



Product Specifications - Written

Product Name: PAL Portable Aquatic Lift

Part Number: 200-0000

General Notes:

The PAL Portable Aquatic Lift is a battery powered lift that complies with Americans with Disabilities Act Access Guidelines (ADAAG), and has a lifting capacity of 300 lbs (136.1 kg). Capable of easy movement to multiple pool locations using a patented counterbalance system (no deck anchors required). Product shall include battery, charger, battery console cover, waterproof control, footrest and seatbelt assembly.

Application:

Manufacturer to provide technical support and assistance to confirm pool lift satisfies pool geometry or if another PAL or SPLASH model is more appropriate. The lift is configured to facilitate ease in user transfer within clear deck space of 36 inches wide by 48 inches deep starting 12 inches from the from the back end of the seat (Ref. ADAAG).

Specifications:

Actuator: The PAL has a LINAK (approved for medical applications) screw/spline type actuator to provide a safe and stable stop at any point in the lifting cycle. Capable of reaching a stopping point that is a minimum of 16 inches and a maximum of 19 inches, measured from the deck to the top of the seat surface, when the seat is in the raised position (accessibility guidelines), but also providing additional stopping points at various heights to accommodate users of all ages and abilities. It is also capable of submerging the seat a minimum of 18 inches below the surface of the water.

Seat Assembly: The PAL has a seat width of 18.5 inches (ADAAG requires 16 inches minimum), and a back that extends 24 inches high (ADAAG requires 12 inches minimum).

Gear Motor: The PAL has a 24 volt gear motor to power side to side rotation to allow for ample clear deck space for transfer on both sides of the lift.

Metallic Parts: All metallic parts (stainless steel and aluminum) are to be passivated, pretreated, and powder coated using a 5-step process. The process is to be validated by samples undergoing a 4,000 hr Salt Fog Test (ASTM D1654), by a recognized independent laboratory, and achieve a rating of 10 (highest possible rating).

Manufacturer's Warranty:

Structural Components – 3 Years

Electronic Components – 2 Years (except battery)

Have the following optional equipment:

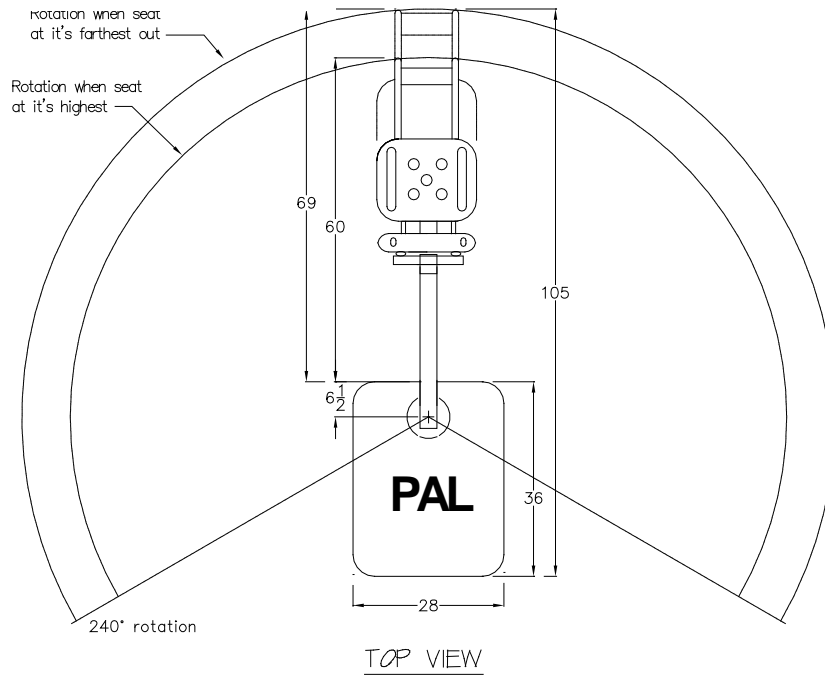
Part #	Description	Part #	Description
900-2000	Stability Vest	920-5000	Deck Cover
170-1000	Arm Rest Assembly		
500-1000	Spineboard Attachment		

Shipping weight: 1100 lbs.

