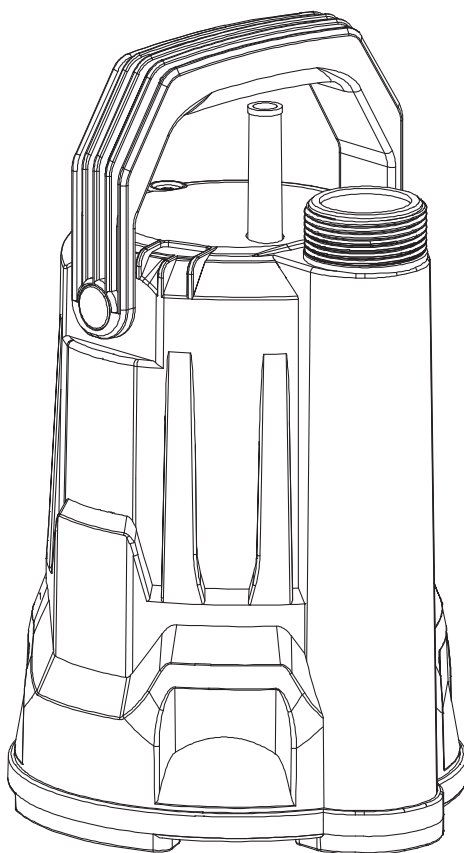




MANUAL SUBMERSIBLE PUMP

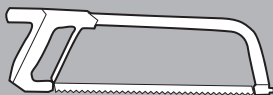
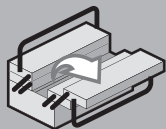
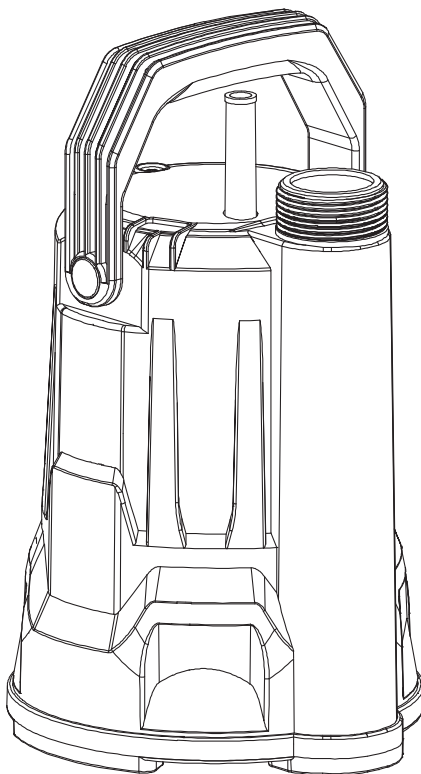
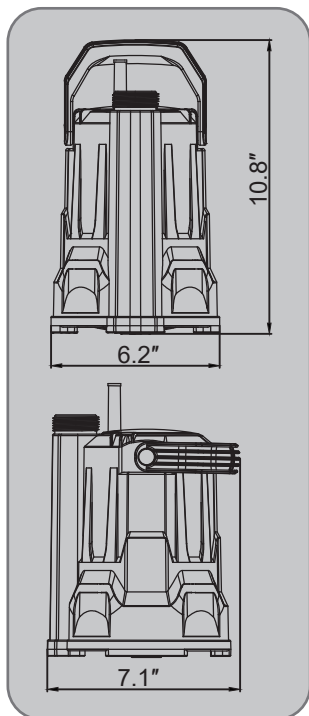
MODEL: FSP400C-2



