

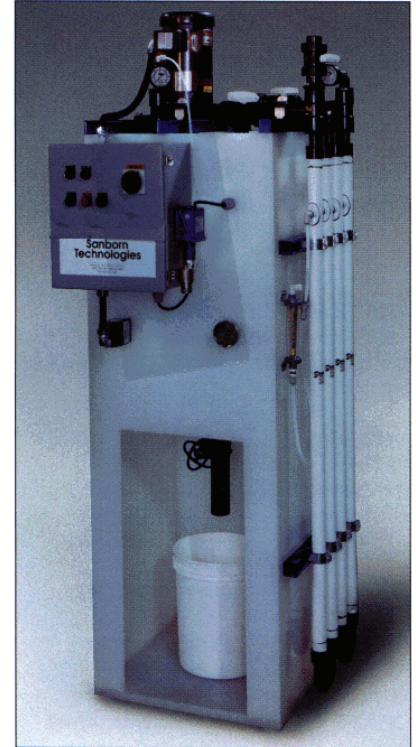
## Model UFV-200T Membrane System

The Model UFV-200T System employs ultrafiltration membrane technology to separate the water and dissolved chemicals from suspended solids and emulsified oils. The process reduces wastes by as much as 98% without the use of chemical additives. The UFV-200T is specifically designed with a seal-less vertical centrifugal pump and 1/2 inch diameter tubular membranes to allow the unit to handle the heavy solids loading associated with the applications. The separations process is mechanical and operates without messy and expensive prefiltration and in most cases, can produce sewerable effluent - thus dramatically reducing waste disposal costs.

The Model UFV-200T is shipped completely assembled. It requires only an electrical connection and compressed air supply to begin operation. The small footprint (only 29" long and 34" wide) makes this an ideal unit for installation where manufacturing floor space is limited. Systems options include larger processing capabilities and fluid transfer stations.

### Features

- A high-tech Polymeric Membrane is insensitive to chemical and concentration changes in the waste feed stream
- Half-Inch Tubular Membranes allow for processing of high solids waste
- Self Contained unit installs easily in the plant



### Applications

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



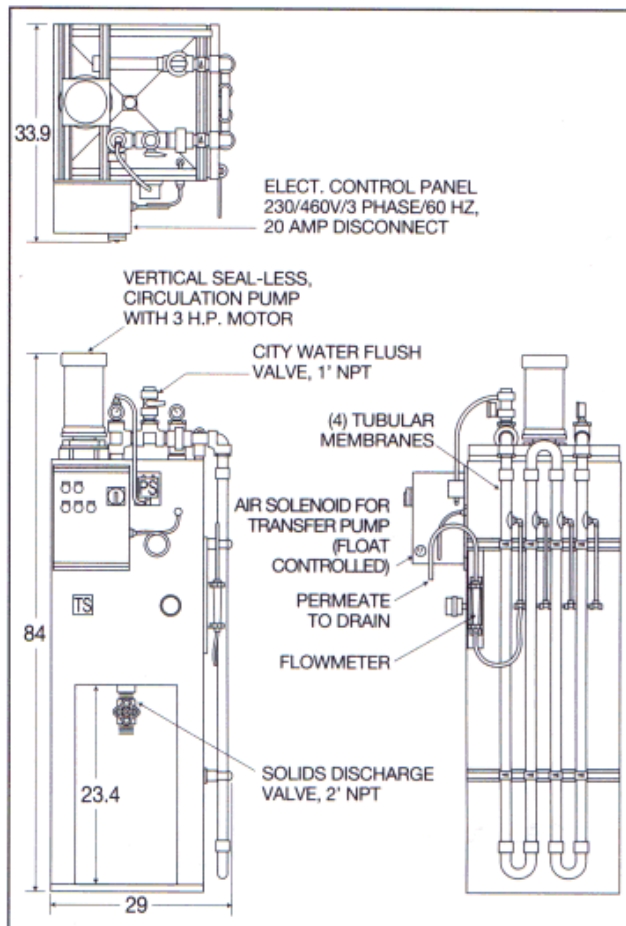
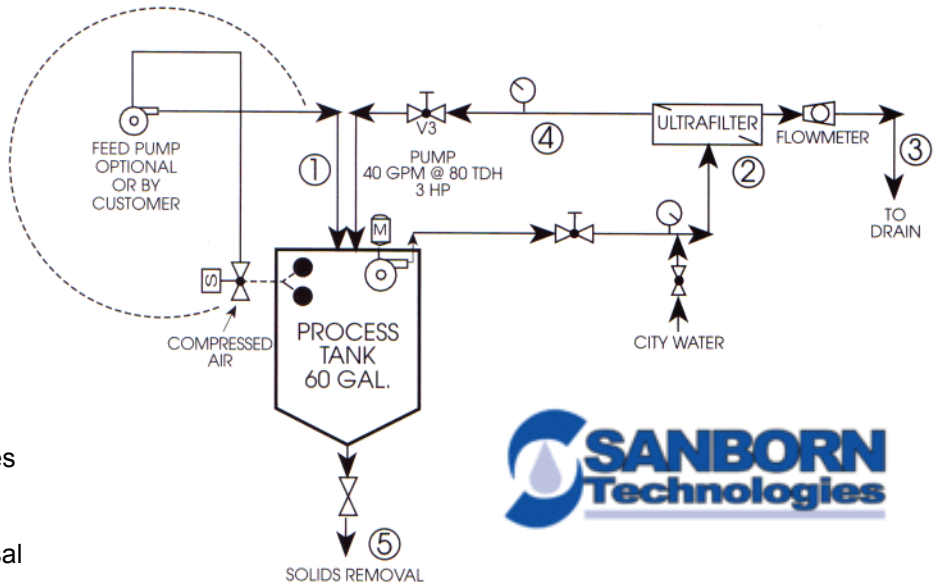
*Oily Wastewater prior to Ultrafiltration (left)  
Filtered Oily Wastewater after Ultrafiltration (right)*

Specifications	
Dimensions	29" x 34" x 84"
Weight	300 Lbs.
Process Weight	200 GPD (24 Hour Basis)
Tank	Polypropylene Construction - 60 Gallon Rectangular
Motor	3 HP TEFC
Control Panel	NEMA 12 Enclosure
pH Range	2-12
Temperature	130°F Max
Electrical	230 or 460V/3/60
AMP Draw	10 amp @ 230V
Options	Lift Station with Transfer Pump and controls, Expanded processing capacity.

## Model UFV-200T Membrane System

### Operation

1. Wastewater enters the process tank
2. The Liquid is continuously pressure driven across the semi-permeable UF Membranes where emulsion dewatering occurs
3. Clean water is continuously discharged from the system
4. Waste material rejected by the Membranes is recycled back to the process tank
5. Solids are periodically removed for disposal



Cutaway of tubing shows wide-channel tubular membranes

### Benefits

#### Direct Cost Savings

- Reduced waste volume
- Simple Operation
- Extremely low operation costs

#### Environmental Benefits

- Positive membrane barrier ensures consistent effluent quality
- Lower waste volumes reduce environmental liability
- Low pressure, non-chemical system is safe to operate

#### Time Savings

- Unattended operation and limited maintenance
- Less storing, monitoring and hauling away of wastewater