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	
	l/hr	GPD	normal**/ minimal***	m2	ft2	mm	mil
KC 4040-C	390	2500	99,7/99,4	8.0	86	0,71	28

* *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%*

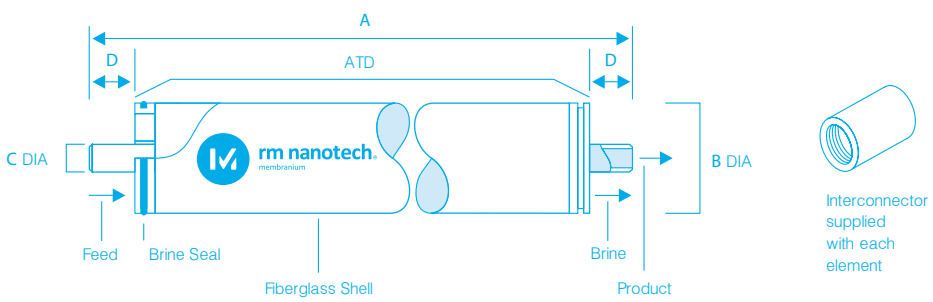
** *Nominal rejection is reached after 100 hours of continuous operation on test solution.*

*** *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	0,1
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	3,6
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	D mm	Weight kg
KC 4040-C	1016	101,6	100,3	19,1	26,7	4,5