Instruction Manual



Find More Items

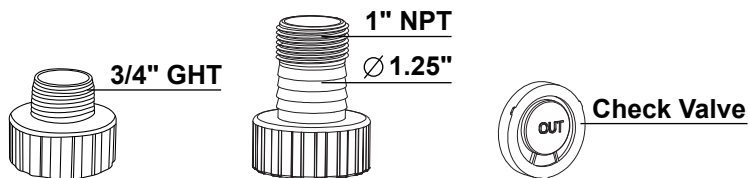


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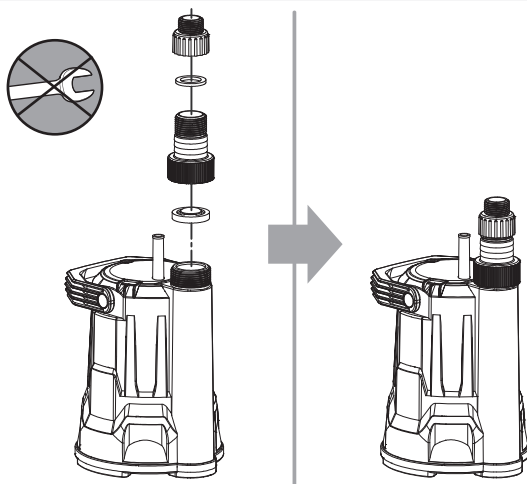


Note: The above pump accessories are not included.

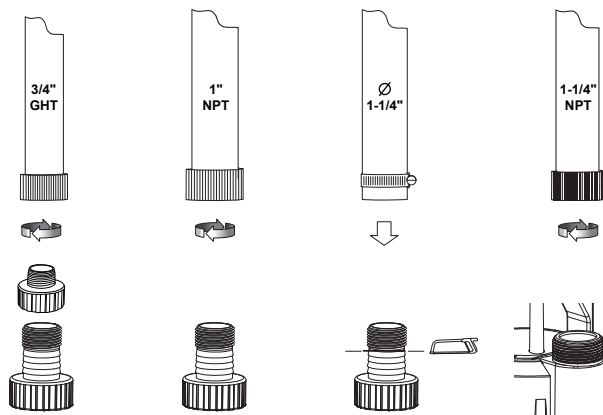
1 HOSE ADAPTERS INCLUDED



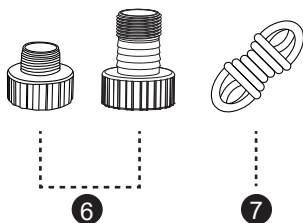
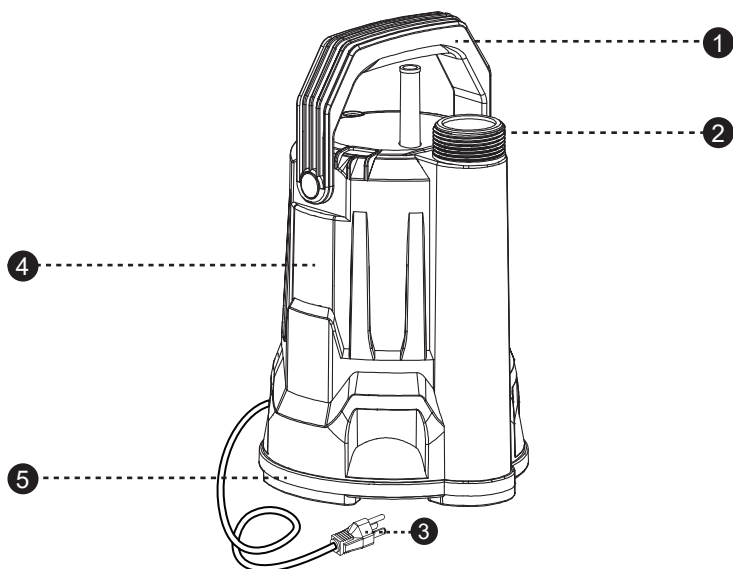
2 HOSE ADAPTER CONNECTION



