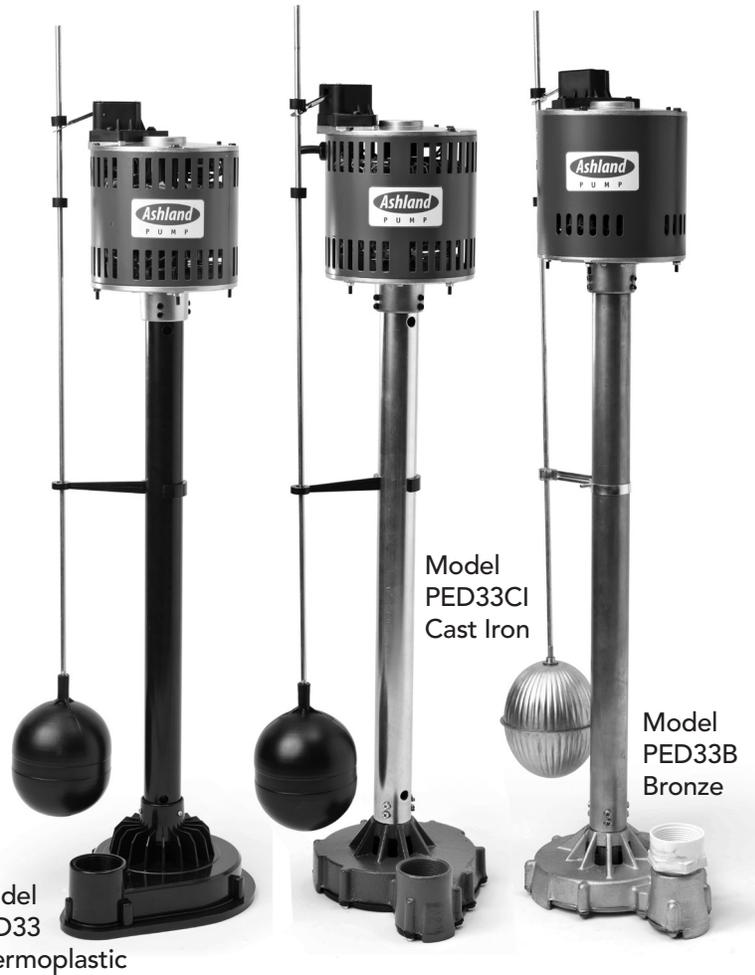




OPERATION,
PERFORMANCE, AND
SPECIFICATIONS

Pedestal Sump Pumps

- Thank you for purchasing this pump. Take the time to read the instructions carefully before using this product. We strongly recommend that you keep this instruction manual in a safe place for future reference.
- Please refer to our website and the Products Center for additional installation and operation instructions.
- Refer to the website for replacement parts information.



Model PED33 Thermoplastic

Model PED33CI Cast Iron

Model PED33B Bronze

LIMITED WARRANTY

This pump is warranted to be free from defects in material and workmanship and to perform within applicable specifications for a period of one year from date of installation or 18 months from date of manufacture, whichever comes first. Obligation under this warranty is limited to repairing or replacing any part thereof, which shall within one year be returned to us with transportation charges prepaid, and proved to be defective. The above limited warranty takes the place of all other warranties, express or implied and correction of such defects by replacement or repair shall constitute a fulfillment of all obligations under the terms of the warranty, which specifically EXCLUDES any incidental damages caused by or associated with this product or its use. The warranty does not cover any unit which has been damaged either in transit or by misuse, accident or negligence. No warranty or representative not contained herein shall be binding.

MARKS AND MEANING:

⚠ DANGER "Danger" indicates an imminent hazardous situation which, if not avoided, WILL result in death or serious injury.

⚠ WARNING "Warning" indicates an imminent hazardous situation which, if not avoided, MAY result in death or serious injury.

⚠ CAUTION "Caution" indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury.

