

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

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

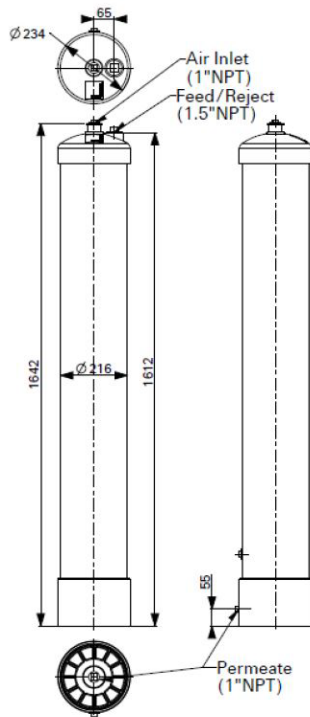
Filtrate Flow Range	0.45 - 3.6 m ³ /h (1.9 - 15.8 gpm)
Maximum Feed Pressure (at 20°C / 68°F)	2.0 bar (29.0 psi)
Maximum Transmembrane Pressure	1.0 bar (14.5 psi)
Maximum Backflush Flow	7.2 m ³ /h (31.7 gpm)
Typical Air Scour Rate	4.2 - 8.3 Nm ³ /h (2.5 - 4.9 scfm)
Maximum Air Scour Pressure	0.5 bar (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:

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.

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

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