3 HOSE ADAPTER INTRODUCTION

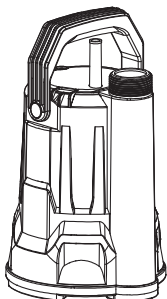


3 PRODUCT INTRODUCTION

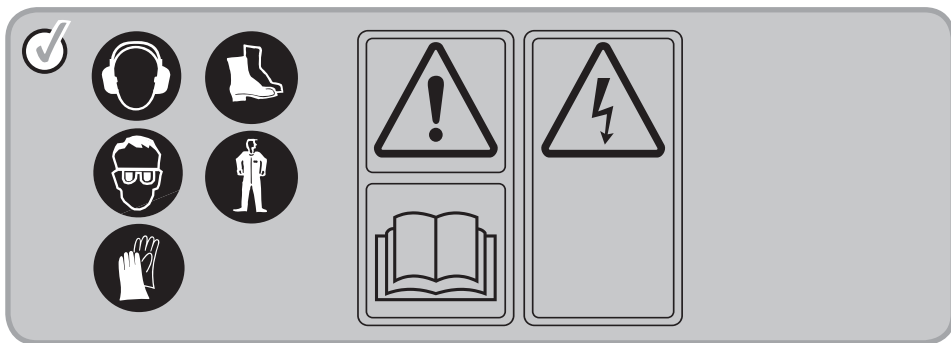


- 1. Pump Handle
- 2. Discharge Port
- 3. Cable and Plug
- 4. Main Body
- 5. Pump Base
- 6. Hose Coupling
- 7. Rope

4 MANUAL CONTROL



Pump works by simple plug-in operation, plug in to play while unplug to stop.
it can start pumping water from minimum 4" down to 0.4"
Please make sure never let pump become dry running!



WARNING - To Reduce The Risk Of Electric Shock, Connect Only To A Properly Grounded, Grounding Type Receptacle, Or Equivalent.

WARNING - Risk of Electric Shock - Do Not Stand in Swimming Pool Area or Water Areas When This Pump Is in Operation.

WARNING - To Reduce The Risk Of Electric Shock, Install Only On A Circuit Protected By A Ground-Fault Circuit-Interrupter (GFCI).

CAUTION - This Pump Has Been Evaluated for Use With Water Only.

CAUTION - To Reduce The Risk Of Electric Shock, Pull Plug Before Servicing This Pump.



Attention danger



Observez



Not connected



Connected



Power up

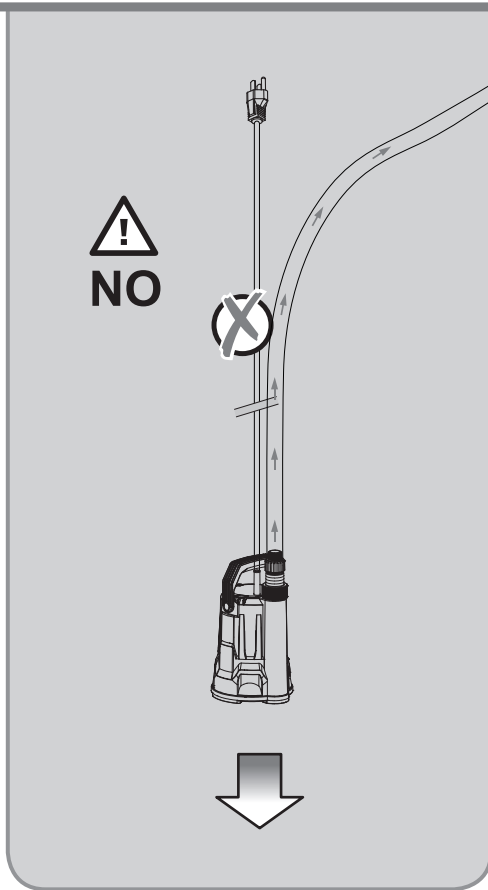
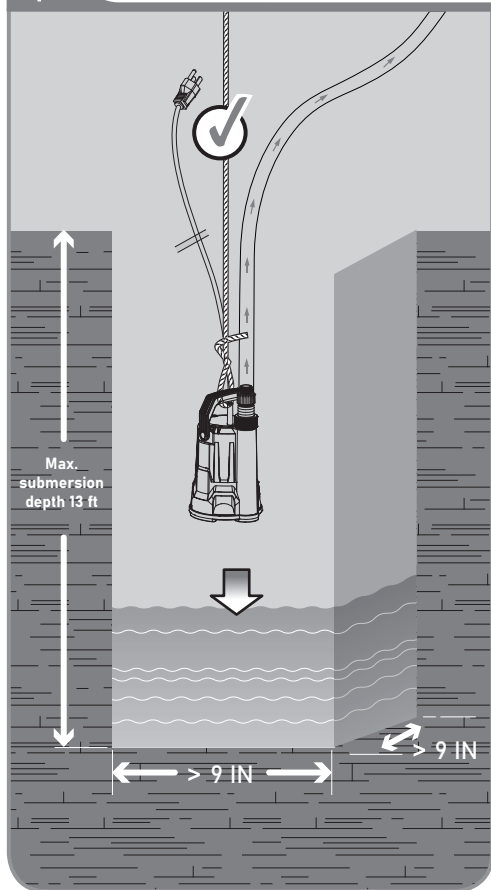


