RATING:

DESIGN PRESSURE ........... 450 PSI at 120°F
(3.1 MPa @ 49°C)
MIN. OPERATING TEMP. .......... 20°F
(-7°C)
FACTORY TEST PRESSURE ... CE / ASME
675 / 495 PSI
(4.65Mpa) / (3.41 MPa)
BURST PRESSURE............... 2700 PSI
(18.6 MPa)

INTENDED USE:
The CodeLine Model 80E45 Fiberglass RO Pressure Vessel is designed for continuous, long-term 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 and maintained in accordance with the listed precautions and good industrial practice to assure safe operation over a long service life.

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 Water 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; failure to take every precaution will void warranty and may result in vessel failure
DO....mount the shell on horizontal members at span ~5" using compliant vessel supports furnished; tighten hold down straps just snug
DO....provide overpressure protection for vessel set at not more than 105% of design pressure
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; ∆DIA = 0.02 in. (0.5mm) and ∆L = 0.2 in. (5mm) for a length code -6 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 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 (0.9 MPa @ 49°C)
DO NOT... overtighten the connection to the permeate port (hand-tighten plus one-quarter turn, check for leaks)
DO NOT... work on any component until first verifying that pressure is relieved from vessel
DO NOT... pressurize vessel until double-checking to verify that the retaining ring is completely inside the groove
DO NOT... tolerate leaks or allow end closures to be routinely wetted in any way

ORDERING:

Using the chart below, please check the features you require and fax them with your purchase order to our customer service department for expedited processing.

For optional materials and/or features not listed below, please consult factory for pricing and availability.

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 REQUIRED

☐  ASME Stamped and National Board Registered (please consult factory for pricing)
☐  CE Marked
☐  Standard, Certified by Pentair water.

EXTERIOR FINISH – please check one

☐  Standard – white high-gloss polyurethane coating.
☐  Option – optional colors are available for 50 or more vessels per order.
    Call factory for pricing details.

MATERIAL OPTIONS

☐  Standard – All materials as per drawing 99112 on the first page.
☐  Customer specified material s – (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.