

THANK YOU FOR PURCHASING

Take the time to read the instructions carefully before using this appliance. We strongly recommend that you keep this instruction manual in a safe place for future reference

GENERAL INFORMATION:

Before use, read the following instructions carefully. Closely following these instructions will eliminate potential operating problems, assuring years of trouble-free service.

⚠ WARNING

Risk of electric shock. The pump is supplied with a grounding conductor and grounding-type attachment plug. To reduce the risk of electric shock, install only on a circuit protected by ground-fault circuit-interrupter. Always disconnect the pump from the power source before handling or making adjustments. Always wear rubber boots when servicing in wet areas. Make sure the pump power source is a separately fused, grounded 3-wire type receptacle of 15-amp capacity. **DO NOT REMOVE GROUND PRONG OR PLUG. DO NOT USE AN EXTENSION CORD.** Check to make sure installation is in accordance with the National Electric Code and all applicable local codes. Installation and servicing are to be conducted by qualified personnel.

⚠ WARNING

DO NOT pump flammable liquids
DO NOT use around explosive materials
DO NOT handle unit with wet hands or while standing in water
DO NOT lift the pump by the power cord
DO NOT connect to any voltage other than that listed on the nameplate
DO NOT use in water over 104 F (40°C).

⚠ CAUTION

DO NOT modify the pump in any way
DO NOT expose pump or discharge to freezing temperatures
DO NOT use this product to pump salt water or brine. Use with salt water or brine will void the warranty.
Pump water only.

SPECIFICATIONS:

MODEL	OUTPUT		OUTLET		PASS SOLID (mm)	MAX. FLOW (LPM)	MAX. HEAD (M)
	HP	W	MM	INCH			
BPS-80	1/10	80	20	3/4"	3	40	4
BPS(O)-100	1/4	100	25	1"	3	70	6.5
BPS(O)-200	1/4	200	32	1-1/4"	5	140	7
BPO-300	1/3	300	40	1-1/2"	5	200	8.5
BPS-400	1/2	400	50	2"	5	220	9
BPS-130M	1/6	120	32	1-1/4"	5	120	5.5
BPS-200M	1/4	180	32	1-1/4"	5	180	6.5

- Model with "A" is equipped with float switch / with "V" is equipped with Vertical Switch / with "EA" is equipped with EA electric switch

APPLICATION:

- This submersible utility pump is designed for a portable application, for dewatering around homes.
- This pump is great for water transfer from basin, pool cover, flooded floor, flat roof.
- May also be used for average flow fountain

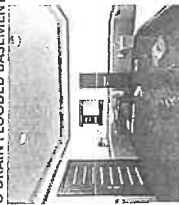
TO DRAIN SPA



TO DRAIN POOL AND POOL COVER



TO DRAIN FLOODED BASEMENT



FISHPOND OXYGENATION



OPERATION:

- Set pump on hard surface in water before starting.
- Use the included garden hose adapter for properly discharge line or disconnect the adapter to use a properly discharge.
- Plug power cord into properly grounded AC power outlet. Will operate continuously whether partly or fully submerged. Submersible utility pumps are intended to pump water at temperatures up to 104°F (40°C).
- To prevent unnecessary wear, unplug the pump from the power output when not in use.
- The pump is supplied with the garden hose adapter. For use with plastic pipe, remove the adapter and install the desired properly fitting. **DO NOT OVERTIGHTEN THE HOSE OR PLASTIC ADAPTER FITTING.** Finger tight plus 1/2 turn is sufficient
- Pump equipped with Optional Float switch. When the pump senses that it is no longer pumping water, the pump will shut off automatically.

⚠ CAUTION

Do not set pump directly on sand, dirt or mud. Sand or mud-choked pumps can be back-flushed clean.

⚠ CAUTION

Do not handle or carry the pump by the power cord. Use the handle.

