

## Twin Port

12V

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ORIGINAL INSTRUCTIONS/TRANSLATION OF ORIGINAL INSTRUCTIONS  
 READ AND UNDERSTAND THIS MANUAL PRIOR TO OPERATING OR  
 SERVICING THIS PRODUCT



## The TwinPort Live Well Pump

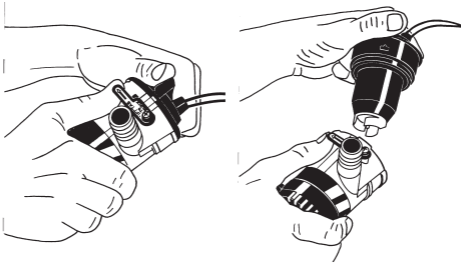
Tough and durable Twin Port Pumps provide the convenience of using only one intake thru-hull for both the live well system and the wash down pump. The new Twin Port pump features the convenience of original removable motor cartridge which provides long service life even in tough salt water environments. The replaceable cartridge allows for ease of changing pump capacities as well as complete access to the impeller for cleaning and maintenance. Twin Port Cartridge Live Well pumps are available with multiple port options including SPX Johnson Pumps tough new "DuraPort" design. A ball valve or seacock mounted on the inlet side of the pump is recommended to prevent flooding should accidental damage to the pump or plumbing system occur. Always keep the ball valve closed while the pump is not in operation.

### Twin port pump includes:

- (1) Pump
- (1) 1/2" NPTM attached
- (1) 1/2" NPTM x 3/4" NPTM adapter
- (1) 3/4" hose barb with nut and washer
- (1) 3/4" 90° hose barb

### To Replace Motor Cartridge

- ***Make sure to close ball valve before removing the motor cartridge!!!***
- Disconnect all wiring
- Lift tab and rotate the two fins in a counter clockwise direction and lift out.



- To reinstall, first make sure the “O” Ring is properly located.

Coat the “O” Ring with a light film of vegetable oil or mineral oil, then align the two cams on either side of the power cartridge with the two slots in the outer housing. Press down and twist in a clockwise rotation. To ensure that the power cartridge is properly located, twist fins in a counter clockwise direction without lifting tab. Cartridge should stay in place.

## **Mounting of the Twin Port Live Well Pump**

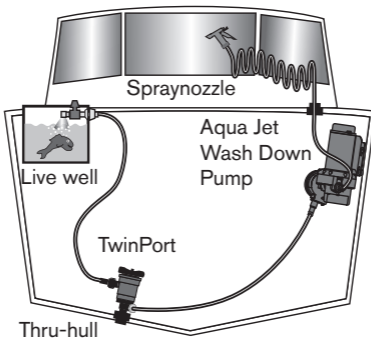
The Twin Port pump is designed to thread directly into a  $\frac{3}{4}$ " NPTF ball valve or seacock. Pump is not self priming and must be mounted below the water line to ensure adequate performance. Pumps mounted through the transom will only operate while the boat is at idle or a slow troll. Pumps mounted through the boats bottom can provide continuous water flow while underway or idle when coupled with a high speed low or high flow water pick up.

## Thru-Bottom Installation

- Install high speed low or high volume water pickup and either a ball valve or seacock as recommended by the manufacturer at least 3 to 4 inches below the water line in an accessible location. Thread intake of pump into valve and tighten by hand aligning the discharge port in the direction of the live well. Use sealing tape or sealant on threads if necessary.

## Thru-Transom Installation

- Install thru-hull and ball valve or seacock as recommended by the manufacturer at least 2 to 3 inches below the water line. Thread pump into valve until hand tight making sure that the pumps discharge outlet is orientated between the 10:00 and 2:00 o'clock position to allow trapped air to vent properly. Use sealing tape or sealant on threads if necessary.



## **Live Well Hose Connection**

- Connect 3/4" I.D. hose from live well to pumps 3/4" outlet using either the straight or 90° discharge port. Hand tighten discharge port to pump and secure hose with clamp. To prevent airlocks, route hose from pump to live well with a continuous vertical rise and no dips or loops making certain that the hose does not drop below the pumps level.

## **Wash Down Hose Connection**

- Connect 1/2" wash down hose directly to pumps 1/2" nptf hose connection. If 3/4" hose is used connect to pump using 1/2"x 3/4" adapter provided and either the straight or 90° port. Secure hose with clamps. To ensure best performance and reliability use marine grade smooth bore hose.

## **Wiring the Pump**

- Connect the brown wire to the positive (+) fused side of the battery.
- Connect the black wire to the negative (-) side of the battery.
- Install the proper size fuse; 550, 750, 950, 1250 GPH —5 Amp fuse.
- For longer pump life, do not run dry.
- Do not cut back insulation more than 3" and keep all connections well above water levels. A submerged splice will render the warranty void. Keep all wire connections and joints high and dry. The wiring connections should be made with water resistant permanent terminals. Liquid electrical tape should be used to coat the terminals.

## Functionality

### Live Well

– To fill live well open ball valve or seacock and activate the pump. Once the live well is filled the pump can run continuously for a continuous exchange of water or can be operated on a cycle timer. Thru-bottom mounted pumps with high speed pickups should provide a continuous water flow to the live well at all time during the boats operation. Thru-transom mounted pumps will provide water flow only when the boat is at idle or under a slow troll.

### Wash Down

– To operate wash down pump it is only necessary to make sure the ball valve is open and that the wash down pump is turned on. It is not necessary to have the Twin Port pump running to use the wash down pump. Live well/Wash Down pump can be operated simultaneously. For safety concerns keep the ball valve or seacock closed while not in use.

## Trouble Shooting

### ▪ Twin Port pump does not turn on.

Check wiring connections for power and proper grounding. Check for proper fuse size (5 amps).

### ▪ Twin Port pump turns on but does not pump.

Open ball valve or seacock. Open valve at live well. Check to make sure pump is mounted below water line. Remove motor cartridge and check impeller for damage. Inspect plumbing for kinks, dips or loops.

- **Wash Down pump turns on but does not pump.**

Open ball valve or seacock. Inspect wash down pump intake filter debris.

## **Warranty information**

CAUTION - Warranty void if seal on product is broken, if any electric cord is cut back more than 3 inches, if electric splices become submerged, or if product is installed contrary to instructions or warnings.

## **Waste handling & material recycling**

At the products end of life, please dispose of the product according to applicable law. Where applicable, please disassemble the product and recycle the parts material.