

FFM-EU-4020G

Separate roll type ultrafiltration membrane element for electrophoretic paint

PRODUCT DESCRIPTION	Membrane Chemistry:	PVDF
	Through liquid tube:	UPVC
	Membrane Shell Material:	FRP
	Seal up:	EPDM
	Effective membrane area:	34ft ² (3.2 m ²)

OPERATION PARAMETERS

Maximum inlet pressure:	65psi (4.4bar)
Recommended inlet pressure:	44-60 psi (3.0-4.1 bar)
Recommended export pressure:	15-40 psi (1.0-2.7 bar)
Maximum operating temperature:	125 °F @56psi (51.6°C@3.9bar)
Allowable pH value—Continuous operation:	2.0-10.0 pH @ 125°F (51.6°C)
Allowable pH value—Short time cleaning 30min:	1.5-11.5 pH @ 125°F (51.6°C)

Design Parameters

Feed quantity:	20-24GPM (75-90 LPM)
Water yield:	0.5-0.8GPM (1.8-3.0 LPM)

Important Information

1. The membrane must be kept wet. If the cut-off element of the system must be kept full of pure water or permeate liquid, otherwise it will cause irreversible damage.
2. Any type of scale inhibitor is not suitable for electrophoresis ultrafiltration system.
3. any silicone containing alkali material (waterproofing spray, lubricating oil or grease, etc.) and phosphating slag are not allowed to be used in the ultrafiltration system. Substance will cause complete or irreversible membrane plugging.
4. The coating entering the ultrafiltration membrane system must be precisely filtered by 25-50 μ m aperture, and good filtration will effectively reduce the risk of membrane group being polluted and blocked.
5. The preventive measures must be able to take reasonable measures to avoid back pressure or vacuum state when parking. Excessive back pressure or vacuumIt will make the membrane layer and fall off.
6. Under the condition of "low flow" (the bypass valve is open or the circulating pump is stopped), it is easy to cause the paint coating to deposit on the film surface. This situation should be avoided.
7. Regular test and adjustment of the parameters of each component of the tank solution, relatively high content of additives, low pH value and the conductivity of water dripping from the workpiece into the tank can effectively prevent membrane fouling and thus prolong the service life of the ultrafiltration membrane.
8. Before the paint is added to the ultrafiltration system, at least the paint shall be fully circularly matured to make the paint mix evenly, otherwise the film will not be qualified.

