



EFC-7200

MEMBRANE MICROFILTRATION SYSTEMS (EF AND EFC SERIES)

MICROFILTRATION SYSTEMS

The Evoqua tubular polymeric microfiltration systems are skid-mounted and factory assembled. The factory assembly, including wiring and testing, ensures easy reassembly and installation.

The tubular membranes are designed for very high solids loadings and can operate with up to 2.0 to 5.0 weight percent solids. The KYNAR® membrane is very chemically inert so it can withstand pH ranges from 0.0 to 14.0 standard units.

The rugged membranes are non-plugging, abrasive and chlorine resistant. All materials in contact with the wastewater or cleaning solutions are either PVC, polyethylene, stainless steel or other corrosion resistant materials.

The membrane provides for an absolute barrier to the passage of solids and therefore is capable of removing metals (and other contaminants) to their solubility limits.

This also results in the removal of most colloids and therefore provides a filtrate that exhibits a very low SDI, making the filtrate a perfect feed for a reverse osmosis unit or other polishing technology.

A fully automatic backpulse mechanism is included to periodically cause a reverse flow of filtrate across the membrane, dislodging contaminants and allowing the high velocity flow to sweep them away. The backpulse prolongs the on-line cycles and reduces the cleaning requirements.

Each system is supplied fully assembled with all necessary equipment for operation, including a piped-in-place cleaning system, which includes two tanks and a dedicated cleaning pump. Units are designed for automatic operation and can be supplied with a fully automated cleaning cycle if required.

System Features

- KYNAR® PVDF membrane provides excellent chemical resistance and long life
- Tubular design allows for high solids loading
- Piped-in-place cleaning system is standard on all units
- Units are skid-mounted
- Rapid installation assured by skidded assemblies and mistake proof electrical connections

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SPECIFICATIONS

Model Number	EF/EFC-400	EF/EFC-424	EF/EFC-1200	EF/EFC-2400	EF/EFC-3600	EF/EFC-4800	EF/EFC-7200	EF/EFC-10800
Low Density Tube Capacity (nominal)	4 - 15 gpm 0.9 - 3.4 m ³ /h	8 - 30 gpm 1.8 - 6.8 m ³ /h	12 - 36 gpm 2.7 - 8.2 m ³ /h	24 - 72 gpm 5.5 - 16 m ³ /h	36 - 108 gpm 8.2 - 25 m ³ /h	48 - 144 gpm 11 - 33 m ³ /h	72 - 216 gpm 16 - 49 m ³ /h	108 - 324 gpm 25 - 74 m ³ /h
Low Density Tubes per Module	4	4	10	10	10	10	10	10
High Density Tube Capacity (nominal)	4 - 18 gpm 0.9 - 4.1 m ³ /h	18 - 37 gpm 4.1 - 8.4 m ³ /h	17 - 52 gpm 3.9 - 12 m ³ /h	35 - 105 gpm 7.9 - 24 m ³ /h	52 - 157 gpm 12 - 36 m ³ /h	70 - 210 gpm 16 - 48 m ³ /h	105 - 315 gpm 24 - 72 m ³ /h	157 - 472 gpm 36 - 107 m ³ /h
High Density Tubes per Module	5	5	14	14	14	14	14	14
Quantity (min-max)	4-12	8-24	6-12	12-24	18-36	24-48	36-72	54-108
Concentration Tank Volume*	275 gallons 1.0 m ³	550 gallons 2.1 m ³	660 gallons 2.5 m ³	1,375 gallons 5.2 m ³	1,700 gallons 6.4 m ³	2,600 gallons 9.8 m ³	4,280 gallons 16.2 m ³	5,000 gallons 18.9 m ³
Process Pump(s)	Qty. 1 7.5 HP	Qty. 1 15 HP	Qty. 1 20 HP	Qty. 1 30 HP	Qty. 1 50 HP	Qty. 2 30 HP	Qty. 2 50 HP	Qty. 3 50 HP
Dimensions (L x W x H)	11'-10" x 4'-10" x 8'-11"	18'-3" x 5'-4" x 11'-7"	24'-7" x 5'-10" x 9'-10"	25'-5" x 7'-1" x 10'-0"	33'-0" x 8'-1" x 11'-10"	26'-9" x 9'-6" x 11'-3"	37'-10" x 17'-1" x 11'-11"	39'-4" x 25'-3" x 11'-11"
	3,607 x 1,473 x 2,718 mm	5,563 x 1,626 x 3,531 mm	7,493 x 1,778 x 2,997 mm	7,747 x 2,159 x 3,048 mm	10,058 x 2,464 x 3,607 mm	8,153 x 2,896 x 3,429 mm	11,532 x 5,207 x 3,632 mm	11,989 x 7,696 x 3,632 mm
Shipping Weight	1,000 lbs 450 kg	2,000 lbs 900 kg	7,500 lbs 3,400 kg	10,000 lbs 4,550 kg	15,000 lbs 6,800 kg	18,000 lbs 8,160 kg	29,000 lbs 13,150 kg	43,000 lbs 19,500 kg
Operating Weight	4,000 lbs 1,810 kg	8,000 lbs 3,630 kg	18,000 lbs 8,160 kg	26,000 lbs 11,800 kg	34,000 lbs 15,420 kg	52,000 lbs 23,590 kg	73,000 lbs 33,110 kg	98,000 lbs 44,450 kg

* (Note: Included with EFC Series only.)



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