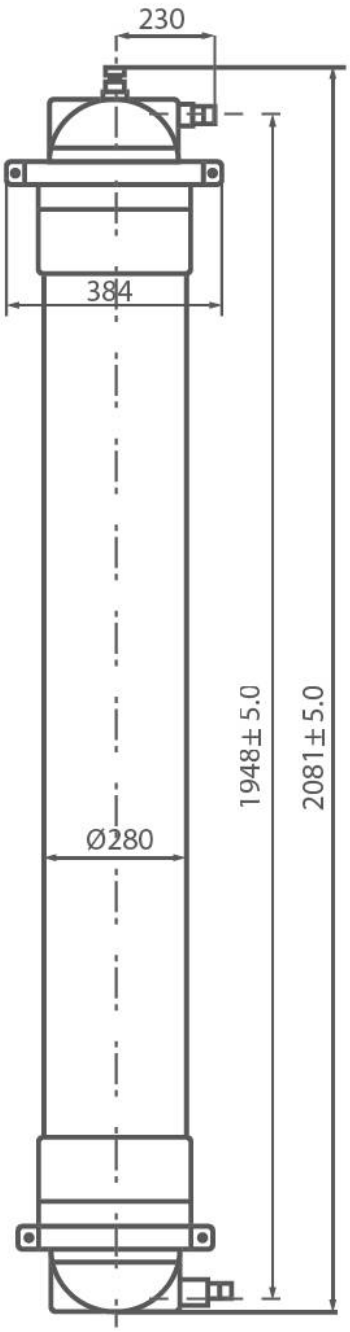
ION EXCHANGE
Refreshing the Planet

HYDRAMEM®
HIGH PERFORMANCE MEMBRANES

HM UF 80 PES-10K High Performance Ultraltration Module

- High Strength Modified PES Hollow Fiber Membranes
- Low Operating Pressure & Power Consumption
- No Air Scouring required



Membrane Specifications:

Model		HM UF 80 PES-10K
Type		Hollow Fiber Ultrafiltration
Material		Modified Polyether Sulphone
MWCO	Dalton	10000
Fiber Bore Diameter (Inner)	mm	0.8
MOC:		
Housing		UPVC
End Cap / Couplings		GFPP

Module Data:

Membrane Surface Area (Active)	m^2	80
Outer Diameter Housing	mm	280
Total Module Length	mm	2080 ± 5.0
Distance between feed ports	mm	1948 ± 5.0
Distance feed - module center axis	mm	230 ± 2.0
Feed / Permeate Port	Inch	2" Victaulic End
Backwash In / Out	Inch	2" Victaulic End
Empty Weight With End caps	kgs	65

Operational Data:

Mode of Operation		In to Out (Dead End / Cross Flow)
Operating Flux Range	lmh	100
Operating Temperature	°C	15 - 45
Feed Pressure Operating Range	bar	2.0 to 2.5
Burst Pressure (Housing)	bar	6.0
Trans membrane Pressure	bar	1.0 - 1.4
pH Range Operation		4.0 - 10.0
Chlorine Tolerance Instantaneous	ppm	200 (for short duration)
Chlorine Tolerance Maximum	ppm-hrs	200,000

Performance Details:

Filtrate SDI		≤ 3
Colloidal Silica Retention	Inlet Silica: ≤ 5 ppm	Outlet: ≤ 10 ppb for the MWCO greater than 10000 daltons
	Inlet Silica: > 5 ppm	Outlet: 99.8% rejection for the MWCO greater than 10000 daltons

Process Data:

Backwash Flux	gfd (lmh)	100 - 141 (170 - 240)
Backwash Pressure	bar	1.5 - 2.5
Backwash Frequency		Once in every 30 - 60 min*
Backwash Duration	sec	30 - 60*
Forward Flush Duration	sec	15 - 45*
Forward Flush Flow	m^3/hr	Feed Flow*
Chemical Enhanced Backwash		Once in 8/16/24 hrs*
NaOH	pH	12 -- 13
HCL	pH	3 -- 4
Disinfection Chemicals		NaOCl

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

Important Warnings & Information:
1. 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.
2. The customer is fully responsible for the effects of chemicals that are incompatible with the membrane modules.

HYDRAMEM HIGH PERFORMANCE MEMBRANES is the registered trademark of Ion Exchange (India) Ltd.

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