



UNIVERSAL PHOTONICS INCORPORATED

Saving You & the Environment

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Designed to handle waste volumes of up to 500 gallons per day, the Uni-500T System efficiently reduces wastes by up to 98 % without the use of chemical additives. Liquid waste is filtered to remove all solids and in most cases, the result is an effluent suitable for compliant discharge or recycling.

The Uni-500T's simple, continuous operation requires minimum energy and operator involvement. The System employs wide-channel (half-inch) tubular membrane technology to separate water from suspended solids. Universal's innovative design allows the Uni-500T to handle high solids without messy and expensive prefiltration. The result, an effluent that can be readily discharged in the municipal sewer system or recycled, dramatically reduces waste disposal costs.

The Uni-500T is shipped pre-piped and pre-wired for easy installation.

ULTRA-FILTRATION SYSTEM -UNI-500T

FEATURES

- **High-tech polymeric membrane is highly insensitive to chemical and concentration changes in the waste feed stream.**
- **Half-inch tubular membrane allows processing of high-solids waste.**
- **System operates in batch or continuous mode.**
- **Skid-mounted unit installs easily in plant.**

BENEFITS

DIRECT COST SAVINGS

- **Reduced waste volume saves on disposal costs.**
- **Simple operation saves labor costs.**
- **Extremely low operating 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.**

VALUABLE TIME SAVINGS

- **Unattended operation and limited maintenance save man-hours.**
- **Less storing, monitoring, and hauling away of wastewater.**



Visit us at universalphotonics.com to learn more about our unique systems and products.

FD500T/0108



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ULTRA-FILTRATION SYSTEM -UNI-500T

OPERATION SUMMARY

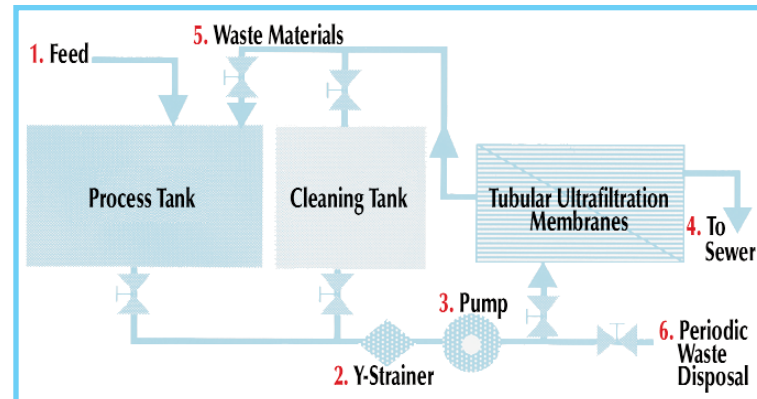
1. Wastewater enters Process Tank.
2. Wastewater passes through Strainer, which protects pump.
3. Liquid is continuously pressure-driven across the semipermeable UF membrane where emulsion dewatering occurs.
4. Clean water is continuously discharged from the system.
5. Waste material rejected by the membranes is recycled back to the process tank.
6. Concentrated waste is periodically removed for disposal.

SPECIFICATIONS * Dimensions include optional process tank

VOLUME PROCESSED (GPD)	500
PROCESS TANK (GALLONS) OPTIONAL	500
CLEANING TANK (GALLONS)	50
NUMBER OF MODULES	4
PUMP (GPM)	50
MOTOR (HP)	5
AMP DRAW @460 V	7.5
LENGTH*	140 IN.
WIDTH*	54 IN.
HEIGHT*	144 IN.
WEIGHT*	1000 LBS.

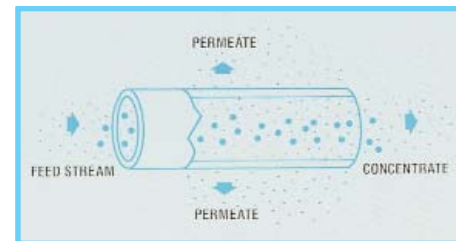
OPERATING CONDITIONS

pH	2 - 12
TEMPERATURE	120 DEGREES F (MAX)
WATER	CITY WATER (CLEANING TANK SUPPLY)



Ultrafiltration membrane systems offer the widest range of flexibility in applications. These membranes separate particles down to 0.005 micron and, in a wide channel configuration, can handle heavy solids. They are chemically resistant.

Wide channel configuration has a dimension inside the membrane module of at least half-inch. This allows the modules to be used in high solid applications without the need for significant prefiltration.



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