Stop

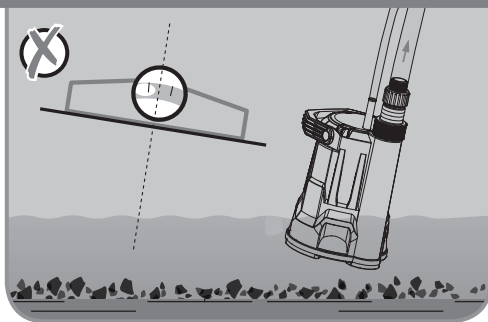
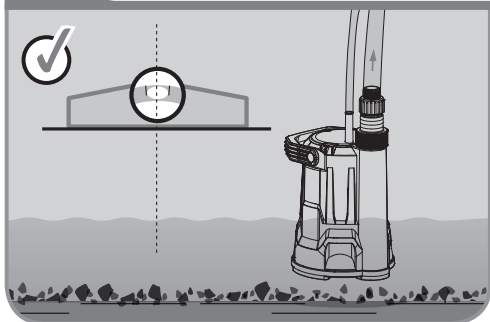
Before The Start



1



2

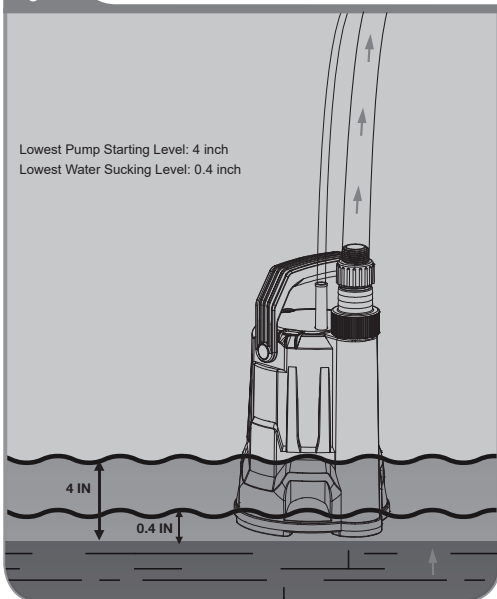


Start Up Correctly

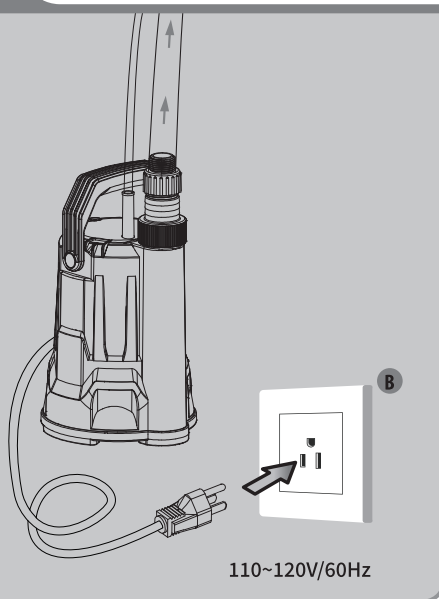
3



Lowest Pump Starting Level: 4 inch
Lowest Water Sucking Level: 0.4 inch



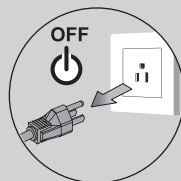
4



5



ON
ⓘ



Max. Solid Size



Safety and Specifications

GENERAL SAFETY

See the "Troubleshooting Chart" in this manual for information about common sump pump problems and remedies.

