



HM UF 80 PVDF High Performance Ultrafiltration Module

MODEL	Surface Area (m ²)	Dimensions (mm)							Weight (kg)
		A	B	C	D	E	F	G	
HM UF 80 PVDF	80	2038 ±1	1923 ±1	360 ±1	172 ±1	250 ±1	289 ±1	205 ±1	58

- PVDF based hollow fiber membranes have long lifetime due to their high mechanical strength and chemical resistance.
- The capacity of clean water production is higher due to modification of membranes which enhances the hydrophilicity of membrane.

Membrane Specifications:

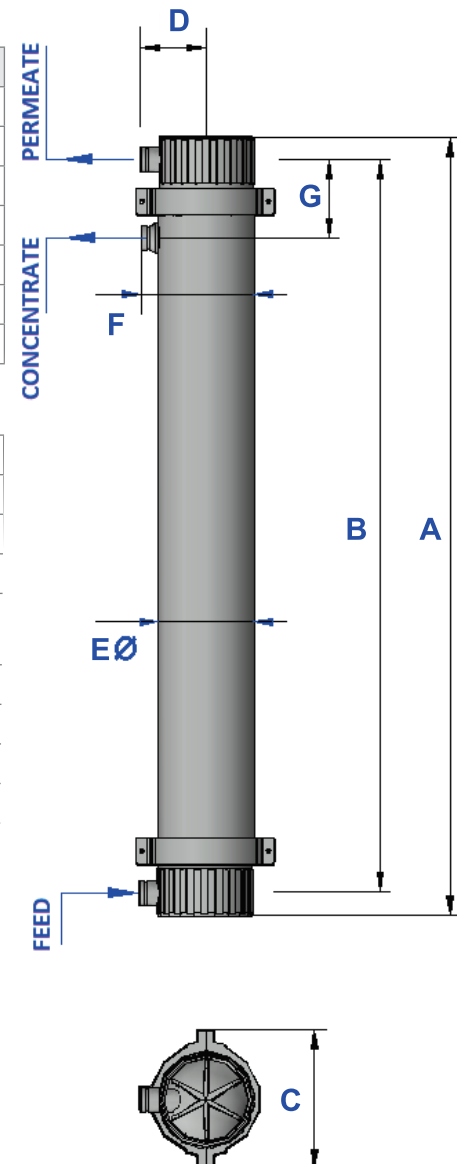
Model		HM UF 80 PVDF
Type		Hollow Fiber Ultrafiltration
Material		Modified PVDF
Nominal Pore Size	nm (μ)	30 (0.03)
MWCO	Dalton	100,000
Fiber Bore Diameter (Inner)	mm	0.8
Fiber Bore Diameter (Outer)	mm	1.4
Housing & End Cap (MOC)		UPVC

Module Data:

Membrane Surface Area (Active)	m ²	80
Outer Diameter Housing	mm	250
Nozzels	mm	DN50 Victaulic End
Empty Weight With End caps	kgs	58

Operational Data:

Mode of Operation		Out to In (Dead End / Cross Flow)
Operating Flux Range	gfd (lmh)	26 - 105 (45 - 180)
Operating Temperature	°C	5 - 40
Feed Pressure Operating Range	bar	2.0 - 3.0
Feed Pressure Maximum @ 25°C	bar	5
Trans membrane Pressure	bar	0.4 - 2
pH Range Operation		2.0 - 11.0
Maximum NaOCl	mg/l	2000
Particle Dimension	μ	< 300
Total Suspended Solid (TSS)	ppm	50 (max 80)
Max Feed Turbidity	NTU	50 (max 250)
Oil & Grease		Nil



Performance Details:

Filtrate Flow Range	gpm (m ³ /hr)	15.84 - 63.38 (3.6 - 14.4)
Filtrate SDI		≤ 2.5
Filtrate Turbidity	NTU	≤ 0.2
Bacteria Reduction	log	6
Virus Reduction	log	4

Process Data:

Backwash Flux	gfd (lmh)	59 - 88 (100 - 150)
Backwash Pressure	bar	2.5 max
Air Scouring Flowrate	Nm ³ /hr	8 - 12
Chemically Enhanced Backwash (CEB):		
NaOH	mg/l	500
HCL	mg/l	1000
NaOCl	mg/l	1000

Note:

Backwash / CEB / CIP frequency & duration shall be as per the design based on the feed water source, quality & fluctuations

Important Warnings & Information:

- For the recommended design range & guidelines, please follow this technical bulletin or call an application specialist.
If the operating limits given in this product information bulletin are not strictly followed, the warranty will be null and void.
- The customer is fully responsible for the effects of chemicals that are incompatible with the membrane modules.

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