



# BAIT & LIVEWELL PUMP

## MODELS 1500 AND 2000

INSTALLATION AND  
OPERATION MANUAL

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# SAFETY INSTRUCTIONS

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**SAVE THESE INSTRUCTIONS:** This manual contains important instructions that should be followed during installation, operation, and maintenance of the product. Carefully read and follow all safety instructions in this manual.

## IMPORTANT SAFETY TERMINOLOGY

**⚠ DANGER** indicates a hazard which, if not avoided, *will* result in death or serious injury.

**⚠ WARNING** indicates a hazard which, if not avoided, *can* result in death or serious injury.

**⚠ CAUTION** indicates a hazard which, if not avoided, *can* or *may* result in minor or moderate injury.

**NOTE** addresses practices not related to personal injury.

## CALIFORNIA PROPOSITION 65 WARNING

**⚠ WARNING** This product and related accessories contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

## SAFETY INSTRUCTIONS

**⚠ WARNING** Always use fuse with amps rating specified on pump label. Failure to do so may result in serious personal injury, fire hazards and will void the warranty.

**⚠ WARNING** Do not disassemble base from pump body. Warranty will be voided upon disassembly. SHURFLO is not responsible for problems due to disassembly of base from pump body.

- ◆ Do not pump oil, diesel fuel, gasoline or other flammable liquids with this pump.
- ◆ Always disconnect power before servicing pump.
- ◆ Always use fuse size specified in specification.
- ◆ Seacock **MUST** be closed before removing pump for service.

# INSTALLATION

## MOUNTING

**(Suggested installation & operation only. Your installation may vary)**

Mount scoop-type thru-hull [high speed pick-up] to hull. Do not drive screws through hull!

- ◆ Below water level thru-hull fittings must have a seacock shut-off valve.
- ◆ Install a 1" NPT-M brass nipple fitting into pump inlet and mount directly to seacock.
- ◆ SHURFLO recommends installing our 330 livewell fill valve.

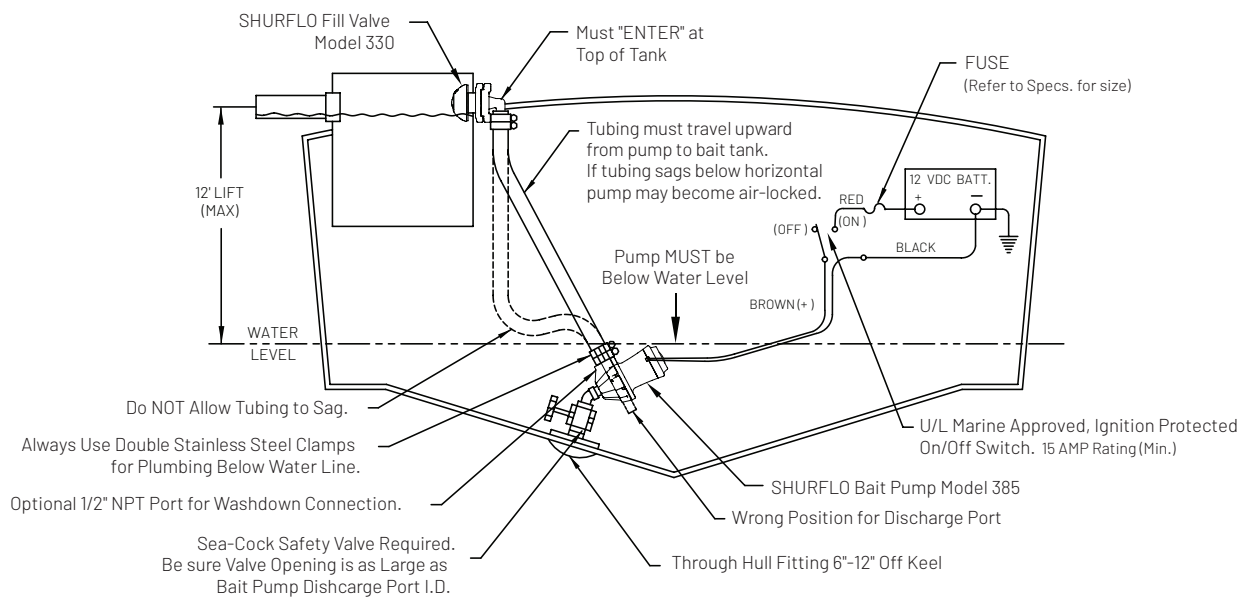
## PLUMBING

- ◆ Use smooth I.D. discharge tubing
- ◆ Tubing should be rated for below water line use.
- ◆ Always use double clamps for connections below the water line.
- ◆ Tubing should enter tank at top to avoid tank draining while pump is off. (See illustration for recommended installation).