PERFORMANCE

Model	HP	GPM at Total Feet of Head						Max. Head
		0'	5'	10'	15'	20'		
PED33	1/3	50	45	37	26	-	18'	
PED33B	1/3	50	45	37	26	-	18'	
PED33CI	1/3	58	53	40	26	-	18'	
PED50	1/2	83	70	58	39	11	22'	
PED50B	1/2	70	65	58	43	15	22'	
PED50CI	1/2	83	70	58	39	11	22'	



Pedestal Pumps Models: PED Series Specifications

Before installation, read the following instructions carefully. Failure to follow instruction and safety information could cause serious bodily injury, death and/or property damage. Each Ashland Pump is individually factory tested to ensure proper performance. Closely following these instructions will eliminate potential operating problems assuring years of trouble-free service.

Most accidents can be avoided by using common sense.

IMPORTANT - Ashland Pump is not responsible for losses, injury or death resulting from failure to observe these safety precautions, misuse, abuse or misapplication of pumps or equipment.

DANGER All returned products must be cleaned, sanitized, or decontaminated prior to shipment, to ensure employees will not be exposed to health hazards in handling said materials. All applicable laws and regulations shall apply.



WARNING Bronze/brass fitted pumps may contain lead levels higher than considered safe for potable water systems. Government agencies have determined that leaded copper alloys should not be used in potable water applications.

WARNING Installation, wiring, and junction connections must be in accordance with the National Electric Code and all applicable state and local codes. Requirements may vary depending on usage and location.

WARNING Installation and servicing is to be conducted by qualified personnel only.

DANGER Rotating machinery. Amputation or severe lacerations can result. Keep clear of suction and discharge openings. DO NOT insert fingers into pump with power connected.



WARNING Always wear eye protection when working on pumps. Do not wear loose clothing that may become entangled in moving parts.

DANGER Pumps build up heat and pressure during operation. Allow time for pumps to cool before handling or servicing.

DANGER Hazardous Voltage can shock, burn or cause death. This pump is not intended for use in swimming pools or water installations where human contact with pumped fluid is possible.



DANGER Risk of electrical shock. To reduce risk of electrical shock, always disconnect pump from power source before handling. Lock out power & tag.



WARNING Do Not use these pumps in water over 145°F. Do not exceed manufactures recommended maximum performance, as this could cause the motor to overheat.

CAUTION Make sure lifting handles are securely fastened each time before lifting.

DANGER Do not lift, carry or hang pump by the electrical cables. Damage to the electrical cables can cause shock, burns or death. Never handle connected power cords with wet hands. Use appropriate lifting device.



WARNING Sump and sewage pumps often handle materials which could cause illness or disease. Wear adequate protective clothing when working on a used pump or piping. Never enter a basin after it has been used.

DANGER Failure to permanently ground the pump, motor and controls before connecting to power can cause shock, burns or death.



DANGER These pumps are NOT to be installed in locations classified as hazardous in accordance with the National Electric Code, ANSI/NFPA 70.



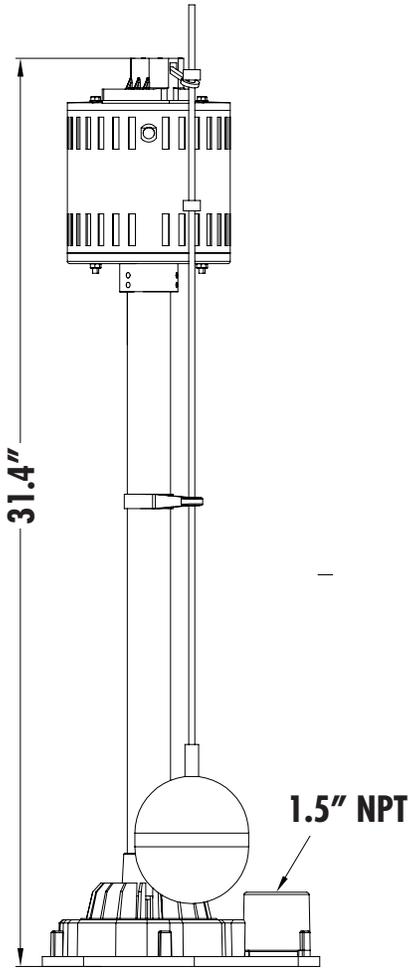
WARNING Do not introduce into any sewer, either directly, or through a kitchen waste disposal unit or toilet: Seafood Shells, Aquarium Gravel, Cat Litter, Plastic Objects, Sanitary Napkins or Tampons, Diapers, Rags, Disposable Wipes or Cloth, Medications, Flammable Material, Oil or Grease, Strong Chemicals, Gasoline.

