



## HM UF 80 PVDF-*i flo* Ultrafiltration Module

- With pre-engineered integrated header
- Compact modular design with reduced footprint
- Easy to install with flexibility to adapt & extend
- Versatile & reliable design

### Membrane Specifications:

Model		HM UF 80 PVDF- <i>i flo</i>
Type		Hollow Fiber Ultrafiltration
Material		Modified PVDF
Nominal Pore Size	nm ( $\mu$ )	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

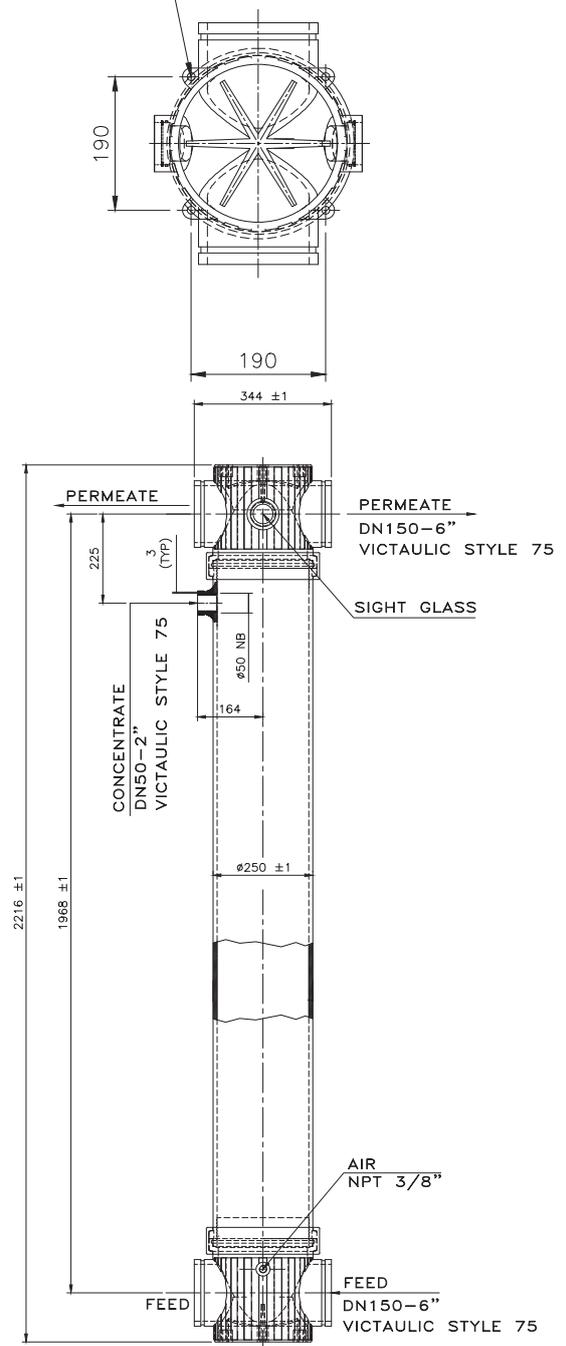
### Module Data:

Membrane Surface Area (Active)	m <sup>2</sup>	80
Outer Diameter Housing	mm	250
Nozzels (Vactaulic End)	mm	DN150 & DN50
Empty Weight With End caps	kgs	78

### 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	$\mu$	< 300
Total Suspended Solid (TSS)	ppm	50 (max 80)
Max Feed Turbidity	NTU	50 (max 250)
Oil & Grease		Nil

M10x55LG.BOLT



## Performance Details:

Filtrate Flow Range	gpm (m <sup>3</sup> /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 <sup>3</sup> /h	12 - 15 (max 20)
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.

To the best of our knowledge, the information contained in this publication is accurate. Ion Exchange (India) Ltd., maintains a policy of continuous development and reserves the right to amend the information given herein without notice. Please contact our regional/branch office for current product specification.

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