



***DEPEND ON LIFESTREAM FOR ALL YOUR PROCESS WATER,  
POTABLE WATER PURIFICATION AND RECYCLING NEEDS***

Lifestream Watersystems Inc. is a full service engineering and manufacturing company dedicated to meeting the needs of the water and process water treatment customers worldwide.

Based in Southern California, Lifestream has a 19 year history of designing, fabricating, producing and servicing innovative and reliable water treatment, purification and recycling systems to meet the needs of a wide range of industries. The company has grown steadily throughout its life and looks forward to a bright future.

***CALL LIFESTREAM WHEN YOU NEED:***

- ***WATER TREATMENT SYSTEMS WHICH ARE FUNCTIONAL AND RELIABLE***
- ***WATER PROCESSING EQUIPMENT TO SOLVE A UNIQUE PROBLEM***
- ***ENGINEERED PRODUCTS WHICH ARE RUGGED AND EASY TO INSTALL/ OPERATE***

***ULTRAFILTRATION FOR FINE SOLIDS AND OIL REMOVAL***

**Applications Of Ultrafiltration**

- Lifestream has designed and produced Ultrafiltration systems up to 3,000 m<sup>3</sup>/day (780,000 USG/day). These are unitized systems which are easily put into operation on site in the most difficult of locations. These units can be containerized in customized 20 and 40 foot ISO containers for secure transit and easy startup.



P.O. Box 634 Huntington Beach, CA 92647 USA  
Phone: 714-375-6583 - Fax: 714-375-6586 - email: [lifestream22@aol.com](mailto:lifestream22@aol.com)  
Web site – [www.lifestreamwater.com](http://www.lifestreamwater.com)

## ***HOLLOW FIBER SYSTEM***

### **Potable Water and Juices**

- Purified bacteria and virus free water for applications such as drinking water, wash water and process water.
- Ultrafiltration Membranes allow water, monovalent ions, and divalent ions to pass through, but stop suspended solids down to particle sizes as small as 0.01 microns.
- Ultrafiltration produces water free of suspended solids and turbidity.
- Juice clarification by UF processing produces clear juice while allowing water and sugar to flow through the membranes.

### **Wastewater Recycling**

- Wastewater recycling and reuse can be accomplished with properly designed UF systems to allow dramatic reduction in waste water disposal costs.
- Oily Wastewater concentration allows the oily water which needs to be disposed of to be quite concentrated to reduce disposal costs.



***SUBMERGED MEMBRANE SYSTEM***

### **Wastewater Pretreatment**

- Ultrafiltration is often suited for pretreatment of water before entering other Wastewater recycling membrane processes such as Reverse Osmosis. Oily Wastewater treatment allows the oily water which needs to be disposed of to be very concentrated to reduce disposal costs and protects the expensive R/O membranes from permanent damage by oil contamination.

Maximum TDS	Varies by application
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**Factory Procedures:**

Assembly	Fully assembled at the factory
Wiring	Fully wired at the factory
Testing	Hydrostatic pressure test, Electrical integrity test, Factory functional test
Membrane Elements	Hollow Fiber Membrane modules are installed on site after shipment.
Membrane Shipping Condition	Dry, shipped uninstalled
Shipping Preparation	Shrink protection (some components may be removed for protection prior to shipment)

Electrical and Controls	Underwriters' Laboratory (UL), National Electrical Code (NEC), Canadian Standards Association (CSA)
Panel NEMA Rating	NEMA 4

**Flow Rate Specifications:**

Model Number	UF350K	UF264K	UF144K	UF108K	UF86K	NF43K
Product (GPM)	243	183	100	75	60	30
Feed (GPM)	255	192	105	79	62	32
Concentrate (GPM)	12	9	5	4	2	2

**Customer Connection Specifications\*:**

Model Number	UF350K	UF264K	UF144K	UF108K	UF86K	NF43K
Feed	6"	3"	3"	2 1/2"	2"	1 1/2"
Product	4"	3"	2"	2 1/2"	2"	1 1/2"
Concentrate	4"	1.5"	2"	1 1/2"	1 1/2"	1 1/2"

\*\*All connections are 150# ANSI flanges

**Physical Dimension Specifications:**

Model Number	UF350K	UF264K	UF144K	UF108K	NF 86K	NF 43K
Length (in)	192	144	120	110	98	96
Width (in)	84	84	72	48	48	48
Height (in)	98	98	98	98	98	98
Est. Shipping Weight (lbs)	6100	4100	2900	2500	2400	1900
Number of UF Modules	16	14	8	6	4	2