- Operation against a closed discharge valve will cause premature bearing and seal failure on any pump.
- Any wiring of pumps should be performed by a qualified electrician.
- Cable should be protected at all times to avoid punctures, cuts, bruises, and abrasions-inspect frequently.
- Never handle connected power cords with wet hands.
- Never let cords or plugs lie in water outside the sump pit.
- These pumps are offered in a three phase and single phase wiring configuration. Voltages will vary according to the application and can be seen in the tables in this manual.

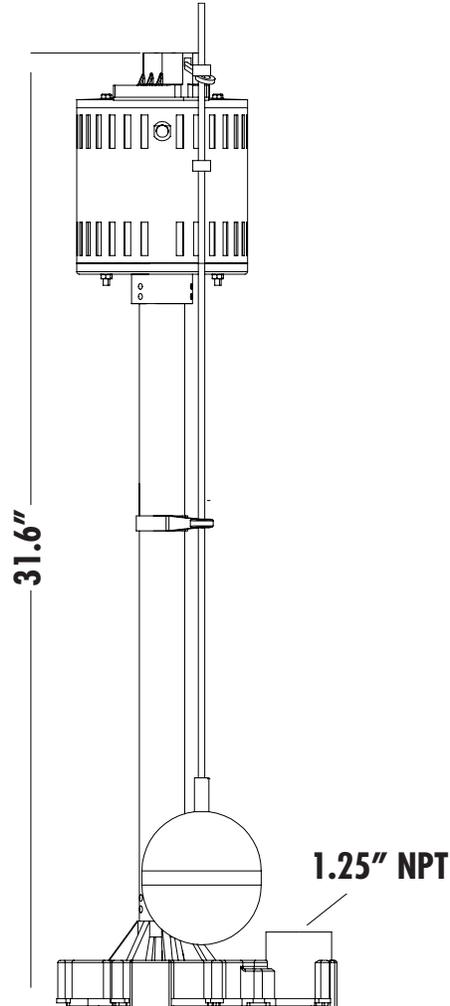


Pedestal Pumps Models: PED Series Specifications

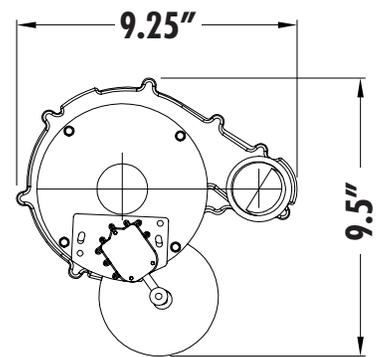
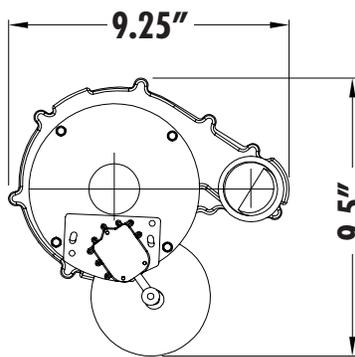
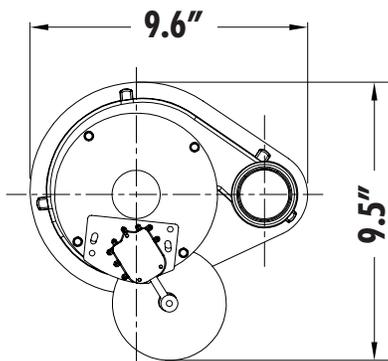
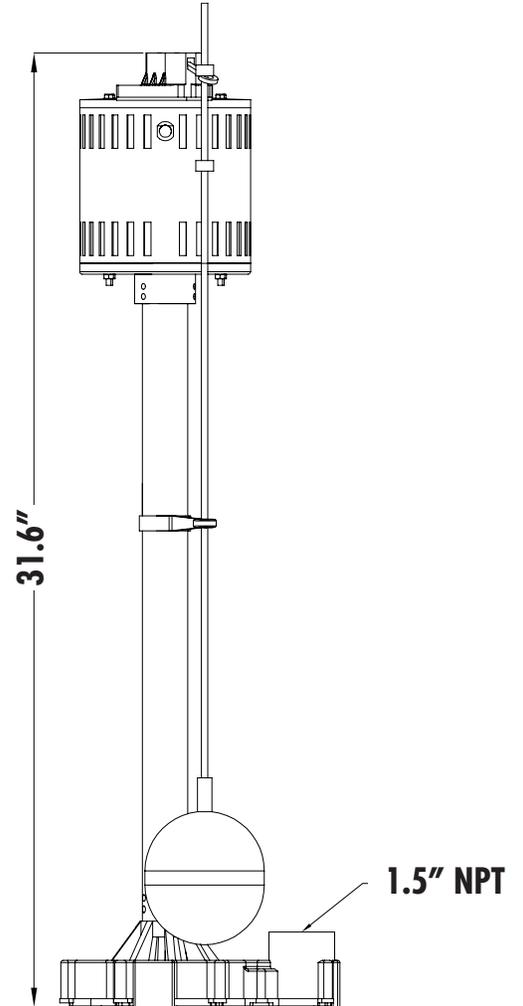
PED THERMOPLASTIC



