

Dash Length	L IN(MM)	F IN(MM)	S IN(MM)	Approx Weight LB(KG)**	
-1	63	58.13	30X1	53	
	(1600)	(1477)	(762)	(24)	
-2	103	98.13	70X1	66	
-	(2616)	(2493)	(1778)	(30)	
2	143	138.13	110X1	80	
-3	(3632)	(3509)	(2794)	(36)	
-4	183	178.13	75X2	94	
-4	(4648)	(4525)	(1905)	(42)	
-5	223	218.13	95X2	107	
-0	(5664)	(5541)	(2413)	(49)	
-6	263	258.13	115X2	121	
-0	(6680)	(6557)	(2921)	(55)	
-7	303	298.13	135X2	135	
-7	(7696)	(7573)	(3429)	(61)	
-8	343	338.13	155X2	148	
-0	(8712)	(8589)	(3937)	(67)	
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BY:	КК	DRAWING DESCRIPTION:	DRAWING N0.: 99112		REV.:		
	10APR15	MODEL - 80E45 MEMBRANE HOUSING 9911		2	AB		
BY:	KPS	CUSTOMER NAME:		VESSEL MODEL:			
	10APR15	-		80E45			
BY:	MKS	PROJECT NAME: T			TOTAL	TOTAL QTY:	
	10APR15	-				-	
	6333	CUSTOMER P.O.#:	SIZE:	SCALE:	PAGE	NO.:	
E:	16JAN23	-	A3	NONE	01 C	F 02	

REV. DATE

RATING:

DESIGN PRESSURE	450 DSI
DESIGN FRESSURE	
	(3.10 MPa)
MAX. OPERATING TEMP	120°F
	(49°C)
MIN. OPERATING TEMP	20°F
	(-7°C)
FACTORY TEST PRESSURE	CE /ASME
67	5 PSI / 495 PSI
(4.65MF	Pa) / (3.41 MPa)
BURST PRESSURE	2700 PSI
	(18.62 MPa)

INTENDED USE:

The CodeLine Model 80E45 Fiberglass RO Pressure Vessel is designed for continuous, longterm use as housing for reverse osmosis membrane elements to desalt typical brackish waters at pressures up to 450 psi. Any make of eight-inch nominal diameter spiral-wound element is easily accommodated; the appropriate interfacing hardware for the element specified is furnished with the vessel

The CodeLine Model 80E45 must be installed operated and maintained in accordance with the listed precautions and good industrial practice to assure safe operation over a long service life.

The CodeLine Model 80E45 is designed in accordance with the engineering standards of the Boiler and Pressure Vessel Code of the American Society of Mechanical Engineers (ASME Code) Section X Edition 2021. F/C port, Bearing plate and Quick release spiral ring are designed as per ASME Section VIII Division I Edition 2021.

At small additional cost, vessels can be inspected during construction by an ASME Authorized inspector and ASME Code stamped.

The high performance reinforced plastic shell must be allowed to expand under pressure; undue restraint at support points or piping connections can cause leaks to develop in the shell. The end closure, incorporating close fitting, interlocking metal components, must be kept dry and free of corrosion: deterioration can lead to catastrophic mechanical failure of the head.

The end closures, incorporating close-fitting, interlocking metal components, must be kept dry and free from corrosion: deterioration can lead to catastrophic mechanical failure of the heads.

Pentair will assist the purchaser in determining the suitability of this standard vessel for their specific operating conditions. The final determination however, including evaluation of the standard material of construction for compatibility with the specific corrosive environment, shall be the responsibility of the purchaser.

Specifications are subject to change without notice.

PRECAUTIONS:

- DO...read, understand and follow all instructions; Using the chart below, please check the failure to take every precaution will void warranty and may result in vessel failure
- "S" using complaint vessel supports furnished; processing. tighten hold down straps just snug DO...provide overpressure protection for vessel set at not listed below, please consult factory
- not more than 105% of design pressure for pricing and availability. DO...inspect end closures regularly; replace
- components that have deteriorated and correct causes of corrosion
- DO NOT... make rigid piping connections to ports or clamp vessel in any way that resists growth of fiberglass shell under pressure; $\Delta DIA = 0.02$ in. (0.5mm) and $\Delta L = 0.2$ in. (5mm) for a length code -8 vessel
- DO NOT... hang piping manifolds from ports or use vessel in any way to support other components; branch connection piping may be simply supported between the header and port; maximum weight of branch piping; feed/concentrate - 16 lbs (7 kg); permeate -8 lbs (4 kg)
- DO NOT... operate vessel at pressures and temperatures in excess of its rating DO NOT... operate vessel without permeate ports
- internally connected with a complete set of elements and interconnecting hardware
- DO NOT... operate vessel with permeate pressure in excess of 125 psi at 120°F (0.86 MPa at 49°C) DO NOT... overtighten the connection to the
- permeate port (hand-tighten plus one-quarter turn, check for leaks) DO NOT... tolerate leaks or allow end closures to be
- routinely wetted in any way DO NOT... pressurize vessel until double-checking to
- verify that the retaining ring is completely inside the groove
- DO NOT... work on any component until first verifying that pressure is relieved from vessel DO NOT... operate outside the pH range 3-11

ORDERING:

features you require and fax them with your purchase order to our customer DO., mount the shell on horizontal members at span service department for expedited For optional materials and/or features Please note that we require your membrane brand and model number when ordering. If this information is not initially available, you may provide it at a later date by checking the appropriate box below

VESSEL LENGTH CODE – please check one

MODEL 80E45 -1 -2 -3 -4 -5 -6 -7 -8

MEMBRANE BRAND AND MODEL - please check one and fill in information

□ Please supply adapters for the following membrane brand and specific model Brand Model

CERTIFICATION REOUIRED

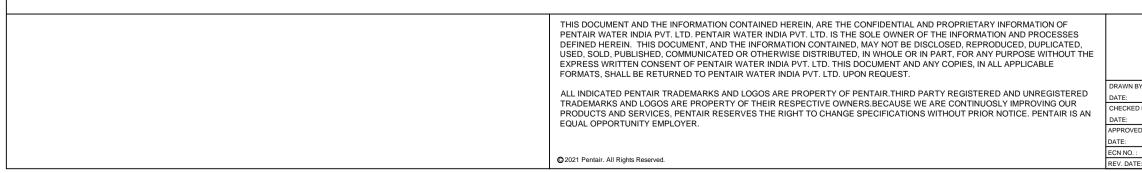
□ Hydro testing at 1.5 times the design pressure. CE Marked.

- □ Hydro testing at 1.1 times the design pressure.
 - ASME Stamped and National Board Registered
 - □ In compliance with the ASME Sec X but not Code Stamped.

EXTERIOR FINISH – please check one

- □ White high-gloss polyurethane coating.
- □ Optional colors are available for 50 or more vessels per order. Call factory for pricing details.
- MATERIAL OPTIONS
- □ All materials as per drawing on the first page.
- Customer specified materials:
- (Please consult the factory, as these options will affect pricing and vessel lead-time.)

For complete information on proper use of this vessel please refer to the 80E series USER'S GUIDE Bulletin 523004



		CODELINE VERNA, GOA				
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