel bronze but was told it would not embrace foot traffic because it was a coating. This could not be further from the facts. Nickel bronze is ideal for areas subjected to the abrasive polishing action of shoe (foot) and other traffic. Nickel bronze is not a coating but a solid cast metal of added strength which is regularly furnished with a permanent silvery satin finish blending in with most décor. The buffing action of foot traffic actually helps it maintain and increase its lustre.

Metals are classified on a noble scale of least noble (anodic) to the most protected (cathodic). Nickel bronze is towards the protected end (most noble) side of the scale.







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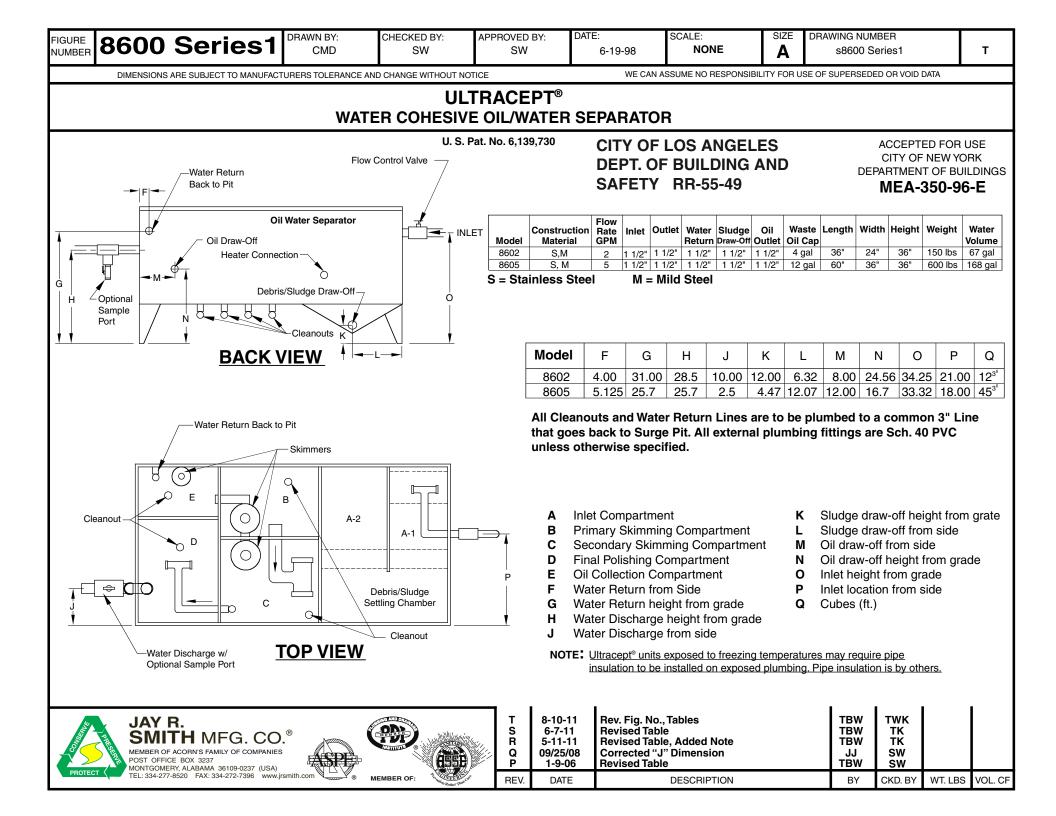


FIGURE NUMBER	8600 Series1	DRAWN BY: CMD	CHECKED BY: SW	APPROVED BY: SW	DATE: 6-19-98	SCALE: NONE	SIZE <b>A</b>	DRAWING NUMBER s8600 Series1 BS	D
	DIMENSIONS ARE SUBJECT TO MANUFACT	WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA							

#### ULTRACEPT<sup>®</sup> WATER COHESIVE OIL/WATER SEPARATOR

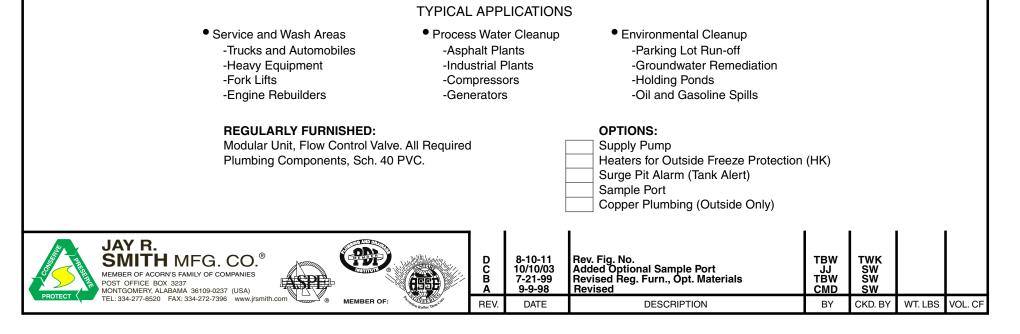
### THE OIL REMOVAL PROCESS

From the surge pit, either above or below grade, contaminated water is pumped to the Ultracept<sup>®</sup> oil/water separator. The separator, having been filled with clean water prior to start-up, then uses the clean water to promote and enhance waste separation. The effluent from the pit passes through a screen in compartment A to remove any floating debris. The oil is skimmed as the effluent passes through compartment B and C. Skimmed oil and the water that transports it empties into compartment E. The water that transported the oil into compartment E is then automatically drained back to the surge pit. The oil collected in compartment E is periodically removed for disposal during factory recommended scheduled maintenance, <u>or</u> can be continually decanted into a separate container.

