



ULTRA FILTRATION MEMBRANES

FEATURES

- » Low fouling
- » High tolerance to chlorine, peroxide and other oxidants
- » Resistance to pH extremes
- » Low pressure operation
- » Operational flexibility (direct/cross flow filtration)
- » Innovative design
- » High flux, low pressure operation
- » Low energy consumption
- » Simple cleaning

APPLICATIONS

- » Drinking water treatment
- » Pre-treatment to reverse osmosis and nano filtration
- » Desalination pre-treatment
- » Industrial process water treatment
- » Municipal wastewater

TECHNICAL SPECIFICATIONS

Model			HYDRAcap 40	HYDRAcap 60	HYDRAcap 80	HYDRA cap 40-LD	HYDRAcap 60-LD	HYDRAcap MAX 40	HYDRAcap MAX 60	HYDRAcap MAX 80	
	Units										
Performance¹	Filtrate Flow	m ³ /h	1.8-4.3	2.7-6.7	3.7-9.0	1.1-28	1.8-4.3	1.7-5.5	2.7-8.6	3.6-11.6	
	Filtrate Turbidity	NTU	0.07	0.07	0.07	0.07	0.07	0.10	0.10	0.10	
	Bacteria Removal	log	4	4	4	4	4	4	4	4	
Type	Membrane Polymer		PES	PES	PES	PES	PES	PVDF	PVDF	PVDF	
	Nominal Membrane Area	m ²	30	46	62.2	19.3	30	52	78	105	
	Fiber Dimensions	mm	0.8/1.4	0.8/1.4	0.8/1.4	1.2/2.0	1.2/2.0	0.6/1.2	0.6/1.2	0.6/1.2	
	Pore size	micron	0.02	0.02	0.02	0.02	0.02	0.08	0.08	0.08	
Application Data²	Typical Filtrate Flux Range	l/m ² /h	59-145	59-145	59-145	59-145	59-145	34-110	34-110	34-110	
	Maximum Applied Feed Pressure	psig (bar)	73 (5)*	73 (5)*	73 (5)*	73 (5)*	73 (5)*	73 (5.0)*	73 (5.0)*	73 (5.0)*	
	Maximum Trans-membrane Pressure	psig (bar)	20 (1.4)	20 (1.4)	20 (1.4)	20 (1.4)	20 (1.4)	30 (2.0)	30 (2.0)	30 (2.0)	
	Maximum Backwash Trans-membrane Pressure	psig (bar)	20 (1.4)	20 (1.4)	20 (1.4)	20 (1.4)	20 (1.4)	-	-	-	
	Instantaneous Chlorine Tolerance	ppm	100**	100**	100**	100**	100**	5000***	5000***	5000***	
	Instantaneous Hydrogen Peroxide Tolerance	ppm	200**	200**	200**	200**	200**	-	-	-	
	Maximum Chlorine Exposure	ppm-hours	200000	200000	200000	100000	100000	750000	750000	750000	
	Maximum Instantaneous Feed Turbidity	NTU	100	100	100	200	200	300	300	300	
	Maximum Operating Temperature	F (C)	104 (40)	104 (40)	104 (40)	104 (40)	104 (40)	104 (40)	104 (40)	104 (40)	
	pH Operating Range		4.0-10.0	4.0-10.0	4.0-10.0	4.0-10.0	4.0-10.0	4.0-10.0	4.0-10.0	4.0-10.0	
	Cleaning pH Range		1.5-13.0	1.5-13.0	1.5-13.0	1.5-13.0	1.5-13.0	1.0-3.0	1.0-3.0	1.0-3.0	
	Operating Mode		Inside to Outside Filtration Direct Flow or Cross Flow						Outside to Inside Filtration Dead End or Cross flow mode		
Typical Process Conditions	Backwash Flux	l/m ² /h	170-255	170-255	170-255	170-255	170-255	-	-	-	
	Air Scour Rate ³	m ³ /h	-	-	-	-	-	12.3-15.4	12.3-15.4	12.3-15.4	
	Backwash/ Air Scour ³ Duration	seconds	30-60	30-60	30-60	30-60	30-60	120-240	120-240	120-240	
	Backwash/ Air Scour ³ Frequency	minutes	20-60	20-60	20-60	20-60	20-60	20-60	20-60	20-60	
	Maintenance Clean Frequency	times per day	0 to 4	0 to 4	0 to 4	0 to 4	0 to 4	1 to 3	1 to 3	1 to 3	
	Maintenance Clean Duration	minutes	1 to 30	1 to 30	1 to 30	1 to 30	1 to 30	20 to 30	20 to 30	20 to 30	
	Disinfection Chemicals		NaOCl, H ₂ O ₂ , ClO ₂ or NH ₂ Cl						NaOCl, ClO ₂ or NH ₂ Cl		
	Cleaning Chemicals		NaOH, HCl, H ₂ SO ₄ OR Citric Acid						NaOH, HCl, H ₂ SO ₄ OR Citric Acid		

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