RATING:

DESIGN PRESSURE ..................... 1200 PSIG at 150°F
(8.27 MPa at 66°C)
MIN. OPERATING TEMP ................... 20°F
(-7°C)

FACTORY TEST PRESSURE ............ CE / ASME
1800 PSIG / 1320 PSIG
(12.41 MPa) (9.10 MPa)

QUALIFICATION PRESSURE ............. 7200 PSI
(49.64 MPa)

INTENDED USE:
The CodeLine 80H120 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 1200 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 80H120 is designed in accordance with the engineering standards of the Boiler and Pressure Vessel Code of the American Society of Mechanical Engineers (ASME) Code. At small additional cost vessels can be inspected during construction by an ASME Authorized Inspector and ASME Code stamped.

The CodeLine 80H120 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 high performance Filament wound FRP shell must be allowed to expand under pressure; undue restraint at support points or piping connections can cause leaks to develop in the shell. This side-ported vessel requires special precautions in mounting and connection to piping so that the vessel will not be subjected to excessive stress due to bending moments acting at the side openings in the fiberglass 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.

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. Alternate materials with enhanced corrosion resistance are available on special order.

Specifications are subject to change without notice.

ORDERING:

Using the chart below, please check the features you require

vesSEL LENGTH CODE – please check one

MODEL 80H120 □ -1 □ -2 □ -3 □ -4 □ -5 □ -6 □ -7 □ -8

MEMBRANE BRAND AND MODEL

□ Please supply adapters for the following membrane brand and specific model
Brand________________ Model_______________________

CERTIFICATION REQUIRED

□ ASME Stamped and National Board Registered.
□ CE Marked Standard.
□ Certified by Pentair water.
□ In compliance with the ASME Sec X but not Code Stamped.
□ Hydro testing at 1.1 times the design pressure
□ Hydro testing at 1.5 times the design pressure

PERMEATE PORT SELECTION

Serial Number End

<table>
<thead>
<tr>
<th>Size of the Permeate Port</th>
<th>1”</th>
<th>1.25”</th>
<th>1.5”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of Connection</td>
<td>□ FNPT □ MNPT □ BSPTM □ BSPTF □ IPS GROOVED</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Material of Construction □ PET/Noryl □ SS316L □ Zeron 100

Non Serial Number End

<table>
<thead>
<tr>
<th>Size of the Permeate Port</th>
<th>1”</th>
<th>1.25”</th>
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</tbody>
</table>

Material of Construction □ PET/Noryl □ SS316L □ Zeron 100

Note:

- Standard offering is 1.0” FNPT in PET/Noryl.
- 1.25” & 1.5” BSPTF, 1.25” & 1.5” FNPT connections cannot be offered

STRAIN ASSEMBLY

<table>
<thead>
<tr>
<th>Standard SS304</th>
<th>Optional SS316</th>
<th>Optional SS316</th>
</tr>
</thead>
</table>

FEED/CONCENTRATE PORT SELECTION

Material of Construction □ STD Super Duplex SS (CD3MWCuN) □ Optional - CESM

Configuration □ Standard – CD3MWCuN 1G5G □ Optional – Multi port: (Refer SPEC.SHEET/PM/1.5”-3” for Multi ports selection).

Ports not available in 90° configurations.

Serial number end

| Opposite end |
|---------------|---------------|---------------|

BEARING PLATE MATERIAL

□ Standard – 6061 T6 Aluminium □ Optional – Stainless Steel 316L

Note: Refer page-3 for optional Part numbers.