

AQUADYN UA860-HP *LENNTECH*

Hollow Fiber UF Modules

WATER TREATMENT Solutions

AQUADYN UA860-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 UA860-HP modules. It can be used as a direct replacement for the AQUADYN UA860 module.

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	uPVC
Membrane Potting	Epoxy
Filtration Flow Path	Out → In
Operating Mode	Dead-End
Preservative	Sodium meta-bisulfite / Glycerin
Nominal Membrane Area	45 m ² (484 ft ²)

OPERATING PARAMETERS

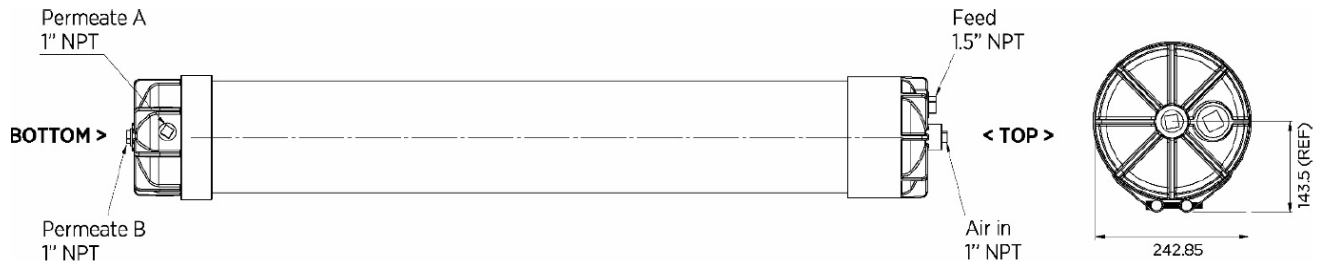
Filtrate Flow Range	0.45 – 3.6 m ³ /h (1.9 – 15.8 gpm)
Maximum Feed Pressure (at 20°C / 68°F)	5.0 bar (72.5 psi)
Maximum Feed Pressure (at 45°C / 113°F)	2.0 bar (29.0 psi)
Maximum Transmembrane Pressure	2.0 bar (29.0 psi)
Maximum Backflush Flowrate	7.2 m ³ /h (31.7 gpm)
Typical Air Scour Rate	4.2 – 8.3 Nm ³ /h (2.5 – 4.9 scfm)
Maximum Air Scour Pressure	0.8 bar (11.6 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 (Shipping)	44 kg (96.8 lb)
Module Diameter	225 mm (8.9 in)
Module Length	1642 mm (64.6 in)
Feed / Reject Port	1.5" NTP
Permeate Port	1" NTP
Air Inlet Port	1" NTP

IMPORTANT INFORMATION

Storage & Handling:

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

Installation and Start-up:

AQUADYN UA860-HP modules must be installed correctly before start-up.

Cleaning:

AQUADYN UA860-HP modules must be cleaned routinely via backwash to ensure proper operation and to prevent membrane damage.

For details, refer to Operation Manual.

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

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