

## 5.5-ASP Cast Iron Submersible Sump Pump

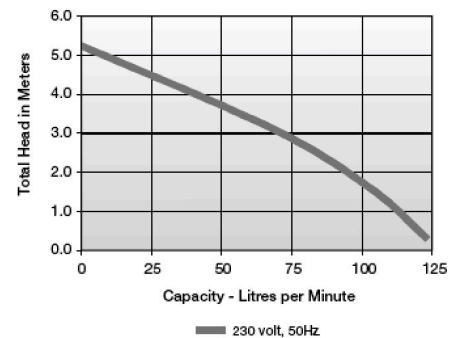
Submersible, water transfer or recirculation, water displays, air conditioning and machine tool coolants

- 1/4 HP shaded pole motor
- Zinc housing, polypropylene volute
- (19 mm garden hose adapter included)
- Integral snap action float switch
- IP 68
- Height: 274mm Length: 221mm Width: 264mm

<b>Capacity:</b>	123 LPH @31m
<b>Shut Off:</b>	5.21m
<b>On Level:</b>	178-254mm
<b>Off Level:</b>	51-127mm
<b>Discharge:</b>	25mm
<b>Electrical:</b>	230V, 50Hz, 2.8A, 445W
<b>MODEL:</b>	<b>505720</b>



Performance Curves





## 5.5-ASP Introduction

This instruction sheet provides you with the information required to safely own and operate your product. Retain these instructions for future reference.

The product you have purchased is of the highest quality workmanship and material, and has been engineered to give you long and reliable service. This product has been carefully tested, inspected, and packaged to ensure safe delivery and operation. Please examine your item(s) carefully to ensure that no damage occurred during shipment. If damage has occurred, please contact the place of purchase. They will assist you in replacement or repair, if required.

**READ THESE INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO INSTALL, OPERATE, OR SERVICE YOUR PRODUCT. KNOW THE PRODUCT'S APPLICATION, LIMITATIONS, AND POTENTIAL HAZARDS. PROTECT YOURSELF AND OTHERS BY OBSERVING ALL SAFETY INFORMATION. FAILURE TO COMPLY WITH THESE INSTRUCTIONS COULD RESULT IN PERSONAL INJURY AND/ OR PROPERTY DAMAGE!**

## DESCRIPTION

The housing is constructed of durable die cast zinc and polycarbonate material. The housing provides a case for the motor and the special dielectric oil which is used as a heat transfer and lifetime lubricant to the bearings of the motor. Under no circumstances should you open the case to expose the motor or drain the oil. If the case is opened, then the warranty expressed in this instruction sheet will be void.

## SAFETY GUIDELINES

Disconnect the pump from the power source before servicing or removing any component.

Do not use to pump flammable or explosive fluids such as gasoline, fuel oil, kerosene, etc. Do not use in explosive atmospheres. Pump should only be used with liquids compatible with pump component materials.

Do not handle pump with wet hands or when standing on a wet or damp surface or in water.

This pump is supplied with a grounding conductor and/or ground-type attachment plug. To reduce the risk of electric shock, be certain that it is connected to a properly grounded grounding-type receptacle.

In any installation where property damage and/or personal injury might result from an inoperative or leaking pump due to power outages, discharge line blockage, or any other reason, a backup system(s) and/or alarm should be used.

Support pump and piping when assembling and when installed. Failure to do so may cause piping to break, pump to fall, motor bearing failures, etc.

If the pump is oil-filled, the motor housing contains a dielectric lubricant installed at the factory for optimum motor heat transfer and lifetime lubrication of the bearings. Use of any other lubricant could cause damage and void the warranty.

This lubricant is non-toxic; however, if it escapes the motor housing, remove it quickly by placing newspapers or other absorbent material on the water surface to soak it up, so aquatic life is undisturbed.

## ELECTRICAL CONNECTIONS

1. Check the pump label for proper voltage required. Do not connect to voltage other than that shown.

2. If pump is supplied with a 3-prong electrical plug, the third prong is to ground the pump to prevent possible electrical shock hazard. **DO NOT REMOVE** the third prong from the plug. A separate branch circuit is recommended. Do not use an extension cord or cut plug from the cord; this will void the warranty.

3. If the cord is equipped with stripped lead wires, such as on 230v models, be sure that the lead wires are connected to a power source correctly. The green/yellow wire is the ground. The blue (or white) and the brown (or black) are live.

**CONSULT INSTRUCTION SHEET ILLUSTRATIONS FOR PROPER ASSEMBLY AND DISASSEMBLY OF YOUR PUMP.**



## OPERATION

1. Maximum water temperature: 122° F.
2. Connect 1-1/4" pipe directly into pump outlet or install hose adaptor and connect garden hose to adaptor.
3. Place pump in water at least 3/4" deep to begin pumping. Pump should be totally submerged for proper cooling of the motor when pump is operated for extended periods.
4. Pump is equipped with a float-operated mechanical switch, which will turn on when water level reaches approximately 8-1/2" and turn off at approximately 3-1/2". **NOTE:** For continuous duty operation, water level must be 5" min. to prevent overheating.
5. Plug power cord into a grounded receptacle with voltage consistent with pump voltage as indicated on pump nameplate.
6. Run water into pump until pump starts. Allow pump to operate through several on-off cycles.
7. Do not let the pump run dry (without liquid). It is designed to be cooled by pumping fluid. You may damage the seal and the motor may fail if the pump is allowed to run dry.
8. If the pump is going to be idle for a period of time, follow the cleaning instructions outlined in the next section. Do not let the pump freeze in the wintertime. This may cause cracking or distortion that may destroy the pump.
9. When using 3/4" garden hose adaptor performance will be reduced approximately 15%. This pump does not deliver enough pressure to operate lawn sprinklers properly.

## SERVICE INSTRUCTIONS

### **DISCONNECT THE PUMP FROM THE POWER SOURCE BEFORE SERVICING OR REMOVING ANY COMPONENT.**

1. The motor housing of the pump is completely sealed and requires no service. Disassembly of the motor housing or alteration of the power cord voids all warranty.
2. The motor is a continuous duty type sealed in oil with an automatic thermal overload protector device.
3. The pump can run against a restricted discharge such as a fountain without damage to the pump.
4. If the pump becomes clogged, snap the screen off and clean out the area.
5. If necessary, remove the seven screws holding the volute cover to the motor housing and clean the volute.
6. If impeller is removed, ensure that a spacing of .060" with shaft pushed toward housing is maintained when reassembling.
7. When reassembling, don't forget to install the seal ring between the volute cover and the volute.