



**SPECIFICATIONS FOR SANBORN
OILY WASTEWATER WASTE MINIMIZATION UNIT
MODEL UFV750T**



Oily Wastewater Waste Minimization System Model UFV750T

Oily Wastewater Waste Minimization System designed for unattended operation in the separation process containing suspended, colloidal, and emulsified matter. This single pass system is pre-piped, pre-wired and designed to meet the NEC Code. Pertinent features are:

- The system will remove solids and mechanically separate any emulsified and colloidal material to provide a dischargeable water effluent.
- The system includes ultrafiltration membrane technology as an economical, non-chemical method of concentrating an emulsion and reducing waste volume.
- The membrane typically produces a high quality permeate containing no suspended solids and less than 100 mg/l (ppm) oil and grease. The tubular configuration eliminates the need for pre-filtration as rejected solids pass easily through the wide channel membrane elements. The cross-flow filtration pattern discourages membrane fouling. However, periodic cleaning is required using a mild alkaline wash solution.
- The nominal capacity of the system is 750 gallons per day (24 hours). The actual process rate may be more or less, depending on the oily wastewater's condition. This unit can be expanded to double its processing capability (1,500 gpd) with the additional purchase of the expansion rack and 10' membrane modules.
- The system controls are relay logic in a single control enclosure designed for unattended operation. For system protection, the recirculation pump automatically shuts off when a low pressure or high temperature condition arises.
- The system is designed for ease of installation. The interconnecting piping, process and cleaning pumps, process and cleaning tanks, mounted oil/water separator, membranes elements and controls are mounted on a single compact skid. Level controls in the process tank control a solenoid for the air operated transfer pump. Dimensions are 100" L x 48" W x 96"H.
- Customer supplied utilities include electrical power (460 VAC, 3 Phase, 60 Hz), compressed air for the transfer pump and city water for the cleaning tank.



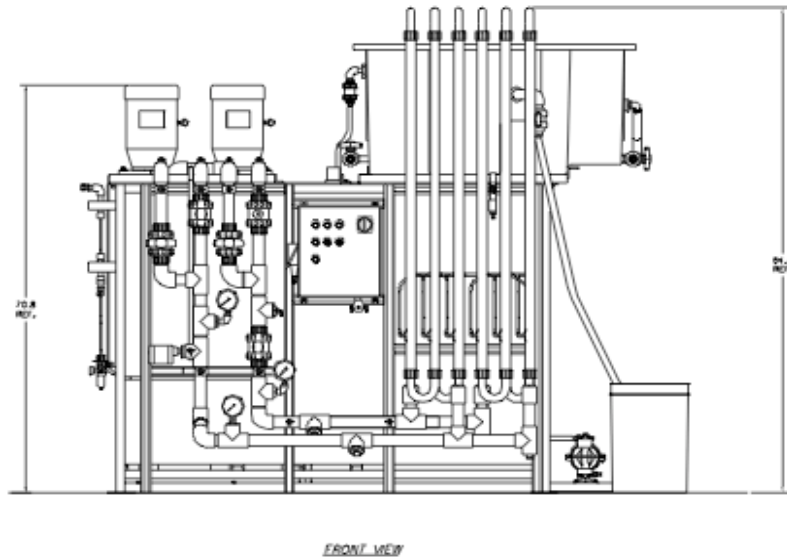
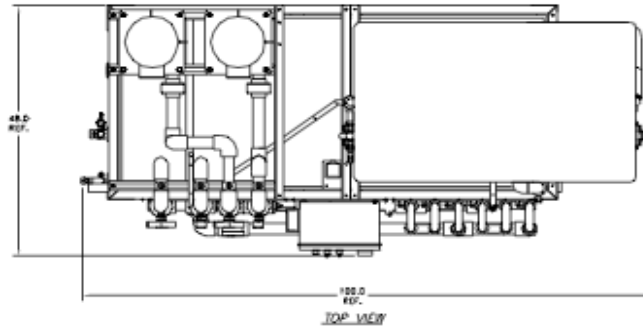
The principal system components are:

<u>Item</u>	<u>Qty.</u>	<u>Description</u>
1.	1 ea	System skid for Vertical mounting of 5” membrane elements, cleaning and process tanks, process pump, oil/water separator and electrical controls panel.
2.	1 ea.	Process and Cleaning Tank - Rectangular, molded high-density polyethylene tank divided to form a 310 gallon process tank and a 80 gallon clean tank
3.	1 ea.	Process Pump, carbon steel vertical centrifugal, open impeller with TEFC motor. Pump sized for 100 gpm @ 70 psi. with Tungsten/Carbide bushings. This pump eliminates the problems associated with pump seals
4.	1 ea.	Cleaning Pump, carbon steel vertical centrifugal, open impeller with TEFC motor. Pump sized for 100 gpm @ 70 psi. with Tungsten/Carbide bushings. This pump eliminates the problems associated with pump seals.
5.	1 ea.	High temperature switch set at 125°F for automatic system shutdown for membrane protection.
6.	1 ea.	Low pressure switch set at 45 psi for automatic system shutdown during low pressure (flow) condition.
7.	12 ea.	Tubular membrane 5 foot length are 1/2" wide channel design elements providing 3.5



ft.² per element of active membrane area.
Temperature limit 125°F, pH range 2-12.

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| 8. | 1 ea | Level Controls – mounted in process tank that control the transfer pump for topping off. |
| 9. | 1 ea. | Transfer pump, air operated, controlled by level probes mounted in the process tank. |
| 10. | 1 ea. | Electric controls, NEMA 12 enclosure containing main disconnect, motor starter, overload and short-circuit protection, transformer, pilot lights and relays. Control circuit - 115 VAC. Controls are designed and built to meet the NEC code. |
| 11. | 1 ea. | 5 gallon SANDON membrane detergent. |
| 12. | 2 ea. | Instruction Manuals. |



		23 WALPOLE PARK SOUTH, WALPOLE, MA 02081-2558 PHONE: (508) 860-9150 FAX: (508) 860-9151 EMAIL: www.sanborntechnologies.com		DRAWING TITLE UFV750TV W/ SOS VERTICAL MEMBRANES	
SIZE A	DRAWN BY: JAP	DATE: 11/20/2006	SCALE NTS	DRAWING NO. 11202006A	SHEET 1 of 1

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