

UFV250-1500TV Membrane System

The UFV250-1500TV Membrane Systems are part of Sanborn Technologies line of compact ultrafiltration systems for waste minimization or process water reuse. These systems are ideal for recycling and/or disposal of oily wastewater from aqueous parts washers, floor mopping, waste coolants or tumbling and burnishing operations.

The UFV250-1500TV Systems employ rugged 0.5" tubular membrane ultrafiltration membrane technology to separate water from suspended solids and emulsified oils. Membrane life is between 1 to 2 years so operational costs are low. Where free-oil is present an integrated Sanborn SOS oil separator is mounted right on the processing skid. Like all Sanborn UF systems, wastewater can be reduced by as much as 98% without the use of chemical additives such as flocculent. The effluent is typically discharged directly to sewer or reused within the process.

Sanborn's compact design include a process tank, membrane cleaning tank, process pumps without pump seals, level controls, and a transfer pump to allow the unit to be installed with minimal effort.



UFV750TV Shown with Optional Free-Oil Separator

Features

- High-Tech Polymeric Membrane is highly insensitive to chemical and concentration changes in the waste feed stream, ensures consistent effluent quality
- Half Inch Tubular Membrane allows processing of high solids waste
- Unattended system operation in batch or continuous mode
- Skid mounted units install easily in the plant
- Simple operation with low operating cost



Applications

- Oily Wastewater
- Used Metalworking Coolants
- Mop Bucket Water
- Compressor Condensate
- Waterbased Cleaners
- Vibratory Tumbling Wastewater

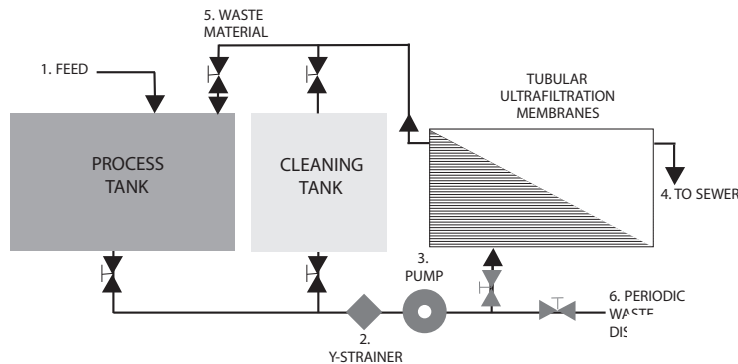


Oily Wastewater prior to Ultrafiltration (left)
Filtered Oily Wastewater after Ultrafiltration (right)

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Operation

1. Wastewater enters the process tank.
2. Wastewater passes through a strainer & protects the pump.
3. Liquid is continuously pressure driven across the semi-permeable UF membrane where emulsion dewatering occurs.
4. Clean water is continuously discharged from the system.
5. Waste media rejected by membranes is recycled back to the process tank.
6. Concentrated waste is periodically removed for disposal.



Cutaway of tubing shows wide-channel tubular membranes

Specifications

	UFV250TV	UFV500TV	UFV750TV	UFV1500TV
Volume Processed (GPD)	250	500	750	1500
Process Tanks (Gals)	180	180	330	330
Cleaning Tank (Gals)	50	50	70	70
Number of Membranes	4	4	12	12
Length of Membranes	5	10	5	10
Process & Cleaning Pumps (GPM/Pump)	50	50	100	100
Pump HP	5	5	10	10
Amp Draw @ 460 Volts	7.5	7.5	15	15
Dimensions	74" x 39" x 81"	74" x 39" x 142"	86" x 48" x 81"	86" x 48" x 145"
Dimensions With SOS	89" x 39" x 81"	89" x 39" x 142"	100" x 48" x 81"	100" x 48" x 145"
Weight with SOS	1700 Lbs.	1800 Lbs.	2100 Lbs.	2200 Lbs.
Weight with SOS	2000 Lbs.	2100 Lbs.	2400 Lbs.	2500 Lbs.
pH Range	2-12	2-12	2-12	2-12
Temperature	50°-125°F	50°-125°F	50°-125°F	50°-125°F

