

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)

Specification

Test conditions:
test solution of NaCl
500 mg/l, P=0.7 MPa,
T=25°C, pH=7,5.
Recovery -15%t

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

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

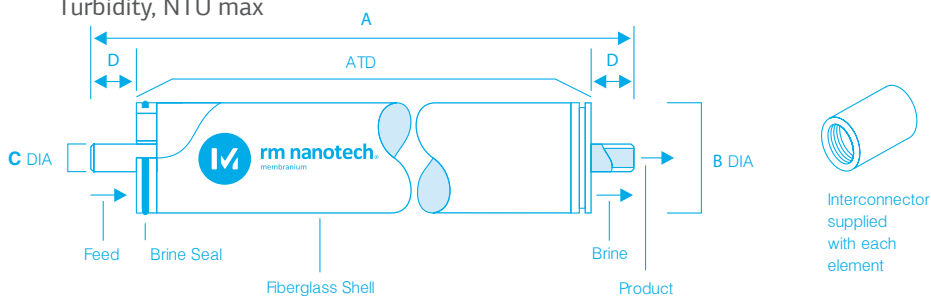
Minimal rejection
of a new element
after 20 minutes' test
on test solution

1)

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

Operating conditions

Recommended operation pressure, MPa	0,6-0,9
Maximum operation pressure, MPa	
Glass fiber/tape overwrap	4,1/2,1
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, m ³ /hr	3,6
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	D mm	Weight kg
KCH 4040-C	1016	101,6	100,3	19,1	26,7	4,5
KCH 4040-C-DRY	1016	101,6	100,3	19,1	26,7	4
KCH 4040-F	1016	101,6	100,3	19,1	26,7	3,6
KCH 4040-F-DRY	1016	101,6	100,3	19,1	26,7	3,1