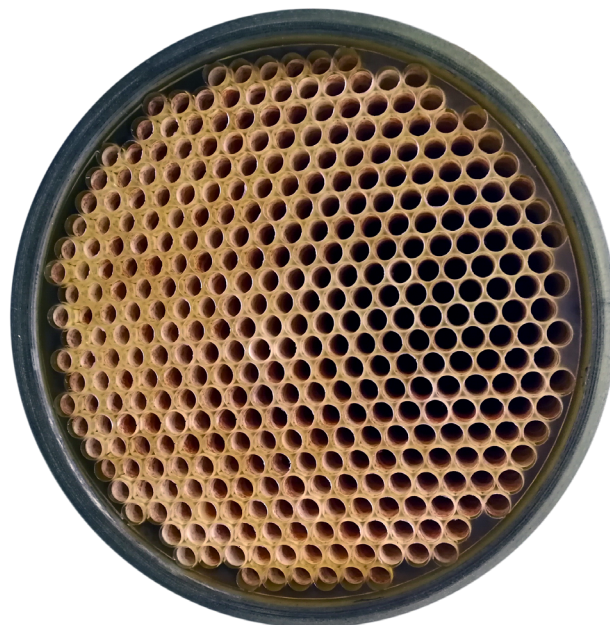


LPF450 Data sheet

Product Overview

The tubular UF system incorporates a robust, low-cost module in GRP material. The LPF450 module design permits simple, rapid, and inexpensive membrane replacement. LPF450 modules are offered in two lengths (3.00m and 4.00m), each housing used UF membranes with 450k Da cut off and 8 mm diameter, cast in epoxy resin at each end. The shorter length is designed for retrofitting to non-PCI systems.

To ensure system integrity, on-line permeate sampling from individual modules is available. The open channel design processes liquids with high levels of suspended solids without plugging and facilitates highly effective cleaning in place. The compact design gives the module a high strength allowing operating pressures of 7 bar.



Dimensions	Connections	Materials of Construction
Tube Diameter: 8 mm	Permeate: 2.5" Victaulic	Shroud: GRP
Tube Length: 3000 mm	Feed: 8" Victaulic	Membrane Core: Polyester/PVDF membranes, epoxy resin core headers
Membrane Area: 27 m ²	Shipping Weight: 76 kg	Gaskets: Nitrile

Membranes Operation Limits
Max Operating Pressure: 7 bar
Max Operating Temperature: 49°C
pH Range: 1.5 - 10.5
Max Chlorine Exposure: 250 ppm at pH >9

CIP Solution

1. Sodium hydroxide to pH 10.5 max. at 55°C at 1 Bar or a max of 50°C at 7 Bar. Recirculated for 20 minutes.
2. Sodium hydroxide to pH 10.5 max. plus sufficient sodium hypochlorite to give 200 ppm free chlorine (based on plant total volume), maximum 250 ppm at 55°C at 1 Bar or a max of 50°C at 7 Bar. Recirculated for 30 minutes during which further sodium hypochlorite may be added to maintain the level of free chlorine.

It is essential that the pH of 10.5 is achieved before addition of sodium hypochlorite in order to prevent attack of the membrane by the hypochlorite.