SAFETY GUIDELINES

⚠ATTENTION

▲ RISK OF ELECTRICAL SHOCK: This pump is supplied with a grounding conductor and grounding-type attachment plug. To reduce the risk of electric shock, be certain that it is connected only to a properly grounded, grounding-type receptacle. A separate branch circuit is recommended. Do not remove the third prong from the plug.

▲ RISK OF ELECTRICAL SHOCK: This pump has not been certified for use in swimming pool areas where people are present in the water. Do not use the pump for this purpose.

▲ WARNING: Do not use to pump flammable or explosive liquids such as gasoline, fuel oil, kerosene, etc. This pump should only be used with liquids compatible with pump component materials. Failure to follow this warning can result in property damage, personal injury, or death.

The pump motor is equipped with an automatic resetting thermal protector and may restart unexpectedly.

Do not handle a pump or pump motor with wet hands or when standing on a wet or damp surface, or in water. Do not stand in water while changing fuses or insert your finger into the fuse socket.

Disconnect the pump from the power source, drain all liquids, and release all pressure within the system before attempting to service the pump.

This pump has no user-serviceable parts. The motor housing of the pump is completely sealed and requires no service. Disassembly of the motor housing or alteration of the power cord will void all warranties.

The power cord on this pump cannot be replaced. If it becomes damaged, the entire pump must be replaced.

Conformity with local and state electric codes is mandatory. The National Electric Code requires that a ground fault circuit interrupter (GFCI) be used in the branch circuit supplying sump, utility, effluent and all fountain pumps, pool pumps, and other pond equipment.

All wiring and electrical work should be done by a qualified electrician.

Secure the discharge line before starting the pump. An unsecured discharge line will whip, possibly causing personal injury and/or property damage.

Do not operate the pump in a dry basin. This will cause the pump to become extremely hot, causing burns if touched and/or damage to the pump.

Do not lift or carry the pump by the power cord; use the handle.

DESCRIPTION

This pump is recommended for use in basins or household water lift, and is suitable for pumping clean water in sump. This pump is designed for MANUAL control, and the pump turns on and off is controlled by cable plug.

Unit is constructed of hi-impact corrosion resistant plastic.

NOTICE: This product is not designed for pumping flammable or corrosive fluids, e.g. oil or brine...! Use with such materials will void warranty.

INSTALLATION

⚠ATTENTION

▲ CAUTION: This pump is intended to pump water only, with a maximum temperature of 95 °F (35°C). Do not pump heated liquids.

▲ CAUTION: The motor housing transfers heat to the volute. This pump is capable of operating with the motor housing partially exposed for extended periods, while still providing sufficient motor cooling and bearing lubrication. However, for the best cooling and longest motor life, the level of the liquid being pumped should normally be above the top of the motor housing.

1. Place the pump on a hard, level surface in a suitable, gas-tight basin that is at least 9" (23 cm) diameter and 4" (10 cm) deep. Never place pump directly on clay, earth, or gravel surfaces.

2. Install the pump with ABS, PVC, polyethylene, or galvanized steel pipe. Use the proper adapters to connect plastic pipe to the pump.

3. Pump should be located and should rest on level solid foundation. Do not suspend pump by means of discharge-pipe or power cord. Keep pump inlet screen clear.

4. Thread outlet pipe into pump body carefully to avoid stripping or crossing threads.

a. To install with garden hose, install adapter provided with pump.

NOTICE: To keep friction as low as possible, hose must be 3/4" or larger. Keep hose as short as possible.

b. To install with rigid pipe, use plastic pipe. Wrap thread with Teflon tape or use clamp or reliable thread sealant.

