

LIFESTREAM MEMBRANE CARE SKID

The **LIFESTREAM** Membrane Care Skid enables operators of Reverse Osmosis water purification equipment to easily and effectively carry out cleaning and preservation at proper flow rates and temperatures.

Careful cleaning and flushing of the membrane is an important way to extend the life of expensive and important component of R/O equipment.



COMPONENTS OF THE SYSTEM

The Membrane Care Skid system consists of the following components, but it should be remembered that the size and configuration of the elements of the system vary depending on the size of the system and the conditions under which it will be operated:

CHEMICAL HOLDING TANK:

The tank is made of high quality polypropylene which is very resistant to all of the cleaning chemicals and preservatives which are used in the cleaning process. The tank is provided with a cover to contain the chemicals (some of which are very corrosive) and to reduce evaporation of the liquid from the system.

HIGH SPEED CENTRIFUGAL PUMP:

This pump is made of Glass Fiber reinforced Noryl polymer which is structurally very tough and high resistant to all of the chemicals used in the process. The pump is powered by a totally enclosed fan cooled motor which is epoxy coated and highly resistant to splashing and exposure to damp and corrosive conditions. Both the pump and the motor are sized to provide a flow rate and pressure suited to the R/O system for which the unit is designed. The motor is chosen to be operated off the electrical current which is specified at the time of order.

ON/OFF SWITCH – CIRCUIT INTERRUPTER:

The unit is connected by a power cord to the main power supply of the proper voltage. The on/off switch is a circuit interrupter and is not a circuit breaker or a motor protector.

CARTRIDGE FILTER UNIT:

A large cartridge filter housing is provided to assure that no debris or particulate contaminants will find their way into the membranes, and cause any problems.

FLOW METER:

The flow meter is a vital instrument in the cleaning of membranes and must be monitored carefully during all stages of the cleaning process.

PRESSURE GAUGE:

A pressure gauge is included to monitor the pressure at which the cleaning takes place which should not exceed 50 psi, to determine if there is clogging in the cartridge filter, or the membrane, or if the resistance is lower than it should be to flow which could indicate damaged membranes.

TEMPERATURE GAUGE:

R/O membranes are very sensitive to heat. A gauge is provided to be sure temperatures do not exceed 120°F during cleaning.

HEATER:

The optional heater is used to dramatically increase the rate of cleaning by the thermostat accurately maintaining the temperature of the cleaning solutions at the proper level, and to prevent the temperature from exceeding the recommended maximum.

GLOBE VALVE:

This valve is used to control the flow of the liquid and the back pressure of the solutions as they leave the membrane care skid and go to the R/O unit.

BALL VALVE:

This valve is used to close off the system before and after cleaning to prevent the solutions from draining while the membrane care skid is being connected or disconnected from the R/O unit.

QUICK DISCONNECT FITTINGS:

These fittings are provided to make it very easy to connect and disconnect the skid from the machine before and after cleaning.

FLUID HOSES:

There are two hoses provided with the unit, a feed hose and a return hose. All hoses have quick disconnect fittings which are mated to the fitting on the skid and the adaptor kit for the R/O machine.

ADAPTOR/INSTALLATION KIT:

This kit is provided to allow easy preparation of the existing R/O unit for use with a membrane care skid.

FITTINGS:

All fittings used on the Membrane Care Skid are of high quality and are chosen to be impervious to the chemical solutions used in cleaning and preserving TFC R/O membranes.

SIZING AND SPECIFICATIONS

The membrane care skid is designed to be compatible with the size of the machine it is servicing. Contact LIFESTREAM for specification details for your particular application.

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