PED BRONZE



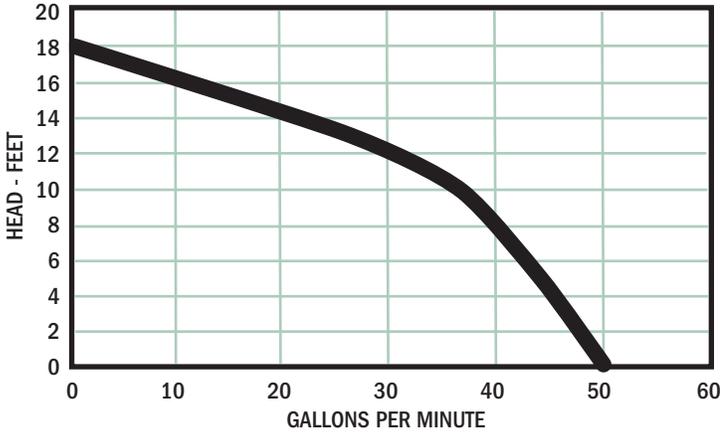
PED CAST IRON



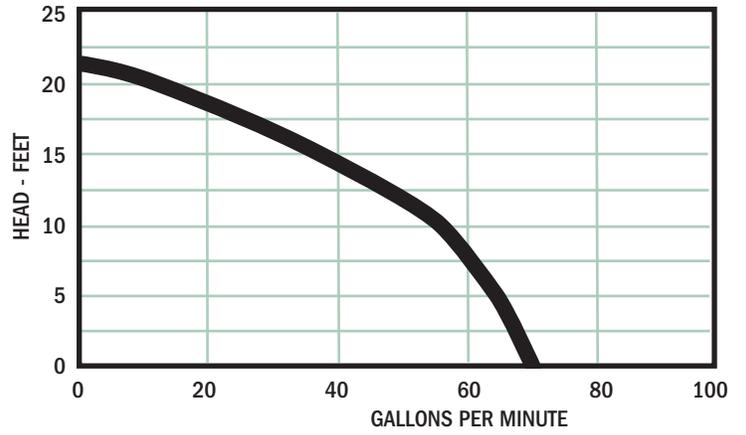


Pedestal Pumps Models: PED Series Performance

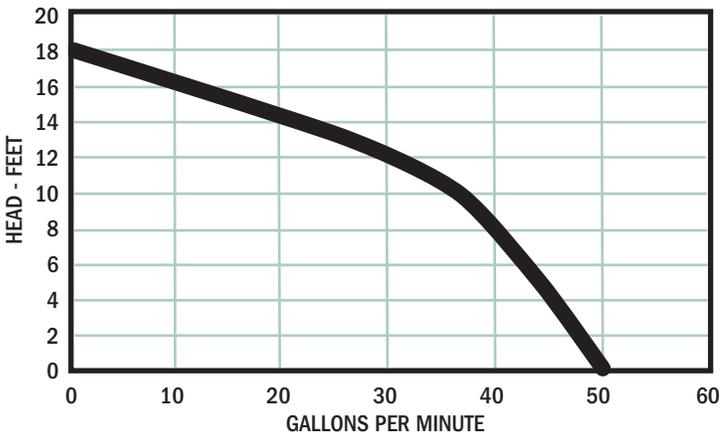
PED33 PERFORMANCE CURVE



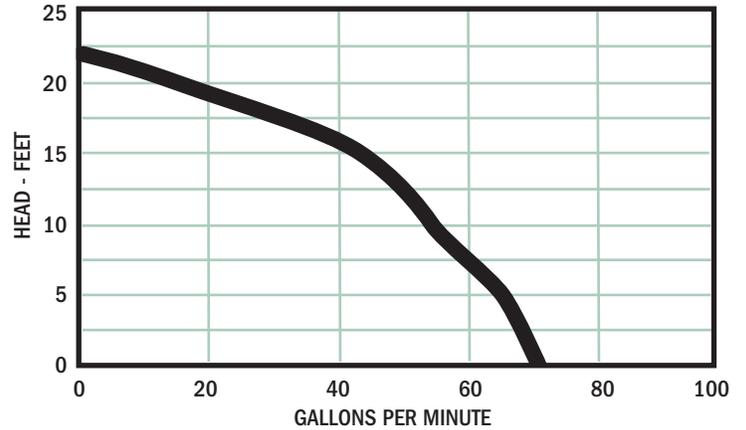
PED50 PERFORMANCE CURVE



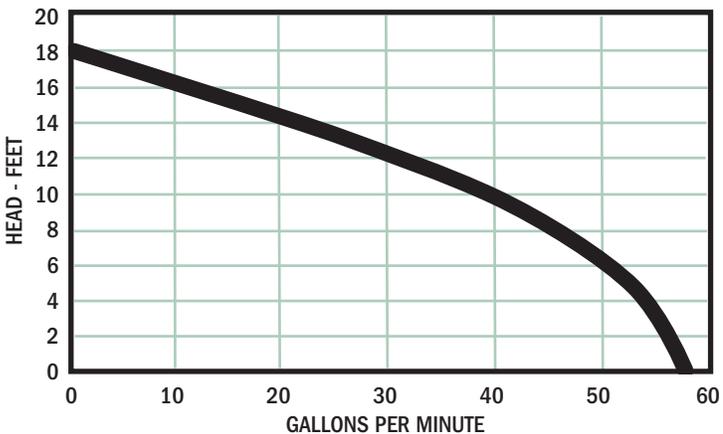
PED33B PERFORMANCE CURVE



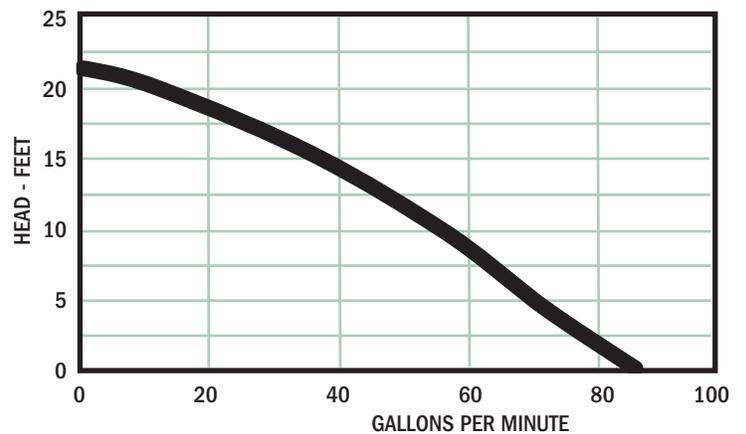
PED50B PERFORMANCE CURVE



PED33CI PERFORMANCE CURVE



PED50CI PERFORMANCE CURVE





Pedestal Pumps Models: PED Series Installation

Do not work on pump until power is unplugged.
Do not cut off ground pin or use an adapter fitting.
Do not use an extension cord.

The pump power cord should be connected to a separately fused, grounded line with a minimum capacity of 15 amps. It can be connected to non-fuse breaker at the recommended amperes.

1. Before installing or servicing this pump, be certain pump source is disconnected.
2. Installation and electrical wiring must adhere to state and local codes and must be completed before priming pump. Check appropriate community agencies, or contact local electrical and pump professionals.
