

EnviQ® RF30

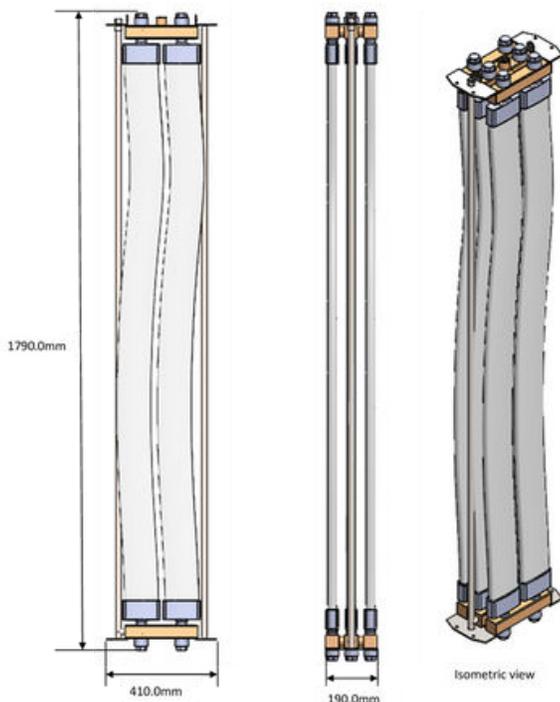
Reinforced Fiber Ultrafiltration Membranes



EnviQ RF-30 is a compact, ready-to-install ultrafiltration module engineered for flexible OEM integration and a wide range of wastewater treatment applications, including IT parks, industrial, and residential complexes.

Designed for smaller flow rates while maintaining the proven performance of EnviQ RF membrane technology. QUA offers a modular membrane solution that empowers OEMs to configure systems from EnviQ 120 to EnviQ 1900 or combine multiple RF-30 units for tailored capacity.

With a compact footprint, fully assembled construction, and freedom for custom piping and system design, EnviQ RF-30 delivers ease of installation and operational flexibility without compromising on membrane durability, high-quality effluent, or dual-air operation performance.



Technical Specifications

Parameter		Specifications
Pore Size		0.04 μ
Membrane Type		Hydrophilic PVDF, Hollow Fiber Outside-In
Membrane pH Tolerance		2-10
Membrane Temperature Tolerance ^{#1}		5 - 40 °C / 41 - 104 °F
Total Membrane Area m ²		30
Single Cartridge Area m ²		5
Number of Membrane Cartridges		6
Flow m ³ /hr (gpm)	Min	0.3 (1.3)
	Max	0.9 (4.0)
Air Flow m ³ /hr ^{#2} (CFM)		5-9 (3-5)
Dimensions		
Dimensions	Length mm (inch)	410 (16.1)
	Width mm (inch)	190 (7.5)
	Height mm (inch)	1790 (70.5)
Module Weight (Dry) kgs (lbs)		34 (75.0)
Connection Details		
Permeate		1" FNPT
Air Diffuser		1/2" FNPT
Permeate Header Material		SS 316
Outer Frame Material		SS 316

#1 The optimal temperature range for the biological active sludge is 20 -37 °C.

#2 Air requirement given is for membrane scrubbing only and does not include air for the biological process. Refer EnviQ® Software for actual air requirements

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Operational Parameters	UOM	Value
MLSS	mg/L	3,000 - 15,000
Operating pH Range	-	5 to 9
Filtration		
Flux Range	Lmh/ gfd	10 – 30 / 6 – 17.6 ^{#3} (dependent on feed conditions)
Operating Transmembrane Pressure	mm Hg / Psi	100 – 200 / 1.9 – 3.9
Maximum Transmembrane Pressure	mmHg / Psi	350 / 6.8
Filtration time	Min	5 to 30
Rest Time	Sec	20 to 120
Backwash		
Maximum Backwash Pressure	Psi (bar)	8 (0.6)
Backwash Frequency	N/A	After every 15 to 60 min
Backwash Time	Sec	30 to 60
Product		
Typical Product TSS	mg/L	< 3
Typical Product Turbidity	NTU	<1
Cleaning Chemicals		
Maintenance Cleaning ^{#4}	N/A	NaOCl (250 ppm as Cl ₂) and Citric Acid (1000 ppm)
Recovery Cleaning ^{#5}	N/A	NaOCl (1000 ppm as Cl ₂) and Citric Acid (1000 ppm)

#3 Actual flux would be dependent on the feed condition. Please consult QUA for guidance on modified air flow requirement for flux greater than 25 Lmh

#4 Typically required once a week depending on feed condition

#5 Typically required once every 3-4 months depending on feed condition