membranium®
RM Nanotech

nanoRO

Reverse osmosis membrane elements for brackish water desalination
KC Series

Product Description

Membrane material	Composite polyamide
Membrane type	ORM31K
Design	Spiral wound

Specification

Model	Flow*		Rejection	Area		Spacer	
	m3/hr	GPD	normal**/ minimal***	m2	ft2	mm	mil
KC 8040-C	1.8	11 500	99,7/99,4	39	420	0,71	28
KC 8040-C2	1.7	11 000	99,7/99,4	37	400	0,79	31
KC 8040-C3	1.6	10 300	99,7/99,4	35	375	0,86	34

* *Test conditions: test solution of NaCl 1500 mg/l, P=1,55 MPa, T=25 °C, pH=7,5. Recovery -15%*

* *Flow of each single element in a batch may vary for +25% / -15%*

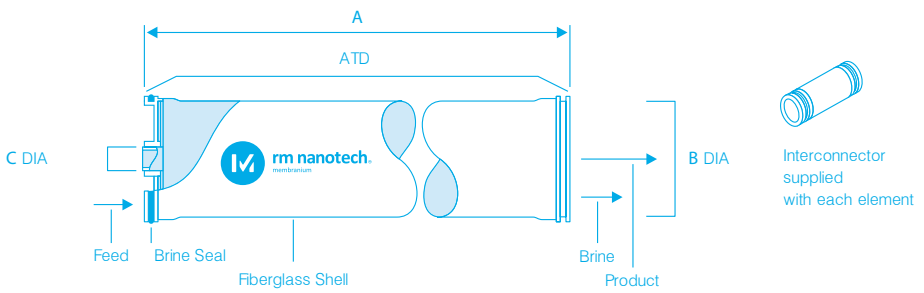
** *Nominal rejection is reached after 100 hours of continuous operation on test solution*

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

Operating conditions

Recommended operation pressure, MPa	1,2-2,0
Maximum operation pressure, MPa	4,1
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	5:1
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
KC 8040-C (2,3)	1016	203	200	28.6	15.5