3. Call an electrician when in doubt. Pump should be connected to a separate 15 amp circuit breaker or 15 amp fuse block.
Note that plugging into existing outlets may cause low voltage at motor. This could cause blown fuses, tripping of motor overload or burned out motor.
4. A permanent ground connection from pump to the grounding bar at the service panel is mandatory. These sump pumps come with a grounding conductor and a grounding-type attachment plug. Do not connect pump to a power supply until permanently grounded. For maximum safety, connect pump to a circuit equipped with a fault interrupter device when positioning the pump's grounding wire.
5. Voltage of power supply must match the voltage of the pump.
6. Before installing pump, clear sump basin of any water, debris or sediment.

⚠ WARNING Sump basin must be vented in accordance with local plumbing codes. These Sump pumps are not designed for and CANNOT be installed in locations classified as hazardous.

7. The following may cause severe damage to pump and will void the warranty.
 - (a) Using an extension cord.
 - (b) Cutting off the ground pin or using an adapter fitting.
 - (c) Working on pump or switch while plugged in.
 - (d) Removing motor housing, unscrewing impeller, or otherwise removing impeller seal.
 - (e) Running the pump continuously.
 - (f) Pumping chemicals or corrosive liquids.
 - (g) Pumping gasoline or other flammable liquids

8. Plastic PVC pipe can be installed in the outlet piping. Drain hose, galvanized steel or copper pipe may be used if desired. All piping must be clean and free of all foreign matter to prevent clogging.
9. Pump will be inadequate if suspension liquids contain solid particles larger than 3/16" for EPP or 3/8" for EPC.

ELECTRICAL WIRE CONNECTION

⚠ WARNING Verify that the voltage and frequency of the pump shown on the nameplate corresponds to those available on the mains. The installer must make sure that the electric system is grounded in accordance with code.

- For outdoor use it is necessary to use cable with a length of at least 8'. The plug and connection should be protected from water splashes. Before using the pump, always inspect it visually (especially power cable and plug).
- Do not use pump if it is damaged
- If the pump is damaged, have it inspected by an authorized service center.
- Make sure that electric connections are protected from flooding. Protect the plug and the power cable from heat or sharp edges.