Screw pipe onto pump hand tight +1 - 1-1/2 turns.

5. Power Supply: Pump is designed for 115V., 60 Hz. operation and requires an individual branch circuit of 15 amperes or more capacity. It is supplied with a 3-wire cord set with grounding-type plug for use in a 3-wire grounded outlet. 3 wire extension cord of at least 18AWG (0.75mm²) size is suggested, with larger sizes for runs over 25 ft. For safety, pump should always be electrically grounded to a suitable electrical ground such as a grounded water pipe or a properly grounded metal raceway, or ground wire system. Do not cut off the grounding protection conductor.

⚠WARNING

The pump motor is equipped with automatic resetting thermal protector and may restart unexpectedly. Protector tripping is indication of motor overloading as a result of operating pump at low lift (which will overload the motor), excessively high or low voltage, inadequate wiring, incorrect motor connections, or defective motor or pump.

TESTING

⚠ATTENTION

NOTE: When the pump is installed in a basin with a sealed cover, you cannot observe the operation of the float switch. The cover usually will have a spare hole that is blocked with a rubber plug. Remove this plug to observe switch operation during testing.

1. Check the pump label for proper voltage required.

▲ WARNING: Do not connect pump to voltage other than that shown.

2. Plug the power cord directly into an electrical outlet.

3. Run water into the basin until pump starts.

4. Be sure the check valve in the discharge line is open.

5. Allow the pump to operate through several on-off cycles.

If the pump does not operate properly, consult the TROUBLESHOOTING INFORMATION table. If the trouble cannot be located, consult your pump dealer or take the pump to an authorized service center.

Operation

SPECIFICATIONS

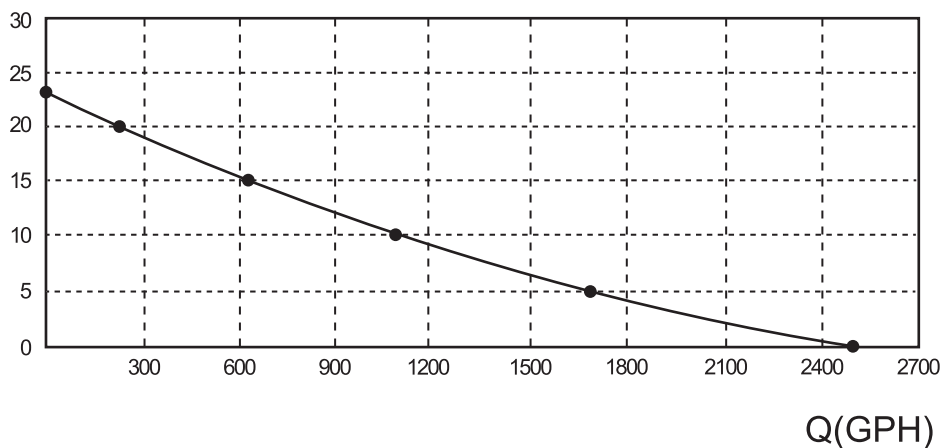
Model No.	FSP400C-2
Voltage / Frequency	110~120V / 60Hz
Horse Power	1/2 HP
Max Amp	3.5 A
Protection Type	IPX8
Max Delivery Head	23 FT
Max. Flow Rate	2500 GPH
Max Water Temperature	95°F
Max Grain Size	1/5 Inch
Discharge Port	NPT 1.25" male thread
Adapters	GHT 3/4", NPT 1" male thread including check valve
Length of Power Cord	16.4 Feet
Length of Nylon Rope	26 Feet
Control	Manual

PERFORMANCE

GPH AT TOTAL FEET (M)					
0	5(1.5)	10(3)	15(4.5)	20(6)	
FSP400C-2					
GPH	2500	1680	1100	620	250

Operation

H(FT)



