

# 3 Pumps XL Sea Chest Technical Data Sheet

**Part Number:** 31010

**Product Type:** Marine Sea Chest Assembly

**Application:** Raw water intake and distribution system for recreational marine vessel

| Features   | Manufacturing Method   |
|--|--|
| <ul style="list-style-type: none"> <li>• Marine-grade 316 stainless steel construction.</li> <li>• Corrosion-resistant marine powder coating.</li> <li>• Clear acrylic inspection lid.</li> <li>• Dual pump redundancy for continuous operation.</li> <li>• Integrated breather / pressure relief valve.</li> <li>• Modular outlet configuration.</li> <li>• Heavy-duty welded assembly.</li> <li>• Long service life in marine environments.</li> <li>• ABYC compliant design.</li> <li>• Hardware ASME B18.2.1 Marine grade Compliant</li> </ul> | <ul style="list-style-type: none"> <li>✓ Fabricated and TIG welded construction</li> <li>✓ Machined threaded ports</li> <li>✓ Marine-grade powder coated finish</li> <li>✓ USA made and assembled</li> </ul> |

## Technical information

| Materials            |  | Dimensions     |   |
|----------------------|--|----------------|---|
| Body                 | 316 Stainless Steel (Marine Grade)<br>Marine-grade powder coated exterior and interior   | Length:        | 24.70in (628mm)   |
| 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:        | 61.00lbs. (27.67kg) <i>weight may vary with options</i> |
|                      |  | Usable Volume: | 4.71gal (17.83L) Approx.                                |
| <b>Connections</b>   | <ul style="list-style-type: none"> <li>• Inlets: 2 × 2" NPSF threaded ports</li> <li>• Primary outlets: 3 × 1.5" NPS ball valves (Gemlux)</li> <li>• Optional outlets: 3/4" NPS ball valves (Gemlux)</li> <li>• Breather / Overflow: 1 × 3/4" NPS valve (Gemlux)</li> <li>• Pumps Voltage: 12VDC/24VDC **</li> </ul> |                |   |
| <b>Flow Capacity</b> | <ul style="list-style-type: none"> <li>• Individual capacity: 3700 GPH (14000 LPH)</li> <li>• Total system capacity: 7400 GPH (28000 LPH)</li> <li>• Net Usable Volume: 4.71gal (17.83L) Approx.</li> </ul>  |                |   |

\*\*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: **27.700 in (704 mm)**

Width: **18.290 in (465 mm)**

Height: **16.260 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<sup>2</sup>)** 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.*