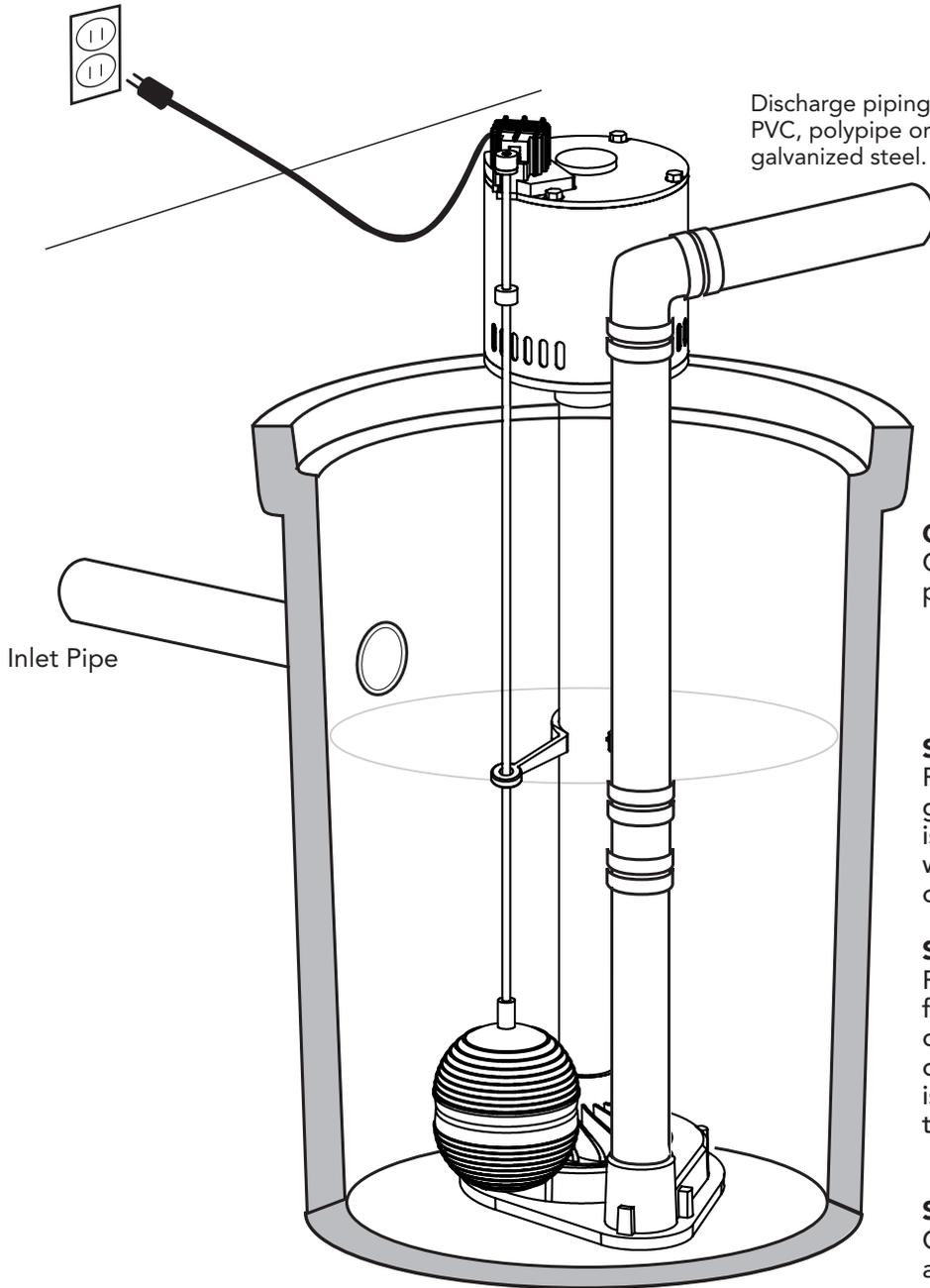
⚠ WARNING The power cable must be replaced by qualified personnel only. Grounding: The plug of the power cable has a double grounding contact, so that grounding can be performed by simply inserting the plug.

