



RATING:

DESIGN PRESSURE/MAWP	300 PSIG
	(2.07 MPa)
MAX. ALLOWABLE TEMP	PVC / PET
	140°F/180°F
	(60°C/82°C)
MIN. ALLOWABLE TEMP	
	(-7°C)
FACTORY TEST PRESSURE	330 PSIG
	(2.28 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) as per Section X Edition 2023 and all metallic parts are designed as per ASME Section VIII Division I Edition 2023.

At small additional cost vessels can 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-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 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 warranty 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 hold down straps
- 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 non-petroleum based lubricants, i.e. Glycerin or suitable
- 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.
- DO NOT...operate outside the pH range 2-12 for cleaning.
- DO NOT...exceed 43.5 hours in a year for cleaning with above mentioned pH range.

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 80CF30-60

CERTIFICATION REQUIRED

- ☐ Hydro testing at 1.1 times the design pressure.
- ☐ In compliance with the ASME Sec X but not Code Stamped.
- □ ASME Stamped and National Board Registered.
- ☐ CE Marked MODULE-D1, CATEGORY-2.

HEAD ASSEMBLY MATERIAL SELECTION

- □ Standard: For 140°F application, Engineering Thermoplastic components in PVC as per drawing 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							
DWG REF	QTY	PART NUMBER	DESCRIPTION	MATERIAL			
6	1	17433	1/4" FNPT Air Vent Port	SA-995 CD3MWCuN (J93380)			
7	2	196208	1/4" Air Vent Port Seal	O - Ring - EPDM			
8	1	194944	Bearing Plate Assembly Handle End				
8.1*	1	17179	Bearing Plate Handle End	SB-221 A96061-T6			
8.2	1	17455	Danger Label Handle End	-			
9	1	117007	Sealing Plate Handle end	Engineering Thermoplastic - Noryl.			
10	1	194945	Bearing Plate Assembly Product end				
10.1*	1	17416	Bearing Plate Product end	SB-221 A96061-T6			
10.2	1	17454	Danger Label Product End	-			
11	1	17453	Sealing Plate Product end	Engineering Thermoplastic - PET.			
12	1	17441	3" Product Port	SA-995 CD3MWCuN (J93380)			
13.1	1	17444	Product Port Adapter	SA-995 CD3MWCuN (J93380)			
13.2	1	17435	Product port holding pin	Engineering Thermoplastic			
14	2	17164	Seal for Product Port Adapter	O - Ring-EPDM			
15	1	17127	Product Port Retainer Ring	SA-479 316			
16	2	196223	Head Seal	O - Ring - EPDM			
17	1	17128	Product Port Seal	O - Ring - EPDM			
18	1	17104	Handle Assembly	SA-479 316			
19	1	45247	Plug Retainer Ring	Stainless Steel			
20	1	17407	Plug	Engineering Thermoplastic - PET.			
21	1	196215	Plug seal	O - Ring - EPDM			

FEED PORT CONFIGURATION

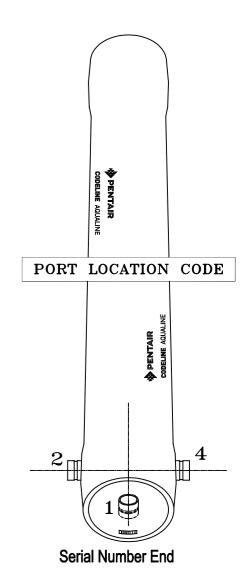
Please fill out quantity for each configuration

☐ 1A 4G – Standard

 \square 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.



THIS DOCUMENT AND THE INFORMATION CONTAINED HEREIN, ARE THE CONFIDENTIAL AND PROPRIETARY INFORMATION OF PENTAIR WATER INDIA PVT. LTD. PENTAIR WATER INDIA PVT. LTD. IS THE SOLE OWNER OF THE INFORMATION AND PROCESSES DEFINED HEREIN. THIS DOCUMENT AND THE INFORMATION CONTAINED, MAY NOT BE DISCLOSED, REPRODUCED, DUPLICATED. USED, SOLD, PUBLISHED, COMMUNICATED OR OTHERWISE DISTRIBUTED, IN WHOLE OR IN PART, FOR ANY PURPOSE WITHOUT THE EXPRESS WRITTEN CONSENT OF PENTAIR WATER INDIA PVT. LTD. THIS DOCUMENT AND ANY COPIES, IN ALL APPLICABLE FORMATS, SHALL BE RETURNED TO PENTAIR WATER INDIA PVT. LTD. UPON REQUEST.

ALL INDICATED PENTAIR TRADEMARKS AND LOGOS ARE PROPERTY OF PENTAIR.THIRD PARTY REGISTERED AND UNREGISTERED TRADEMARKS AND LOGOS ARE PROPERTY OF THEIR RESPECTIVE OWNERS.BECAUSE WE ARE CONTINUOSLY IMPROVING OUR PRODUCTS AND SERVICES. PENTAIR RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT PRIOR NOTICE. PENTAIR IS AN FOUAL OPPORTUNITY EMPLOYER

© 2021 Pentair. All Rights Reserved

		PENTAIR CODELINE AQUALI	NE	VERNA, GO INDIA	DA	
DRAWN BY:	AND	DRAWING DESCRIPTION:	DRAWING NO.:		REV.	
DATE:	07MAR11	MODEL: 80CF30 SINGLE CARTRIDGE	17038	В	U	
CHECKED BY:	RD	CUSTOMER NAME:	VESSEL MODEL:			
DATE:	07MAR11	- 8			80CF30-60 (CODED)	
APPROVED BY:	RM	PROJECT NAME:		TOTAL	QTY:	
DATE:	07MAR11	-			-	
ECN NO.:	6799	CUSTOMER P.O.#:	SIZE:	SCALE:	PAGE	NO.:
REV. DATE:	28MAY24	-	A3	NONE	02 O	F 02



* ASME PARTS

Head Office: 54/18 Bui Quang La, An Hoi Tay Ward, HCMC, Vietnam Branch: 77 DHT10B. Dong Hung Thuan Ward, HCMC, Vietnam Phone: (028) 6258 5368 - (028) 6291 9568

ATS WATER Email: info@atswatertechnology.com TECHNOLOGY Website: www.atswatertechnology.com