The flow of water through the unit allows the cleanest water to be drawn from the bottom of each compartment. From the bottom of compartment B, water is siphoned through the T-pipe to the top of compartment C. The transfer pipe in compartment C transfers the clean effluent to compartment D where it is gravity discharged to an approved sewer system.

The Ultracept<sup>®</sup> System features simplicity. No moving parts, no filters, no coalescing plates or chemicals are used for oil removal. For proper performance, <u>a minimum size surge pit of 4x4x4</u> is required and the ratio of oil to water entering the unit shall not exceed 15% oil to 85% water. No additive can be used that will leave oil emulsified in the waste water.

Ultracept<sup>®</sup> equipment is modular in design, so that modifications or additions may be made to always keep operations in compliance with EPA regulations.



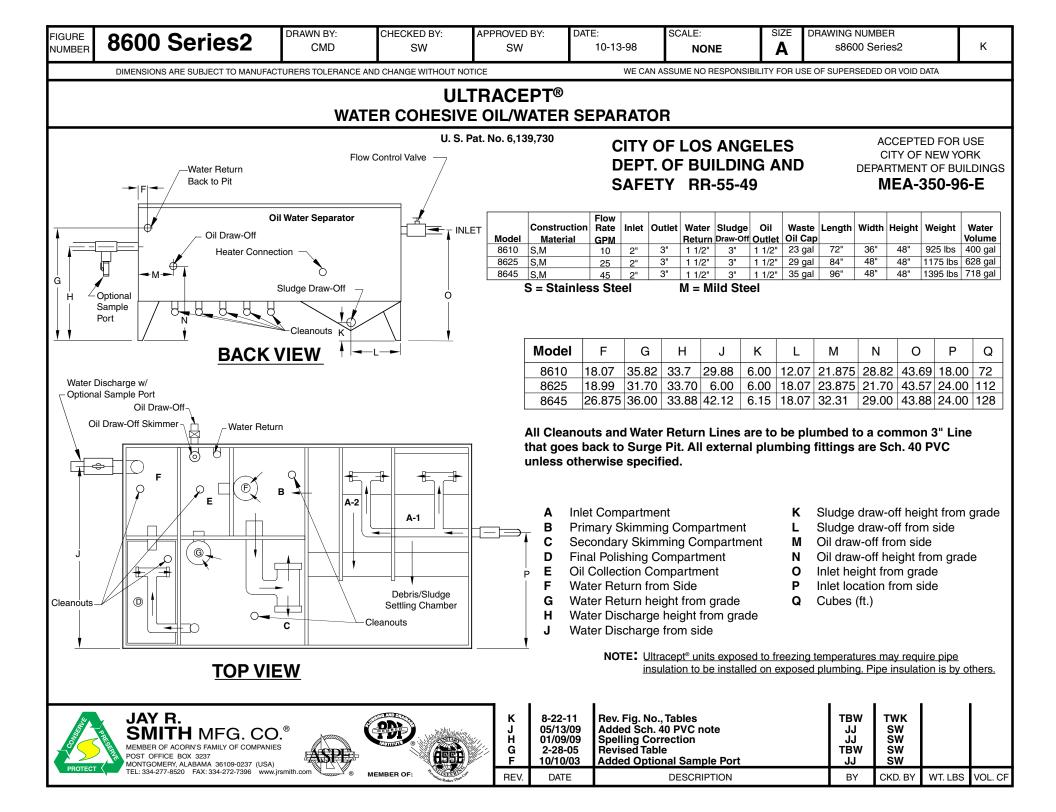


FIGURE NUMBER			CHECKED BY: APPROVED BY: SW SW		DATE: 10-13-98	SCALE: NONE	SIZE <b>A</b>	DRAWING NUMBER s8600 Series2 BS	D	
DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA										

# WATER COHESIVE OIL/WATER SEPARATOR

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TYPICA	L APP	LICATIONS	6				
-Trucks and Automobiles -Asp		Plants ors	<ul> <li>Environmental Cleanup         <ul> <li>Parking Lot Run-off</li> <li>Groundwater Remediation</li> <li>Holding Ponds</li> <li>Oil and Gasoline Spills</li> </ul> </li> </ul>				
<b>REGULARLY FURNISHED:</b> Modular Unit, Flow Control Valve. All Required Plumbing Components, Sch. 40 PVC.	d	OPTIONS: Supply Pump Heaters for Outside Freeze Protection (H Surge Pit Alarm (Tank Alert) Sample Port Copper Plumbing (Outside Only)					
JAY R. SMITH MFG. CO.® NEMBER OF ACORN'S FAMILY OF COMPANIES POST OFFICE BOX 3237 MONTGOMERY, ALABAMA 36109-0237 (USA)	D C B A	8-22-11 05/14/09 10/10/03 7-21-99	Rev. Fig. No. Added Sch. 40 PVC & Optional Copper Added Optional Sample Port Revised Reg. Furn., Opt. Materials	TBW JJ JJ TBW	TWK SW SW SW		
PROTECT TEL: 334-277-8520 FAX: 334-272-7396 www.jrsmith.com	REV.	DATE	DESCRIPTION	BY	CKD. BY	WT. LBS	VOL. CF