

# AQUADYN® UA860

## Hollow Fiber UF Modules

AQUADYN® UA860 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. This product specification sheet provides an overview of relevant technical data regarding AQUADYN® UA860 modules.

### 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>	2.1 mm / 1.1 mm (0.083 inch / 0.043 inch)

### MODULE SPECIFICATIONS

<b>Housing Material</b>	Reinforced ABS and uPVC
<b>Membrane Potting</b>	Epoxy
<b>Filtration Flow Path</b>	Out → In
<b>Operating Mode</b>	Dead-End
<b>Preservative</b>	Sodium meta-bisulphite
<b>Nominal Membrane Area</b>	45 m <sup>2</sup> (484 ft <sup>2</sup> )

### OPERATING PARAMETERS

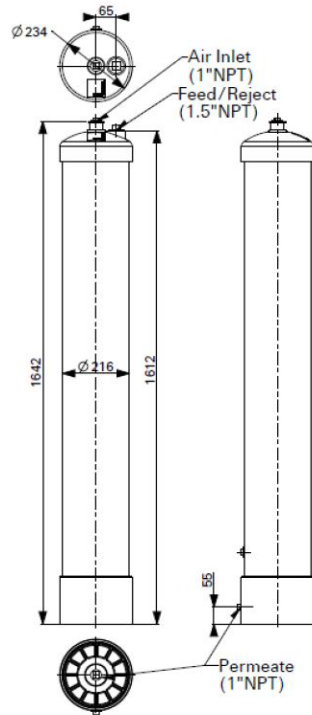
<b>Filtrate Flow Range</b>	0.45 - 3.6 m <sup>3</sup> /h (1.9 - 15.8 gpm)
<b>Maximum Feed Pressure (at 20°C / 68°F)</b>	2.0 bar (29.0 psi)
<b>Maximum Transmembrane Pressure</b>	1.0 bar (14.5 psi)
<b>Maximum Backflush Flow</b>	7.2 m <sup>3</sup> /h (31.7 gpm)
<b>Typical Air Scour Rate</b>	4.2 - 8.3 Nm <sup>3</sup> /h (2.5 - 4.9 scfm)
<b>Maximum Air Scour Pressure</b>	0.5 bar (7.3 psi)
<b>Ph Range for Operation</b>	2.0 - 10.0
<b>Temperature Range</b>	5 - 40°C (41 - 104°F)

### CLEANING PARAMETERS

<b>pH Range</b>	1.0 - 10.0
<b>Max. Temperature</b>	40°C (104°F)
<b>Max. Active Chlorine Concentration</b>	100 ppm
<b>Max. Active Chlorine Exposure</b>	100,000 ppm-hours
<b>Max. Hydrogen Peroxide Concentration</b>	500 ppm
<b>Max. Hydrogen Peroxide Exposure</b>	500,000 ppm-hours



**PHYSICAL DIMENSIONS**



<b>Dry Weight</b>	40 kg (88 lb)
<b>Module Diameter</b>	216mm (8.5in)
<b>Module Length</b>	1642mm (64.6in)
<b>Feed / Reject Port</b>	1.5" NPT
<b>Permeate Port</b>	1" NPT
<b>Air Inlet Port</b>	1" NPT

**IMPORTANT INFORMATION**

**Storage & Handling:**

AQUADYN® UA860 modules must be handled and stored appropriately to ensure proper operation and to prevent membrane damage. Please see AQUADYN® UA860 Product Manual.

**Installation and Start-up:**

AQUADYN® UA860 modules must be installed correctly before start-up. For a detailed installation and start-up procedure, please see AQUADYN® UA860 Product Manual.

**Cleaning:**

AQUADYN® UA860 modules must be cleaned routinely via backwash to ensure proper operation and to prevent membrane damage. Please see AQUADYN® UA860 Product Manual.

MICRODYN-NADIR reserves the right to change specifications without prior notification.

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