

# AQUADYN® UA1060-HP

## Hollow Fiber UF Modules

AQUADYN® UA1060-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 & grease, these modules are most suitable for treating oily 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. This product specification sheet provides an overview of relevant technical data regarding AQUADYN® UA1060-HP modules. It can be used as a direct replacement for the AQUADYN® UA1060 module.

### MEMBRANE CHARACTERISTICS

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

### MODULE SPECIFICATIONS

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

### OPERATING PARAMETERS

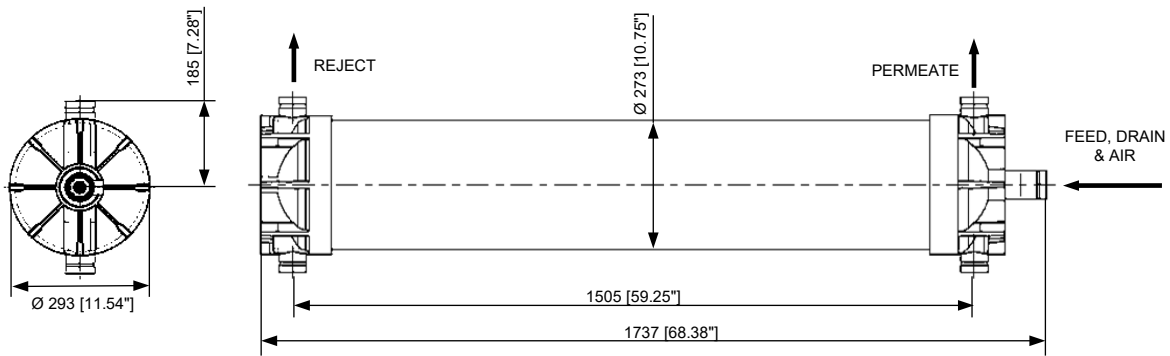
<b>Filtrate Flow Range</b>	0.6 - 5.2 m <sup>3</sup> /h (2.6 - 22.7 gpm)
<b>Maximum Feed Pressure (at 20°C / 68°F)</b>	5.0 bar (72.5 psi)
<b>Maximum Feed Pressure (at 45°C / 113°F)</b>	2.0 bar (29.0 psi)
<b>Maximum Transmembrane Pressure</b>	1 bar (14.5 psi)
<b>Maximum Backflush Pressure</b>	14.4 m <sup>3</sup> /h (63.4 gpm)
<b>Typical Air Scour Rate</b>	10 Nm <sup>3</sup> /h (5.9 scfm)
<b>Maximum Air Scour Pressure</b>	0.6 bar (8.7 psi)
<b>pH Range for Operation</b>	2.0 - 10.0
<b>Temperature Range</b>	5 - 45°C (41 - 113°F)

### CLEANING PARAMETERS

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



**PHYSICAL DIMENSIONS**



<b>Dry / Wet Weight</b>	48 kg (105.8 lb)
<b>Module Diameter</b>	273 mm (10.7 in)
<b>Module Length</b>	1737 mm (68.4 in)
<b>Feed / Reject Port</b>	2" Victaulic
<b>Permeate Port</b>	2" Victaulic
<b>Air Inlet Port</b>	G 1/2"

**IMPORTANT INFORMATION**

**Storage & Handling:**

AQUADYN® UA860-HP modules must be handled and stored appropriately to ensure proper operation and to prevent membrane damage.

**Installation & Start-Up:**

AQUADYN® UA1060-HP modules must be installed correctly before start-up.

**Cleaning:**

AQUADYN® UA1060-HP modules must be cleaned routinely via backwash to ensure proper operation and to prevent membrane damage.

MANN+HUMMEL Water & Fluid Solutions reserves the right to change specifications without prior notification.

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