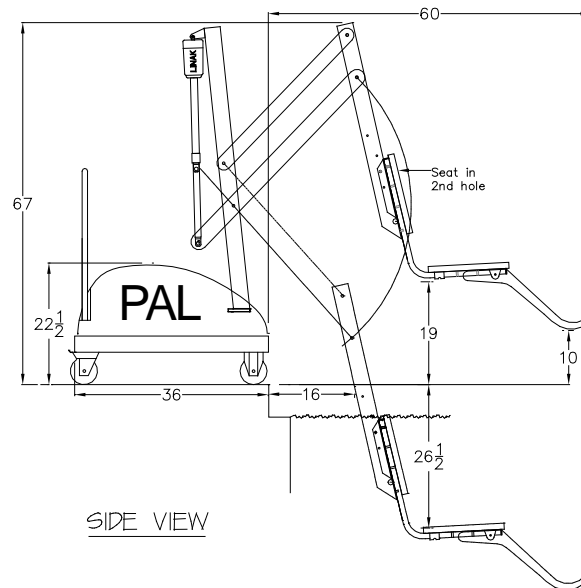
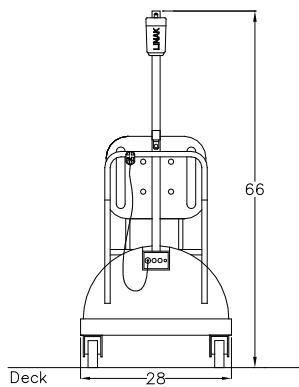
Specification Number:	SRS-1201		S.R. Smith P.O. Box 400, 1017 SW Berg Parkway Canby, Oregon 97013 Tel: (800) 824-4387 (503) 266-2231 Fax: (503) 166 4334 www.srsmith.com
Product Description:	PAL Portable Aquatic Lift		
S.R. Smith Part Number:	200-0000		
Revision:	B	Date: 08/08/13	
Written By:	Mikha Kaiel	Date: 02/18/10	
Approved By:		Date:	
Page 2 of 2	Proprietary and confidential: The information contained in this specification is the sole property of S.R. Smith LLC. Any reproduction in part or whole without the written consent of S.R. Smith LLC is prohibited.		



Product Specifications - Drawing



- NOTES:
1. DRAWINGS SHOW KEY VIEWS OF LIFT.
 2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 3. DO NOT SCALE DRAWINGS.



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Installation Requirements:

The Portable Aquatic Lift (PAL) does not require bonding or grounding. The National Electric Code (NEC) Article 680 covers swimming pools, spas, hot tubs, and fountains. It defines Portable Equipment as "Equipment that is actually moved or can be easily moved from one place to another in normal use." This would include items on the pool deck, such as portable lifeguard chairs, lane line reels, and the PAL.

The one area that separates the PAL from the other items listed is the presence of an electric battery and control unit. Article 680 does not specifically address such devices, instead referring in 680.7, to "Cord-and-Plug-Connected Equipment," which would include fixed or stationary equipment that has a power cord. Examples would include a pool vacuum pump or fan. These items are required to be grounded but not bonded because of the presence of the power cord. The difference between grounding and bonding should be clarified.

Bonding refers to equipotential bonding within the pool area, this is covered in 680.26 of the NEC. Equipotential bonding means that all items will have the same voltage, such that making contact with two separate surfaces will not cause electric shock. This is required for the following items: metallic structural components of the pool, underwater lighting, metal fittings, electrical equipment, and fixed equipment. The PAL lift is not required to be bonded because it is portable.

Grounding is covered in Article 250 of the NEC. It requires that an electrically conductive route be available to the source of the electricity that is not normally used. This is why modern appliances have a third prong which does not normally carry any current. Article 250 Section VIII references "Direct-Current Systems," which includes the PAL lift battery and control unit. It states, in 250.162(A), that a DC system operating below 50V does not need to be grounded. The PAL battery and controller operate at 24V DC and thus not required to be grounded.

Specification Number:	SRS-1201A		S.R. Smith, LLC P.O. Box 400, 1017 SW Berg Parkway Canby, Oregon 97013 Tel: (800) 824-4387 (503) 266-2231 Fax: (503) 266-4334 www.srsmith.com
Product Description:	PAL Portable Aquatic Lift		
S.R. Smith Part Number:	200-0000		
Revision:	B	Date: 08/08/13	
Written By:	Mikha Kaiel	Date: 11/9/11	
Approved By:	B. Svendsen	Date: 11/9/11	
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