



AQUA-WORLD THRU-HULL



- Completely Submersible
- Compact Rule Pumps
- Anti-Airlock Features (On All But TH-1100)
- Low Amperage Draw
- Ignition Protected
- Silent Running

- Water-Cooled Motor
- No Burnout If Run Dry
- 12-Month Warranty (Against Factory Defects)



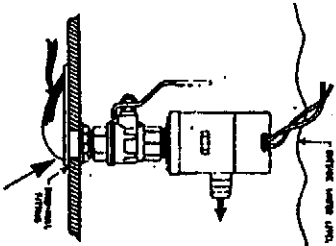
THRU-HULL BAIT & WASH DOWN PUMP



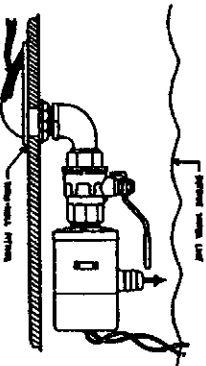
(Male Fitting Mounts Directly Into Thru-Hull Shut-off Housing)

INSTALLATION INSTRUCTIONS

The pump's 3/4" NPT male threaded inlet mounts directly into the Coast Guard required shut-off valve above the thru-hull water inlet (shown at right). No nipple needed! Mount below the water level, keeping in mind that the deeper the pump is mounted, the more efficient it will be. Use Teflon tape on the threads, and being careful not to cross-thread it, screw the pump into the valve housing top, with outlet facing in the desired direction.



PLEASE NOTE: DRILLING A FEW HOLES IN ROCK-UP SHELL HERE WILL HELP WITH AIRLOCK PROBLEMS.



Mounting the pump horizontally by use of a 90° male/female elbow (shown at left) will put the pump lower in the bilge, and with the outlet facing upward, will actually help prevent airlocks.

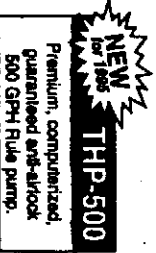
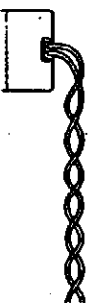
Even with the anti-airlock feature, when backing down you could pick up enough bubbles to cause an airlock and flow stoppage. If this happens, turn off the pump for a few seconds, allowing water to flow back down through the pump and flush out the trapped air.

It is very important to use smooth-wall, reinforced vinyl hose clamped tightly to the outlet to prevent leakage, and run it continually upward from the pump outlet to the bait tank or wash down fitting. Avoid ups and downs or loops that can trap air or prevent back flow.

ELECTRICAL CONNECTION

Connect the pump to a 12-volt power source, with the brown lead going to positive and black to negative. Fuse the brown (positive) lead either in-line in a waterproof holder, or in the electrical panel with the appropriate fuse designated on reverse side.

For installations up to 20 feet from the battery use 16 gauge wires, connecting them above water level with waterproof shrink type butt connectors. If longer wires are needed, use 14 gauge. To prevent electrical noise in your electronics and radio, take the positive and negative leads that come from the pump and twist them together over approximately 8 inches of length (as shown at right).



Pump	Amp Draw	Fuse Size	Flow Capacity	Hose Needed	Bait Tank Size
TH-360	2.5A	3 amp	360 gph	3/4" ID	up to 22 gal.
TH-500	2.5A	3 amp	500 gph	3/4" ID	22 to 30 gal.
TH-700	4A	5 amp	700 gph	3/4" ID	30 to 40 gal.
TH-1100	5A	6 amp	1100 gph	1-1/8" ID	40 to 55 gal.
THP-500	2.5A	3 amp	500 gph	3/4" ID	22 to 30 gal.



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