membranium
RM Nanotech

nanoRO

Reverse osmosis membrane elements for sea water desalination
KM Series

Product Description

Membrane material	Composite polyamide
Membrane type	ORM45K
Design	Spiral wound

Specification

Model	Flow*		Rejection	Area		Spacer	
	m3/hr	GPD	normal**/ minimal***	m2	ft2	mm	mil
KM 8040-C	1,66	10500	99,75/99,55	39	420	0,71	28
KM 8040-C2	1,50	9500	99,8/99,6	37	400	0,79	31
KM 8040-C3	1,42	9000	99,8/99,6	35	375	0,86	34

*
Test conditions: test solution of NaCl 32 g/l, P=5,5 MPa, T=25 °C, pH=7,5. Recovery -10%

*
Flow of each single element in a batch may vary for +/-15%

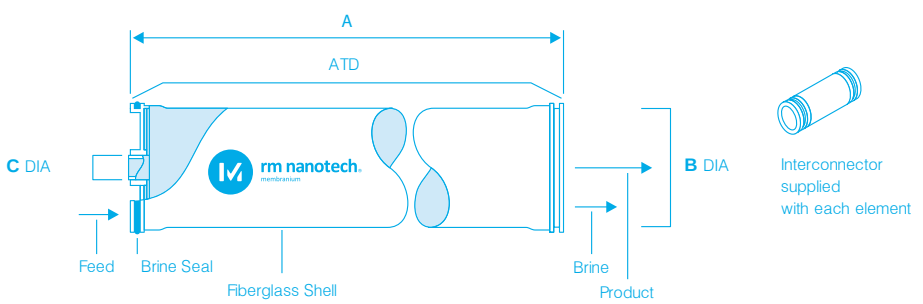
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Nominal rejection is reached after 48 hours of continuous operation on test solution

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Minimal rejection of a new element after 20 minutes' test on test solution.

Operating conditions

Recommended operation pressure, MPa	4,5-6,5
Maximum operation pressure, MPa	7
Maximum pressure drop, MPa	0,07
Operation temperature, °C [1)]	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
Free chlorine content, mg/l max	0,1
Maximum feed flow, m3/hr	17
Concentrate/permeate ratio on each element, min	10:1
SDI (15 minutes test), max	5
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
KM 8040-C (2,3)	1016	203	200	28,6	15,5