⚠ CAUTION

Extended usage of the pump in a partially submerged or non-submerged situation may cause the pump to overheat due to lack of heat dissipation from the water. If this occurs, the pump will shut itself off until the motor cools to its normal temperature. Repeated overheating may cause damage to the pump.

MAINTENANCE

To clean a pump clogged with debris:

- Unplug the pump from electrical power.
- Remove the screws and screen from the bottom of the pump.
- Remove the screws, volute, and seal gasket from the pump.
- Clean the debris from the impeller. Reassemble.
- If debris is preventing the float switch from operating properly, remove any debris from the float switch cage on the side of the pump. The bottom portion of this cage can be removed for further cleaning.

LIMITED WARRANTY:

Manufacturer warrants, to the purchaser and subsequent owner during the warranty period, every new product to be free from defects in material and workmanship under normal use and service, when properly used and maintained, for a period of Twelve (12) Month from date of purchase by the end user, or 18 months from date of original manufacture of the product, whichever comes first. Parts that fail within the warranty period, one year from date of purchase by the end user, or 18 months from the date of original manufacture of the product, whichever comes first, that inspections determine to be defective in material or workmanship, will be repaired, replaced or remanufactured at Manufacturer's option, provided however, that by so doing we will not be obligated to replace an entire assembly, the entire mechanism or the complete unit. All transportation charges on Products or parts submitted for repair or replacement must be paid by purchaser.

This Limited Warranty does not cover Products which have been damaged as a result of accident, abuse, misuse, neglect, improper installation, improper maintenance, or failure to operate in accordance with HUNG PUMP's written instructions.

THERE IS NO OTHER EXPRESS WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR FROM THE DATE OF PURCHASE. THIS IS THE EXCLUSIVE REMEDY AND ANY LIABILITY FOR ANY AND ALL INDIRECT OR CONSEQUENTIAL DAMAGES OR EXPENSES WHATSOEVER IS EXCLUDED.

In those instances where damages are incurred as a result of an alleged pump failure, the Homeowner must retain possession of the pump for investigation purposes.

TROUBLESHOOTING CHECKLIST



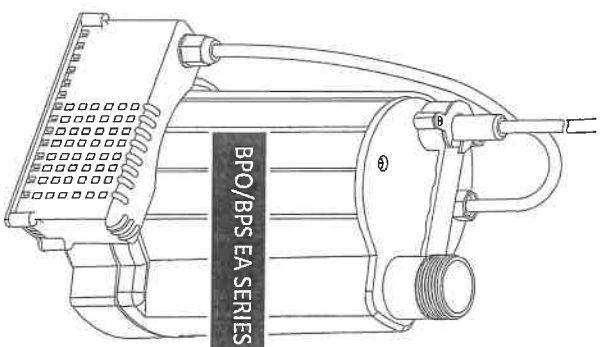
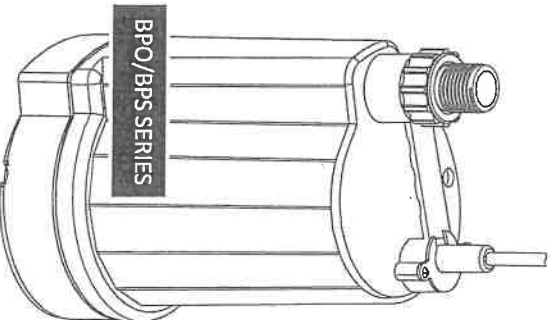
CAUTION: SHUT OFF POWER TO THE PUMP.