TROUBLESHOOTING CHART		
PROBLEM	PROBABLE CAUSES	CORRECTIVE ACTION
Pump does not turn on.	Pump not plugged in.	Plug in pump.
	Circuit breaker shutoff or fuse removed.	Turn on circuit breaker or replace fuse.
	Accumulation of trash on float.	Clean float.
	Float obstruction.	Check float path and provide clearance.
	Defective motor.	Have pump serviced by authorized service center.
Pump will not shut off.	Float obstruction.	Check float path and provide clearance.
	Pump is air locked.	Shut power off for approximately 1 minute, then restart. Repeat several times to clear air from pump.
	Liquid inflow matches pump capacity.	Larger pump required.
Pump runs but does not discharge liquid.	Check valve installed backwards.	Check flow indicating arrow on check valve body to insure it is installed properly.
	Check valve stuck or plugged.	Remove check valve and inspect for proper operation.
	Lift too high for pump.	Check rating table.
	Inlet to impeller plugged.	Pull pump and clean.
	Pump is air locked.	Shut power off for approximately 1 minute, then restart. Repeat several times to clear air from pump.
Pump does not deliver rated capacity.	Lift too high for pump.	Check rated pump performance.
	Low voltage, speed too slow.	Check for proper supply voltage to make certain it corresponds to nameplate voltage.
	Impeller or discharge pipe is clogged.	Pull pump and clean. Check pipe for scale or corrosion.
Pump cycles continually.	No check valve in long discharge pipe allowing liquid to drain back into pump.	Install a check valve in discharge line.
	Check valve leaking.	Inspect check valve for correct operation.
	Basin too small for inflow.	Install larger basin.

RETAIN ORIGINAL RECEIPT FOR YOUR RECORDS.

LIMITED WARRANTY

FLUENTPOWER warrants to the original consumer purchaser ("Purchaser" or "You") of its products that they are free from defects in material and workmanship for a period of twelve (12) months from the date of the original consumer purchase.

If, within twelve (12) months from the original consumer purchase, any such product shall prove to be defective, it shall be repaired or replaced at **FLUENTPOWER**'s option, subject to the terms and conditions set forth below. The original purchase receipt and product warranty information label are required to determine warranty eligibility. Eligibility is based on purchase date of original product – not the date of replacement under warranty. The warranty is limited to repair or replacement of product only – Purchaser pays all removal, installation, labor, shipping, and incidental charges.

For parts or troubleshooting assistance, DO NOT return product to your retail store.

Claims made under this warranty shall be made by returning the product (except sewage pumps, see below) to the retail outlet where it was purchased immediately after the discovery of any alleged defect. **FLUENTPOWER** will subsequently take corrective action as promptly as reasonably possible. No requests for service will be accepted if received more than 30 days after the warranty expires.

If your sewage pump has failed:

- Wear rubber gloves when handling the pump;
- For warranty purposes, return the pump's cord tag and original receipt of purchase to the retail store;
- Dispose of the pump according to local disposal ordinances.

General Terms and Conditions

You must pay all labor and shipping charges necessary to replace product covered by this warranty. This warranty does not apply to the following: (1) acts of God; (2) products which, in **FLUENTPOWER**'s sole judgement, have been subject to abuse, accident, misapplication, tampering, or alteration; (3) failures due to improper installation, operation, maintenance or storage; (4) atypical or unapproved application, use or service; (5) failures caused by corrosion, rust or other foreign materials in the system, or operation at pressures in excess of recommended maximums. This warranty sets forth **FLUENTPOWER**'s sole obligation and purchaser's exclusive remedy for defective products.

FLUENTPOWER SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, OR CONTINGENT DAMAGES WHATSOEVER. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE FOREGOING WARRANTIES SHALL NOT EXTEND BEYOND THE DURATION PROVIDED HEREIN.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to You. This warranty gives You specific legal rights and You may also have other rights which vary from state to state.

CUSTOMER SUPPORT

PLEASE DON'T RETURN THIS
PRODUCT TO THE STORE

- ◆ HAVING PROBLEMS ?
- ◆ INSTALLATION QUESTIONS ?
- ◆ NEED PARTS ?
- ◆ TROUBLESHOOTING ?

CONTACT US FIRST

fluenttools@gmail.com

