

Nanofiltration membrane elements  
for brackish water softening  
and clarification

## Product Description

Membrane material	Polypiperazineamide
Membrane type	NaRM
Design	Spiral wound
Features	Shrink film-wrapped (-F)

## Specification

Model	Flow*		Rejection	Area		Spacer	
	m <sup>3</sup> /hr	GPD		m <sup>2</sup>	ft <sup>2</sup>	mm	mil
8040-F	1,50*/1.2**	9500*/7600**	60*/99**	37	400	0,71	28
8040-F2	1,42*/1.1**	9000*/7200**	60*/99**	35	375	0,79	31
8040-F3	1,34*/1.0**	8500*/6800**	60*/99**	33	360	0,86	34
8040-F-DRY	1,50*/1.2**	9500*/7600**	60*/99**	37	400	0,71	28
8040-F2-DRY	1,42*/1.1**	9000*/7200**	60*/99**	35	375	0,79	31
8040-F3-DRY	1,34*/1.0**	8500*/6800**	60*/99**	33	360	0,86	34

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Test conditions:  
test solution of NaCl  
500 mg/l, P=0,7 MPa,  
T=25 °C, pH=7,5,  
Recovery -15%

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Test conditions:  
test solution of MgSO<sub>4</sub>  
2000 mg/l, P=0,7  
MPa, T=25 °C, pH=7,5,  
Recovery -15%

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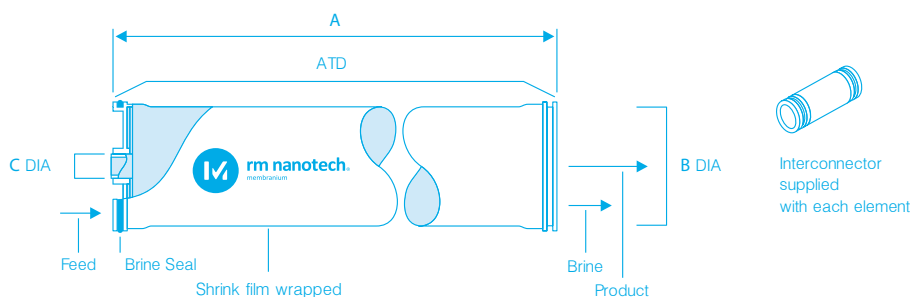
Flow of each single  
element in a batch may  
vary for +/-20%

## Operating conditions

Recommended operation pressure, MPa	0,6-2,0
Maximum operation pressure, MPa, tape overwrap	2,1
Maximum pressure drop, MPa	0,07
Operation temperature, °C <sup>1)</sup>	4-45
pH at continuous operation at T<35°C	2-11
pH at continuous operation at T<45°C	3-10,5
Chemical cleaning, temperature, °C	T<45 T<35 T<25
CIP pH (short time operation)	2-11 1-11.5 1-12
Acceptable Hydrogen peroxide concentration during continuous operation, mg/l	40
during disinfection (not longer than 30 min), mg/l	1000
Acceptable free Chlorine concentration during continuous operation, mg/l	1
during disinfection (not longer than 30 min), mg/l	5
Maximum feed flow, m <sup>3</sup> /hr	17
Concentrate/permeate ratio on each element, min	5:1
Turbidity, NTU max	1

1)

During continuous work  
with pH over 10 the  
temperature must not  
exceed 35°C



Model	A mm	B mm	B' (ATD) mm	C mm	Weight kg
8040-F(2,3)	1016	203	200	28,6	14
8040-F-DRY(2,3)	1016	203	200	28,6	13,2