FAILURE	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Pump will not turn	<ol style="list-style-type: none"> Poor electrical connection, blown fuse, tripped breaker, or other interruption of power; improper power supply Leakage circuit breaker or motor thermal relay trip Defective motor Float movement restricted (for float switch version) Insufficient liquid level (for float switch version) 	<ol style="list-style-type: none"> Check all electrical connections for security. Have electrician measure current in motor leads. If current is within $\pm 20\%$ of locked rotor Amps, impeller is probably locked. If current is 0, overload may be tripped. Remove power, allow pump to cool, then recheck current Check the circuit breaker and fuse in the good condition and well connected. Please cool down the motor to 5 minutes when the thermal relay trip. Check winding insulation (Megger Test) and winding resistance. If check is outside of range, dry and recheck, if still defective, replace per service instructions Reposition pump or clean basin as required to provide adequate clearance for float Make sure liquid level is at least equal to suggested turn-on point.
Pump hums but doesn't run	<ol style="list-style-type: none"> Incorrect voltage Impeller jammed or loose on shaft, worn, or damaged; impeller cavity or inlet plugged 	<ol style="list-style-type: none"> Check all electrical connections for security. Have electrician measure current in motor leads if current is within $\pm 20\%$ of locked rotor Amperes, impeller is probably locked. If current is 0, overload may be tripped. Remove power, allow pump to cool, then recheck current Check impeller for freedom of operation, security, and condition. Clean impeller cavity and inlet of any obstruction
Pump delivers insufficient capacity	<ol style="list-style-type: none"> Incorrect voltage Excessive inflow or pump not properly sized for application Discharge restricted Check valve stuck closed or installed backwards Shut-off valve closed Impeller jammed or loose on shaft worn or damaged; impeller cavity or inlet plugged Pump may be air locked 	<ol style="list-style-type: none"> Check all electrical connections for security. Have electrician measure current in motor leads. If current is within $\pm 20\%$ of locked rotor Amps, impeller is probably locked. If current is 0, overload may be tripped. Remove power, allow pump to cool, then recheck current Recheck all sizing calculations to determine proper pump size Check discharge line for restrictions, including ice. If line passes through or into cold areas Remove and examine check valve for proper installation and freedom of operation Open valve Check impeller for freedom of operation, security, and condition. Clean impeller cavity and inlet of any obstruction Loosen union slightly to allow trapped air to escape
Pump shuts off and turns on independent of switch (trips thermal overload protector)	<ol style="list-style-type: none"> Incorrect voltage 	<ol style="list-style-type: none"> Check all electrical connections for security. Have electrician measure current in motor leads. If current is within $\pm 20\%$ of locked rotor Amps, impeller is probably locked. If current is 0, overload may be tripped. Remove power, allow pump to cool, then recheck current Recheck all sizing calculations to determine proper pump size
Check pump specifications to Determine.	<ol style="list-style-type: none"> Excessive inflow or pump not properly sized for application 	<ol style="list-style-type: none"> Check impeller for freedom of operation, security, and condition. Clean impeller cavity and inlet of any obstruction
NOTE: Pump may start unexpectedly. Disconnect power supply	<ol style="list-style-type: none"> Impeller jammed; loose on shaft worn or damaged; impeller cavity or inlet plugged Excessive water temperature (internal protection only) 	<ol style="list-style-type: none"> Check impeller for freedom of operation, security, and condition. Clean impeller cavity and inlet of any obstruction Check pump temperature limits & fluid temperature
Pump operates noisily or vibrates excessively	<ol style="list-style-type: none"> Worn bearings; motor shaft bent Debris in impeller cavity or broken impeller Piping attachments to building structure too rigid or too loose 	<ol style="list-style-type: none"> Defective bearing or motor shaft Check impeller for freedom of operation, security, and condition. Clean impeller cavity and inlet of any obstruction. Replace portion of discharge pipe with flexible connector



INSTRUCTION MANUAL

BPS/BPO SUBMERSIBLE UTILITY PUMPS SERIES



The image shown here is indicative only. If there is inconsistency between the image and the actual product, the actual product shall govern.

WARRANTY: PRODUCT DEFECTS COVERED 12 MONTHS FROM DATE OF PURCHASE. RECEIPT AND PRODUCT DATE CODE REQUIRED FOR WARRANTY CLAIM