

SEASOFT™ SERIES

Nanofiltration

Seawater Softening

The Seasoft™ series is a new family of nanofiltration elements specifically designed for seawater pretreatment. Seasoft elements feature a 3-layer, extremely scaling-resistant membrane as well as special construction design for short residence time to prevent scale formation.

Seasoft HR elements are distinctly designed for applications requiring high hardness and sulfate rejection as well as 20-30% sodium chloride rejection.

Seasoft HF elements are distinctly designed for applications requiring high hardness and sulfate rejection as well as high flux at low pressure.

Seasoft elements feature a fiberglass outer wrap.

ELEMENT SPECIFICATIONS

MODEL	FLOW GPD (m³/d)	REJECTION AVE.	ACTIVE AREA FT² (m²)
SEASOFT HR 8040	9,100 (34.4)	98.0%	400 (37.2)
SEASOFT HF 8040	11,700 (44.3)	96.0%	400 (37.2)

Specification is based on a 2,000 mg/L MgSO₄ solution at 100 psi (690 kPa) operating pressure, 77°F (25°C), pH 7.5 and 15% recovery. Individual flux may vary +25%/-15%. Average salt rejection after a minimum of 24 hours of continuous operation.

OPERATING AND DESIGN PARAMETERS

SEASOFT™

TYPICAL OPERATING PRESSURE	TYPICAL OPERATING PROCESS FLUX	MAXIMUM PRESSURE	MAXIMUM TEMPERATURE	RECOMMENDED pH	CHLORINE TOLERANCE
70-400 psig (483-2,758 kPa)	10-15 GFD (15-25 LMH)	600 psig (4,137 kPa)	122°F (50°C)	Operating pH Range: 2.0-11.0 Cleaning pH Range: 1.0-11.5	1,000 ppm-hrs., Dechlorination recommended

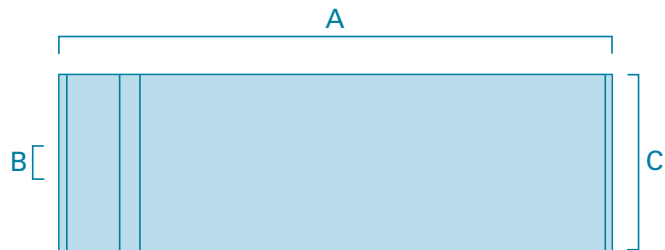


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MAXIMUM PRESSURE DROP	ELEMENTS PER PRESSURE VESSEL					
	1	2	3	4	5	6
ΔP - psig (kPa)	10 (69)	20 (138)	30 (207)	38 (262)	45 (310)	50 (345)

ELEMENT DIMENSIONS AND WEIGHT

MODEL NUMBER LEGEND



MODEL	DIMENSIONS INCHES(MM)			DRY BOXED
	A	B	C*	WEIGHT LBS (KG)
SEASOFT HR 8040	40.00 (1016)	1.125 (29)	7.88 (200)	32 (14.5)
SEASOFT HF 8040	40.00 (1016)	1.125 (29)	7.88 (200)	32 (14.5)

* The element diameter (dimension C) is designed for optimum performance in GE pressure vessels. Other pressure vessel dimension and tolerance may result in excessive bypass and loss of capacity. Length includes ATDs. Elements are shipped dry.

