

# MICRO-KLEANSEP™ SUITCASE UNIT

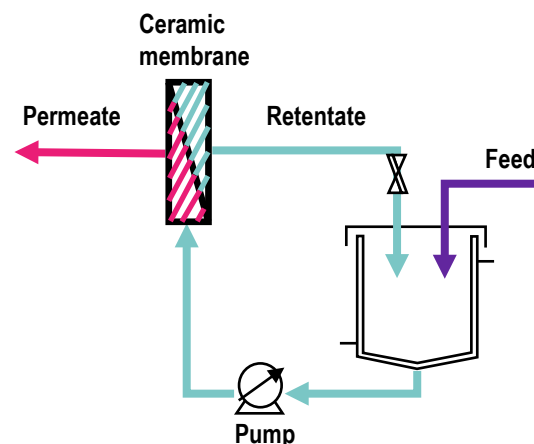
## Crossflow filtration test system with MICRO-Kleansep™ membranes

- Test mono-channel ceramic membranes for preliminary feasibility
- Portable and compact, for small process fluid volumes

## Capabilities:

- Permeate flowrate: 0.5 gal/hr or 2 l/h, maximum\*
- Low viscosity, water based fluids, only
- MF, UF, NF applications

(\* Based on 150 gfd (250 l/mh). Actual result depend on the process fluid composition and viscosity



## Benefits

- Quick results to determine separation characteristics
- Low volumes of process fluid can be used
- Easy to use, little assembly required
- Compact
- Portable
- Available for purchase or rent



### SYSTEM SPECIFICATIONS

Dimensions:	18" L x 24" W x 12"H (46 cm x 61 cm x 30 cm)
Wetted surfaces:	Stainless steel 316L, FFKM, PVC
Empty weight:	65 lbs (29 kgs)
Circulation flowrate:	0 to 2.2 gpm (0 to 0.5 m <sup>3</sup> /hr)
Maximum pressure:	60 psig (4.1 bar)
Maximum temperature:	122°F (50°C)
Operating volume:	1.3 to 2.6 gal ( 1 to 10 l)
Filtration type:	MF or UF or NF
Instrumentation:	Analog pressure gauge, only
Electric power:	120 V, 60 Hz

### MEMBRANE SPECIFICATIONS

Active area:	12.4 in <sup>2</sup> (80 cm <sup>2</sup> )
Membrane geometry:	Monochannel 0.4 in OD x 15.7 in long (10 mm OD x 400 mm long)
Maximum transmembrane pressure:	3 to 6 bar (depending on MWCO and pump)
Membrane maximum temperature (thermal resistance):	302°F (150°C)
Housing material:	Stainless steel 316L
Membrane material:	Oxide-based ceramic
Feed channel diameter:	0.23 in (6 mm)
pH:	0-14
Available pore size or MWCO:	0.45 µm, 0.2 µm, 0.1 µm HR, 300 kD HF, 150 kD, 50 kD, 15 kD, 5 kD, 1 kD

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