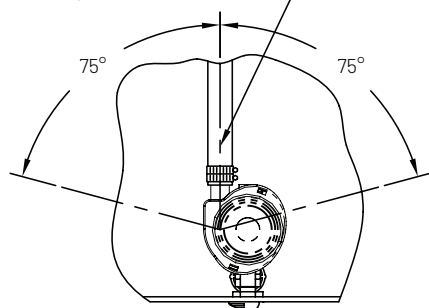
**Avoid airlock & maximize performance:** Avoid any sagging or loops in the tubing. Tubing must go up from pump to tank. Use full -flow style valves only. Valve is used to regulate flow to tank while at rest and while under way (2 different settings).

## ELECTRICAL

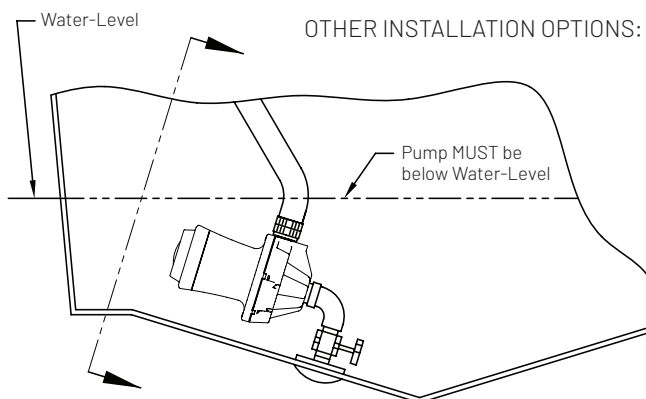
- ◆ Use 16GA wire for all circuits. If installation is over 20 feet, use 14GA wire.
- ◆ Brown pump wire must be connected to positive power.
- ◆ When the controller detects a lock rotor condition (high amps) for more than 10 seconds it will turn the pump off until power gets reset.
- ◆ Use waterproof connectors and splices.
- ◆ Attach all wires to UL Marine approved duty switch rated at or above 15 amps.
- ◆ Wire connections should be made above water level at the highest possible position.
- ◆ Seal wire connections to prevent corrosion and electrolysis.



Pump Should be Mounted within 75° of Vertical to Insure Quick Evacuation of Air.



OTHER INSTALLATION OPTIONS:



## OPERATION

- ◆ Never operate equipment if gasoline fumes are present.
- ◆ Always test pump before leaving dock.
- ◆ Open sea cock before running pump, do not run pump dry.
- ◆ Tank fill time should be tested at rest and under way.
- ◆ Pump will fill tank faster while boat is running at higher speeds. General tank fill times are between 7 minutes [warmer water] and 10 minutes [colder water].
- ◆ Measure tank fill time from empty while at rest and adjust valve position for desired time.
- ◆ Measure tank fill time at normal cruising speed and adjust valve to desired time.
- ◆ Refer to tank size chart for optimal pump size. Note position for later reference.
- ◆ Always remember to adjust valve when at rest or under way.
- ◆ Flow should be circular and slightly upward so debris clears from bottom of tank. Flow should not be too fast that fish get tired.

**TIPS:** Vibration induced by sea conditions or transportation may cause plumbing or pump hardware to loosen. Check for system components that may be loose. Many symptoms can be solved by simply tightening.

### FLOW GPH [LPH]

NAME	VOLTAGE	MODEL #	0' [0M]	3' [1M]	6' [2M]
1500	12 V*	358-001-00	1800 [6813]	1700 [6434]	1600 [6056]
2000	12 V	358-011-00	2200 [8327]	2000 [7570]	1900 [7191]
2000	12 V	358-012-00	2200 [8327]	2000 [7570]	1900 [7191]
1500	24 V	358-101-00	1800 [6813]	1700 [6434]	1600 [6056]
2000	24 V	358-111-00	2200 [8327]	2000 [7570]	1900 [7191]

\*Specifications given at design voltage 13.6VDC per ABYC recommendations.

### TECHNICAL DATA

MAX. HEAD FT. [M]	MAX. AMPS	FUSE	OUTLET PORT
14 [4.27]	8	10	1-1/8"
18 [5.5]	10	15	1-1/8"
18 [5.5]	10	15	1-1/8"
14 [4.27]	4	6	1-1/8"
18 [5.5]	5	6	1-1/8"

# TROUBLESHOOTING

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## TROUBLESHOOTING

Pump will not start or no water:

- ◆ Check electrical connections including fuse, switch and ground connection.
- ◆ Check if voltage is present at the pump.
- ◆ Check for improper fuse rating or wire size.
- ◆ Sea-Cock / thru-hull or valve closed?
- ◆ Pump mounted above water level.
- ◆ Sea-Cock valve not fully open.
- ◆ Check if tank flow adjust valve is closed.
- ◆ Check if inlet is clogged.