

AQUADYN® UA860-HP

Hollow Fiber UF Modules

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 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-HP 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

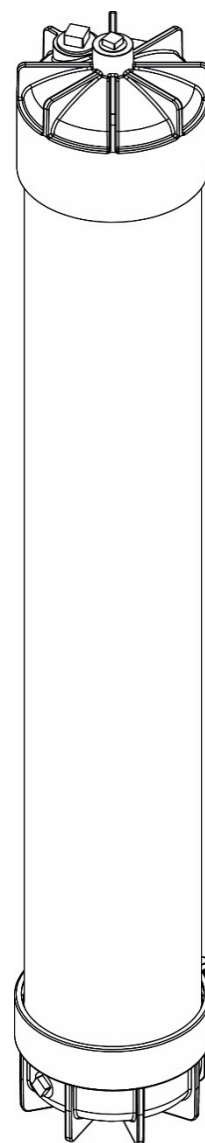
Housing Material	UPVC
Membrane Potting	Epoxy
Filtration/ Backflush Flow Path	Out → In / In → Out
Operating Mode	Dead-end
Preservative	Sodium meta-bisulphite
Nominal Membrane Area	48 m ² (516 ft ²)

OPERATING PARAMETERS

Filtrate Flow Range	0.45 - 3.8 m ³ /h (1.9 - 16.7 gpm)
Maximum Feed Pressure (at 20°C / 68°F)	5.0 bar (87.0 psi)
Maximum Transmembrane Pressure	1.0 bar (14.5 psi)
Maximum Backflush Pressure	7.6 m ³ /h (31.7 gpm)
Typical Air Scour Rate	4.2 - 8.3 Nm ³ /h (2.5 - 5.3 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
Maximum Temperature	40°C (104°F)
Maximum Active Chlorine Concentration	100 ppm
Maximum Active Chlorine Exposure	100,000 ppm-hours
Maximum Hydrogen Peroxide Concentration	500 ppm
Maximum Hydrogen Peroxide Exposure	500,000 ppm-hours



PHYSICAL DIMENSIONS



Dry / Wet Weight	44 kg (97 lb)/ 64kg (141 lb)
Module Diameter	225 mm (8.9 in)
Module Length	1,642 mm (64.6 in)
Feed / Reject Port	1.5" NPT
Permeate Port	1" NPT
Air Inlet Port	1" NPT

IMPORTANT INFORMATION

Storage & Handling:

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

Installation and Start-up:

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

Cleaning:

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

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

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