

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

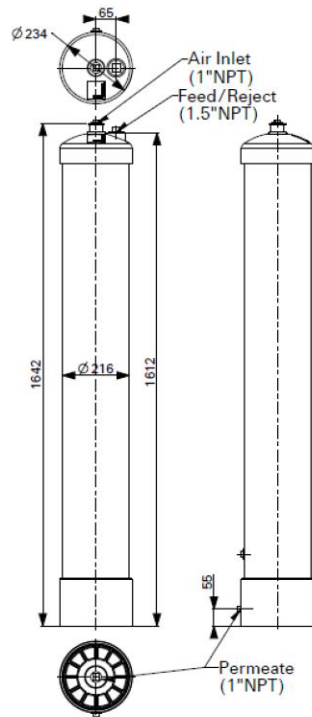
| | |
|---|---|
| Filtrate Flow Range | 0.45 - 3.6 m ³ /h (1.9 - 15.8 gpm) |
| Maximum Feed Pressure (at 20°C / 68°F) | 2.0 bar (29.0 psi) |
| Maximum Transmembrane Pressure | 1.0 bar (14.5 psi) |
| Maximum Backflush Flow | 7.2 m ³ /h (31.7 gpm) |
| Typical Air Scour Rate | 4.2 - 8.3 Nm ³ /h (2.5 - 4.9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