RATING:

DESIGN PRESSURE: 300 PSIG (2.07 MPa)
PVC / PET
MAX. OPERATING TEMP.: 140°F/180°F (60°C/82°C)
MIN. OPERATING TEMP.: 20°F (-7°C)
FACTORY TEST PRESSURE: CE/ASME 450PSIG/330 PSIG (3.10 Mpa/2.27 MPa)

QUALIFICATION PRESSURE: 1800 PSI (12.41 MPa)

INTENDED USE:
The AquaLine 80CF30 Fiberglass Pressure Vessel is designed for continuous, long term use as housing for AquaLine range of micro filtration elements.

The AquaLine 80CF30 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. Vessels shall be inspected during construction by an ASME Authorized Inspector and ASME Code stamped.

The AquaLine 80CF30 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-port 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 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.

PRECAUTIONS:

DO... read, understand and follow all instructions; failure to take every precaution will void warrant and may result in vessel failure

DO... mount the shell on horizontal members at span "S" using compliant vessel supports furnished; Shim saddles if required. Tighten down straps just snug.

DO... align and center side ports with the manifold header. Correct, causes of misalignment in a row of vessels connected to the same header

DO... use flexible type grooved-end pipe couplings, IPS grooved coupling or equal, at side ports; allow full, 0.125 inch gap between port and piping, and position piping to maximize flexibility of connection.

DO... provide flexibility in, and support for piping manifolds so that vessel can grow in length under pressure without undue restraint; provide additional flexible joints in large pipes leading to manifold header.

DO... Lubricate seals sparingly, using nonpetroleum Based lubricants, i.e. Parker Super O-lube®, Glycerin or suitable silicone based lubricants.

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... work on any component until first verifying that pressure is relieved from vessel

DO NOT... make rigid piping connections to ports or clamp vessel in any way that resists growth of fiberglass shell under pressure;

DO NOT... pressurize vessel until double-checking to verify that the Locking Ring is in place and fully seated.

DO NOT... operate vessel at pressure and temperature in excess of its rating.

DO NOT... tolerate leaks or allow end closures to be routinely wetted in any way

DO NOT... operate outside the pH range of 3-11.

ORDERING:

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

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

VESSEL LENGTH CODE

MODEL: AquaLine 80CF30

CERTIFICATION REQUIRED

□ Certified by Pentair with Compliance to ASME Section X Hydro testing at 1.1 times.
□ ASME code stamped and National Board Registered.
□ CE Marking.

HEAD ASSEMBLY MATERIAL SELECTION

□ Standard: For 140°F application, Engineering Thermoplastic components in PVC as per drawing 17038 on First page.
□ Option: For 180°F application, Engineering Thermoplastic components in PET as given below. (Please consult factory as these options will affect pricing and vessel lead time)

HEAD COMPONENTS FOR 180°F APPLICATION

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<tr>
<th>DWG</th>
<th>REF</th>
<th>QTY</th>
<th>DESCRIPTION</th>
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<td>Product Port Retainer Ring</td>
<td>304 Stainless Steel.</td>
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<td>17405</td>
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<td>18</td>
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<td>17407</td>
<td>Handle Assembly</td>
<td>304 Stainless Steel.</td>
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<tr>
<td>19</td>
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<td>Retainer Ring</td>
<td>316L Stainless Steel.</td>
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<td>Plug</td>
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</table>

PORT SIZE CODE

A 1” FNPT END
G 3” GROOVED END

Please fill out quantity for each configuration

□ 1A 4G – Standard
□ 1A 2G – (Optional)
□ 1A 2G 4G – (Optional)

For complete information on proper use of the vessel

Please refer to the AquaLine User Guide No. 17456.