

## Model One Multifactor

### Membrane Filtration Skid

The Model One multifactor membrane filtration skid is a flexible unit used to perform pilot studies and small-scale recovery operations using membrane filtration technologies. (MF/UF/<NF)

The standard configuration of the Model One allows for the installation of both Hollow Fiber (HF) and Spiral-wound (SW) polymeric membranes.

Data logging through OPTO22 EPIC hardware. The unit can be connected to any network through an integrated LAN port allowing for remote monitoring, control and data collection.

The skid is highly mobile, quick to install and easy to operate. An operation manual and OPTO22 PAC software is provided.

### Features

- Four, sanitary, membrane housings  
Single Element, 3.8" Diameter
  - Operate with one to four, independent isolation.
- Removable housings and adjustable header allow for installation of Hollow Fiber (HF) filters
  - cartridges up to 6" diameter and 48" height.
- Pressure readings, sanitary transducers
  - Filter Inlet, Outlet, and Permeate
- Temperature, sanitary probe
  - Inlet Manifold
- Flow, magnetic-inductive flow meters
  - Recirculation, Concentrate and Permeate
- Heat Exchanger
- 316 stainless steel construction, sanitary design
  - All wetted components are 316SS, PTFE or EPDM
- Dual pump system, 1x High Flow, 1x High Pressure
  - Grundfos vertical multistage centrifugal pumps



### Operating Conditions

Pressure:	Up to 170 psi, Working 160 psi
Flow:	Up to 420 lpm, Working 400 lpm
Temperature:	Up to 80°C (Membrane Dependent)

### Membrane Conditions

Hollow Fiber (HF) - Various

Spiral Wound (SW) Membrane Area - 2 to 28 m<sup>2</sup>

### Specifications & Utility

Electrical:	3x 230/460V, 60Hz
Service:	230/460V, 20amp
Motors:	3HP, 7.34/3.67 A
Drives:	ABB VFD, 3HP
Data/Remote:	OPTO22 Hardware/Software

