

Extra low pressure reverse osmosis
membrane elements
for brackish water desalination
KCH Series

Product Description

Membrane material	Composite polyamide
Membrane type	ORM33K
Design	Spiral wound
Features	Fiberglass shell (-C) or shrink film-wrapped (-F)

*

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

*

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

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

1)

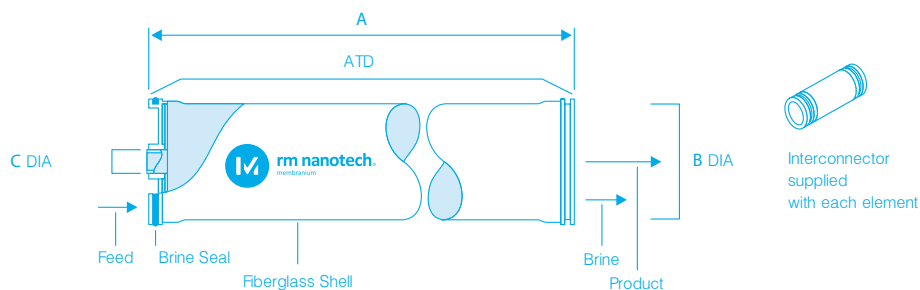
During continuous
work with pH over 10
the temperature must
not exceed 35°C

Specification

Model	Flow*		Rejection normal**/ minimal***	Area		Spacer	
	m3/hr	GPD		m2	ft2	mm	mil
KCH 8040-C	1,95	12 400	99,1/98,3	41	440	0,66	26
KCH 8040-C3	1,6	10 500	99,1/98,3	35	375	0,86	34
KCH 8040-C-DRY	1,95	12 400	99,1/98,0	41	440	0,66	26
KCH 8040-C3-DRY	1,6	10 500	99,1/98,0	35	375	0,86	34
KCH 8040-F	1,95	12 400	99,1/98,3	41	440	0,66	26
KCH 8040-F3	1,6	10 500	99,1/98,3	35	375	0,86	34
KCH 8040-F-DRY	1,95	12 400	99,1/98,0	41	440	0,66	26
KCH 8040-F3-DRY	1,6	10 500	99,1/98,0	35	375	0,86	34

Operating conditions

Recommended operation pressure, MPa	0,6-0,9
Maximum operation pressure, MPa	4,1/2,1
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



Model	A mm	B mm	B' (ATD) mm	C mm	Weight kg
KCH 8040-C (3)	1016	203	200	28,6	15,5
KCH 8040-C3-DRY	1016	203	200	28,6	14,7
KCH 8040-F (3)	1016	203	200	28,6	14
KCH 8040-F3-DRY	1016	203	200	28,6	13,2