



# DB1750

EXCEPTIONAL STATION-KEEPING



Deployed in over 40 countries, the DB1750 buoy brings together the benefits of the latest in materials, manufacturing processes and technology. Owners will have lower long-term maintenance expense with this rugged yet lightweight buoy, due to its exceptional station-keep and long life.

**A few benefits of the DB1750 include:**



**Long-term strength and security** - The float section is internally cross-braced with stainless steel rods that are connected to stainless steel bushings in mooring and lifting eyes.



**UV-stabilised polyethylene** - The rotationally-moulded seamless hull is 9.5 mm thick, able to withstand knocks and/or collisions.



**Stability** - A carefully calculated ballast of reinforced concrete holds station where you place it.



a **xylem** brand

# DB1750 EXCEPTIONAL STATION-KEEPING

## Additional Benefits:

**Rugged design** - A float section, battery section, and nav-aid section form an abrasion-resistant, shock absorbing buoy that can survive knocks from debris and even boat collisions. The float section has a moulded in slip resistant surface, providing an added safety precaution for on station maintenance.

**Safety** - The float section has a moulded-in, slip-resistant surface that makes it safer to do maintenance on station.

**Color-code your station** - Bifurcation buoys of red or green; Cardinal buoys of yellow and black; Fairway or Safe Water buoys of red and white. All are possible with this customizable buoy.

**Flexible Power**- Configured for 12V or 24V nominal, the power system for the lantern and optional equipment is housed in the battery section, which also forms part of the tower for the lantern.

**Navaid Section** - Has provision for four 10 peak watt solar modules or up to three 20 peak and one ten peak watt solar modules. This section also includes an internal high gain passive reflector (10m<sup>2</sup>) and lantern guard (if needed). Access to battery section and all equipment is through a hinged, tamper resistant, watertight service hatch.

Technical Details	
<b>Construction</b>	Rotationally moulded in medium density UV-stabilised virgin polyethylene, 9.5 mm thick
<b>Foam Filling</b>	16 kg/m <sup>3</sup> expanded polystyrene foam
<b>Air Weight</b>	1000 lb (454 kg) (including two 38 mm (1-1/2 in) shackles)
<b>Diameter</b>	5 ft 9 in (1750 mm)
<b>Focal Plane Height</b>	7 ft 6 in (2290 mm)
<b>Optional Extended Focal Plane</b>	9 ft 6 in (2900 mm)
<b>Draft</b>	2 ft 6 in (751 mm)
<b>Freeboard</b>	1 ft (305 mm)
<b>Submergence</b>	138 lb/in (24.7 kg/cm)
<b>Radar Reflector</b>	10 m <sup>2</sup> (X-band)
<b>Radar Range, nominal</b>	3 to 4 NM
<b>Visual Area with daymark panels (can shape)</b>	17.2 ft <sup>2</sup> (1.6 m <sup>2</sup> )
<b>Visual Area with daymark panels (nun shape)</b>	16.1 ft <sup>2</sup> (1.5 m <sup>2</sup> )

*Specifications subject to change.*

## Recommended Moorings:

Current less than 2 knots		
Water Depth (ft)	Chain Length (Shot)	Chain Size
35	45 ft (1/2)	1 1/8 in
35-50	90 ft (1)	1 in
50-80	135 ft (1 1/2)	1 in
80-120	180 ft (2)	3/4 in
120-160	225 ft (2 1/2)	5/8 in
160-200	315 ft (3 1/2)	1/2 in

Current 2-4 knots		
Water Depth (ft)	Chain Length (Shot)	Chain Size
35	90 ft (1)	1 1/8 in
35-50	90 ft (1)	1 in
50-80	135 ft (1 1/2)	1 in
80-120	225 ft (2 1/2)	3/4 in
120-160	450 ft (5)	5/8 in
160-200	450 ft (5)	1/2 in

Current 4-6 knots		
Water Depth (ft)	Chain Length (Shot)	Chain Size
35	90 ft (1)	1 1/8 in
35-50	135 ft (1 1/2)	1 in
50-80	180 ft (2)	1 in
80-120	270 ft (3)	3/4 in
120-160		
160-200		

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