2 Pumps XL Sea Chest Technical Data Sheet

Part Number: 31009
Product Type: Marine Sea Chest Assembly
Application: Raw water intake and distribution system for recreational marine vessel

Features	Manufacturing Method
• Marine-grade 316 stainless steel construction. • Corrosion-resistant marine powder coating. • Clear acrylic inspection lid. • Dual pump redundancy for continuous operation. • Integrated breather / pressure relief valve. • Modular outlet configuration. • Heavy-duty welded assembly. • Long service life in marine environments. • ABYC compliant design. • Hardware ASMEB18.2.1 Marine grade Compliant	✓ Fabricated and TIG welded construction ✓ Machined threaded ports ✓ Marine-grade powder coated finish ✓ USA made and assembled

Technical information

Materials		Dimensions	
Body	316 Stainless Steel (Marine Grade) Marine-grade powder coated exterior and interior	Length:	19.21in (488mm)
Lid	Clear Acrylic/ Neoprene Gasket	Width:	14.29in (363mm)
Valves	Glass-Filled Nylon (Marine Grade)	Height:	13.26in (337mm)
Hardware	Hex 5/16-18” UNC Stainless Steel 316	Weight:	42.00lbs. (19.05kg) *weight may vary with options*
		Usable Volume:	5.32gal (20.15L) Approx.
Connections	• Inlets: 2 × 2" NPSF threaded ports • Primary outlets: 2 × 1.5" NPS ball valves (Gemlux) • Optional outlets: 3/4" NPS ball valves (Gemlux) • Breather / Overflow: 1 × 3/4" NPS valve (Gemlux) • Pumps Voltage: 12VDC/24VDC **		
Flow Capacity	• Individual capacity: 3700 GPH (14000 LPH) • Total system capacity: 7400 GPH (28000 LPH) • Net Usable Volume: 5.32 gal (20.15L) Approx.		

***For additional technical specifications, electrical characteristics, and performance data, refer to Rule Pumps documentation for models **16A** and **14A**.*
Pumps are third-party components and are not manufactured by Best Marine Products.

Installation Guidelines

1. **Recommended Mounting Clearance**

To ensure proper installation, serviceability, and compliance with good marine engineering practices and **American Boat and Yacht Council (ABYC)** guidelines, the following minimum clearances are recommended:

Area	Minimum	Recommended
Top Clearance (Lid Removal & Inspection)	3.0 in (102 mm)	5.0 in (152 mm)
Side Clearance (Connections & Structural Access)	2.0 in (51 mm) each side	3.0 in (76 mm) each side
Bottom Clearance (Drainage & Mounting Surface)	0.25 in (6 mm)	0.5 in (12 mm)
Front / Valve Access Clearance	4.0 in (152 mm)	6.0 in (203 mm)
Breather Valve Vertical Clearance	3.0 in (76 mm) above breather fitting	3.5 in (89mm)

2. **Recommended Mounting Surface Requirements**

- Flat, rigid structural surface.
- Capable of supporting minimum **126 lbs. (57.15 kg)**.
- Use marine-grade mounting hardware (316 SS recommended).
- Install below vessel water line.
- Install accessible for inspection and maintenance in the bilge area.
- Install close to water pickups (within 2 feet of Sea Chest inlets max).

3. **Recommended Installation Envelope**

Length: **22.25 in (568 mm)**
Width: **18.30 in (465 mm)**
Height: **16.26 in (413 mm)**

4. **Compliance and Standards**

This Sea Chest Assembly is designed and manufactured in accordance with **American Boat and Yacht Council (ABYC)** standards, including:

- ✓ **ABYC H-27** – Seacocks, Thru-Hull Fittings, and Drain Plugs
- ✓ **ABYC H-23** – Bilge Pump Systems
- ✓ **ABYC E-2** – Cathodic Protection

Note: The sea chest must be bonded to the vessel's cathodic protection system in accordance with ABYC E-2. Proper bonding ensures corrosion protection and safe operation. Inspect sacrificial anodes regularly. Use a Minimum **16 AWG (1.5 mm^2)** marine-grade tinned copper conductor or per vessel bonding system specification.

These standards ensure proper seawater intake system integrity, safe bilge pump integration, and protection against galvanic corrosion in marine environments.