

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

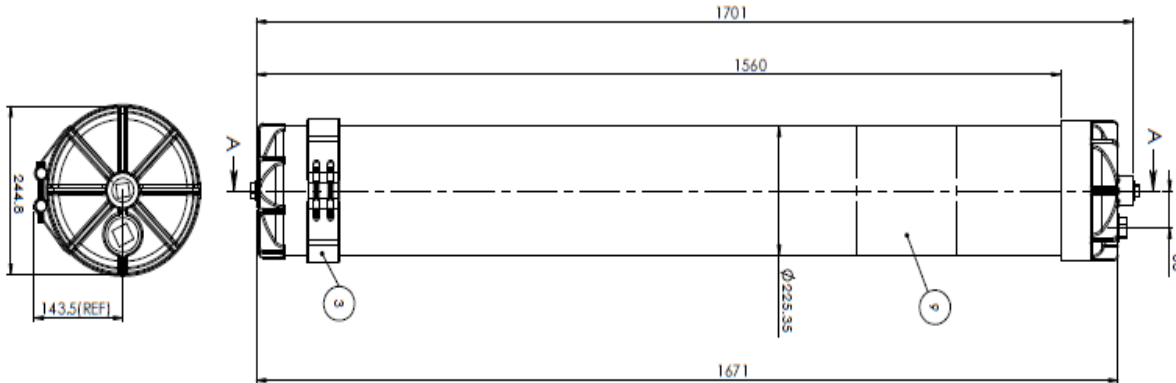
Filtrate Flow Range	0.45 – 3.8 m ³ /h (1.9 – 16.7 gpm)
Maximum Feed Pressure (at 20°C / 68°F)	5.0 bar (87.0 psi)
Maximum Transmembrane Pressure	1.0 bar (14.5 psi)
Maximum Backflush Pressure	7.6 m ³ /h (31.7 gpm)
Typical Air Scour Rate	4.2 – 8.3 Nm ³ /h (2.5 – 5.3 scfm)
Maximum Air Scour Pressure	0.5 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 & 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.

Contact

Europe

Germany: +49 611 962 6001
 Italy: +39 0721 1796201
 info-wfs@mann-hummel.com

Americas

USA: +1 805 964 8003
 sales.mnus@microdyn-nadir.com

Asia

Singapore: +65 6457 7533
 China: +86 10 8413 9860
 waterchina@mann-hummel.com