

MICRODYN AQUADYN® UA860 Hollow Fiber UF Modules

MICRODYN 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 MICRODYN AQUADYN® UA860 modules.

MEMBRANE CHARACTERISTICS

Membrane Polymer	Polyacrylonitrile (PAN)
Nominal Pore Size	0.025 µm
Membrane Type	Hollow Fiber
Hollow Fiber Diameter OD/ID	2.1 mm / 1.1 mm (0.083 inch / 0.043 inch)

MODULE SPECIFICATIONS

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

OPERATING PARAMETERS

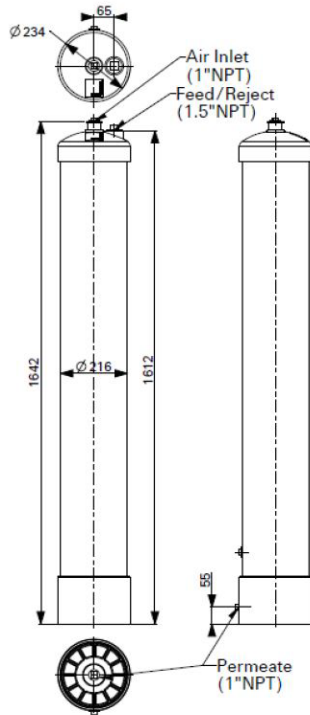
Filtrate Flow Range	0.45 - 3.6 m ³ /h (1.9 - 15.8 gpm)
Maximum Feed Pressure (at 20°C / 68°F)	2.0 bar (29.0 psi)
Maximum Transmembrane Pressure	1.0 bar (14.5 psi)
Maximum Backflush Flow	7.2 m ³ /h (31.7 gpm)
Typical Air Scour Rate	4.2 - 8.3 Nm ³ /h (2.5 - 4.9 scfm)
Maximum Air Scour Pressure	0.5 bar (7.3 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
Max. Temperature	45°C (113°F)
Max. Active Chlorine Concentration	100 ppm
Max. Active Chlorine Exposure	100,000 ppm-hours
Max. Hydrogen Peroxide Concentration	500 ppm
Max. Hydrogen Peroxide Exposure	500,000 ppm-hours



PHYSICAL DIMENSIONS



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

IMPORTANT INFORMATION

Storage & Handling:

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

Installation and Start-up:

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

Cleaning:

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

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

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