

**Specifications:**

The Horizon BP 450 is designed for use on in and above ground swimming pools and spas. The user-operated unit requires no assistance from an attendant to operate the lifting device. Operation of the lift handset requires a constant pressure no greater than 2-lbf (8.9N) to operate the directional control buttons. There are two handset control points one located independent of the lift, the other on the lift's seat arm.

The lift is powered by a low voltage (24-VDC) rechargeable battery and is rated for a 450-pound (180kg) operating load capacity with a 1.5-safety factor.

Components of the lift include an armrest and adjustable footrest. The armrest provides stability to the user during lift movement and is structurally capable of supporting the user during transfer from a wheelchair onto the lift's seat. The adjustable footrest shall be provided with a 12" vinyl covering.

The lift is to be secured to a concrete deck with a single anchor point, allowing ease of installation and removal.

**Lift Superstructure**

The Horizon's superstructure and component parts are fabricated of 304 stainless steel, electro-polished followed by passivation ensuring maximum corrosion resistance. This process shall be performed in compliance with ASTM A967 guidelines.

The superstructure facilitates a minimum vertical travel of 55-inches (140 cm) and can be set back up to 33-inches (0.85m) from pool/spa edge. The rotational gear drive system allows for full continuous mast rotation. The vertical drive actuator bolted to the superstructure is driven by a permanent magnet motor and operates at a noise level of 67-db or less.

**Operating Controls and Power Source**

A four-channel radio frequency receiver/transmitter controls the operation of the lift. Two handsets are provided to allow operation from pool deck, water and seat. The handsets are operable by either left or right hand and are ergonomically designed for ease of use. The handsets are sealed to prevent water damage. Four control buttons provide directional control, i.e., rotational travel-left or right and vertical travel-up or down.

A 24-VDC rechargeable battery powers the lift's drive motors and radio frequency control receiver. A battery charger is provided; complete with a mounting bracket and electrical power cord, for remote installation.

### **Seat Assembly**

The seat assembly provided meets and/or exceeds the Type “A” Seat as covered by ADA seat standards. The seat measures 18-inches (45.72cm) high, 18-inches (45.72cm) wide and 18-inches (45.08cm) deep and features a double contour design for seating comfort. The seat is equipped with a seat belt assembly employing wide synthetic webbed belts, with a quick release, non-metallic, cam-lock buckle.

The lift’s seat shall be mounted so as the lift’s seat support arm is located to the right side of the seat, providing comfort and stability to the user.

### **Anchor**

The lift’s anchor body is 1.90-inch (4.8cm) I. D. by 6-inches (15.24cm) deep. An anchor cover with a removal key shall be supplied for use when the lift is not installed.

### **Swing-up Outer Armrest Assembly**

The swing-up outer armrest assembly is supplied with a 304 stainless steel mounting plate to be attached to the lift by mounting directly under the lift’s seat assembly

## **Optional Accessories:**

### **Transport Cart**

The optional four-wheel transport cart allows one individual to easily remove and transport the lift to storage when not in use.

### **Protective Safety Cover**

The optional polyethylene safety cover protects the lift from unauthorized use and from environmental elements. The cover includes a warning sign clearly visible from the pool/spa deck.

### **Extra Battery**

An extra battery is available; allowing one battery to be charging while the other is in use.

## **Compliance and Certification**

The lift complies with the requirements of the U. S. Architectural and Transportation Barriers Compliance Board, Architectural Barriers Act of 1968, Section 502 of the Rehabilitation Act of 1973, Section 504 of the Americans with Disabilities Act of 1990, the Accessibility Guidelines for Recreation Facilities of September 3, 2002, and ADA and ABA Guidelines for Buildings and Facilities 2004 – Chapter 10 Recreation Facilities, Section 1009 Swimming Pools, Wading Pools, Spas, Sub-paragraphs 1009.2 through 1009.2.9.

## **Warranty**

A two (2) year limited warranty is provided for the Swim-Lift® Horizon BP 450. The lift and its accessory items are manufactured by Spectrum Aquatics®.