



Hollow Fiber UF Modules

MANN + HUMMEL ML1060-HP UF modules feature a 0.025-micron pore size Polyacrylonitrile (PAN) hollow fiber membrane potted in a U-shaped arrangement. With the ability to tolerate oil and grease, these modules are most suitable for treating oily waters and wastewaters from various industrial processes. They operate at a very low feed pressure due to the high hydrophilicity of PAN membrane, which leads to energy savings.

MEMBRANE CHARACTERISTICS

Membrane Polymer	Polyacrylonitrile (PAN)
Nominal Pore Size	0.025 µm
Membrane Type	Hollow Fiber
Hollow Fiber Diameter OD/ID	1.7 mm/ 0.9mm (0.067 inch/ 0.035 inch)

MODULE SPECIFICATIONS

Housing Material	UPVC
Membrane Potting	Epoxy
Filtration/ Backflush Flow Path	Out → In
Operating Mode	Dead-end
Preservation Mode	Dead-end (Preferred) / CrossFlow (Optional)
Nominal Membrane Area	65 m ² (646 ft ²)

OPERATING PARAMETERS

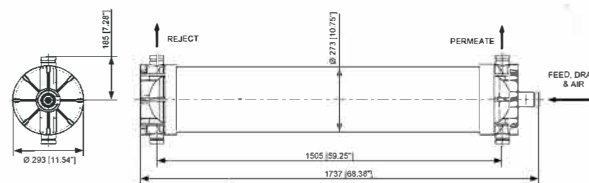
Filtrate Flow Range	0.6 - 5.2 m ³ /h (2.6 - 22.7 gpm)
Maximum Feed Pressure (at 20°C / 68°F)	5.0 bar (72.5 psi)
Maximum Transmembrane Pressure	1 bar (14.5 psi)
Maximum Backflush Pressure	14.4 m ³ /h (63.4 gpm)
Typical Air Scour Rate	10 Nm ³ /h (5.9 scfm)
Maximum Air Scour Pressure	0.6 bar (8.7 psi)
pH Range for Operation	2.0 - 10.0
Temperature Range	5 - 45°C (41 - 113°F)

CLEANING PARAMETERS

pH Range	1.0 - 10.0
Maximum Temperature	45°C (113°F)
Maximum Active Chlorine Concentration	100 ppm
Maximum Active Chlorine Exposure	100,000 ppm-hours
Maximum Hydrogen Peroxide Concentration	500 ppm
Maximum Hydrogen Peroxide Exposure	500,000 ppm-hours



PHYSICAL DIMENSIONS



Dry / Wet Weight	48 kg (105.8 lb)
Module Diameter	273 mm (10.7 in)
Module Length	1,737 mm (68.4in)
Feed / Reject Port	2" Victaulic
Permeate Port	2" Victaulic
Air Inlet Port	G 1/2"