OVERLOAD PROTECTION

This pump series has a built in thermal protection switch. The pump stops if an overload condition occurs. The motor restarts automatically after it has cooled down.



Pedestal Pumps Models: PED Series Installation



CAUTION:

Check local codes before installing pump.

STEP 1:

Pump must be installed in a suitable gas tight, properly vented basin which is at least 24" deep and at least 14" wide for pumps fitted with vertical on/off switches.

STEP 2:

Pump must be placed on a hard surface in a sump that has been cleared of all debris. Never place the pump on clay, earth or gravel surfaces and it is suggested the pump be placed on two bricks approximately 2" apart.

STEP 3:

Connect the discharge pipe, fittings and check valve to the discharge port of the pump. It is recommended that the discharge pipe diameter be equal to or larger than the discharge size of the pump.



Pedestal Pumps Models: PED Series Troubleshooting



WARNING Before servicing a pump, always shut off the main power breaker and then unplug the pump. Make sure you are not standing in water and are wearing insulated protective sole shoes, under flooded conditions. Contact your local electric company or a qualified licensed electrician for disconnecting electrical service prior to pump removal

SYMPTOM	POSSIBLE CAUSES/SOLUTIONS
PUMP DOES NOT RUN AND MAKES HUMMING SOUND	<ul style="list-style-type: none">• Line circuit breaker is off, or fuse is blown or loose• Water level in sump has not reached turn-on level as indicated in installation drawing.• Pump cord is not making contact in receptacle.• Float is stuck. It should operate freely in basin.• If all of the above are OK, then the motor could be malfunctioning.
PUMP RUNS BUT DOES NOT DELIVER WATER	<ul style="list-style-type: none">• Check if valve is installed backwards. Arrow on valve should point direction of flow• Discharge shut-off valve (if used) may be closed.• Impeller or volute openings are fully or partially clogged. Remove pump and clean.• Pump is air-locked. Start and stop several times by plugging and unplugging cord. Check for clogged vent hole in pump case.• Inlet holes in pump base are clogged. Remove pump and clean the openings.• Vertical pumping distance is too high. Reduce distance or change the discharge fittings of the pump.
PUMP RUNS AND PUMPS OUT SUMP, BUT DOES NOT STOP	<ul style="list-style-type: none">• Float is stuck in up position. Be sure float operates freely in basin.• Defective float switch. Replace float switch.
PUMP RUNS BUT ONLY DELIVERS A SMALL AMOUNT OF WATER	<ul style="list-style-type: none">• Pump is air-locked. Start and stop several times by plugging in and unplugging cord. Check for clogged vent hole in pump case.• Vertical pumping distance is too high. Reduce distance or change the discharge fitting of the pump. Inlet holes in pump base are clogged. Remove pump and clean the strainer and openings.• Impeller or volute openings are fully or partially clogged. Remove pump and clean.• Pump impeller is partially clogged with tar or paint, causing motor to run slow and overload. Remove pump and clean.
FUSE BLOWS OR CIRCUIT BREAKER TRIPS WHEN PUMP STARTS	<ul style="list-style-type: none">• Pump impeller is partially clogged causing motor to run slow and overload. Remove pump and clean.• Motor stator may be defective.• Fuse size or circuit breaker may be too small. (must be 15 amps).• Impeller or volute opening are fully or partially clogged. Remove pump and clean .
MOTOR RUNS FOR A SHORT TIME, THEN STOPS	<ul style="list-style-type: none">• Inlet holes in pump base are clogged. Remove pump and clean the openings.• Pump impeller is partially clogged causing motor to run slow and overload. Remove pump and clean.• Motor stator may be defective.• Impeller or volute openings are fully or partially clogged. Remove pump and clean. Also clean the strainer if one is installed.



P U M P

Honest, Professional, Dependable

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