Your pump has been carefully packaged at the factory to prevent damage during shipping. However, occasional damage may occur due to rough handling. **Carefully inspect your pump** for damages that could cause failures. Report any damage to your carrier or your point of purchase.

Please read these instructions carefully. **Failure** to comply to instructions and **designed** operation of this system, may **void** the warranty.
Safety Instructions:
This fine pump that you have just purchased is designed from the latest in material and workmanship. Before installation and operation, we recommend the following procedures:

A) CHECK WITH YOUR LOCAL ELECTRICAL AND PLUMBING CODES TO ENSURE YOU COMPLY WITH THE REGULATIONS. THESE CODES HAVE BEEN DESIGNED WITH YOUR SAFETY IN MIND. BE SURE YOU COMPLY WITH THEM.

B) WE RECOMMEND THAT A SEPARATE CIRCUIT BE LEAD FROM THE HOME ELECTRICAL DISTRIBUTION PANEL PROPERLY PROTECTED WITH A FUSE OR A CIRCUIT BREAKER. WE ALSO RECOMMEND THAT A GROUND FAULT CIRCUIT BE USED. CONSULT A LICENSED ELECTRICIAN FOR ALL WIRING.

C) THE GROUND TERMINAL ON THE THREE PRONG PLUGS SHOULD NEVER BE REMOVED. THEY ARE SUPPLIED AND DESIGNED FOR YOUR PROTECTION.

D) NEVER MAKE ADJUSTMENTS TO ANY ELECTRICAL APPLIANCE OR PRODUCT WITH THE POWER CONNECTED. DO NOT ONLY UNSCREW THE FUSE OR TRIP THE BREAKER, REMOVE THE POWER PLUG FROM THE RECEPTACLE.

Monthly Mandatory check-up:
1. Inspect the pump for any obvious condition that necessitates cleaning, correction, adjustment or repair.
2. Clear the surrounding of any paper, leaves or other debris.
3. Assure that the pump is secure for proper operation.
4. Assure that there is adequate clearance from any combustible materials or structure. Stored materials must be kept away from the pump. Shelves or cabinet structures must not be in close proximity over the pump.
5. Assure that the motor is securely plugged into a proper GFCI electrical outlet
6. Test the GFCI outlet by pressing its test switch. This should prove that the outlet is energized and will trip off to protect against a ground fault. Be sure to reset the GFCI by pressing its reset switch.
7. Observe that the plumbing can carry the water safely into the residence.

Material required for drilled well application (indoor use only)

Shallow well pump installation
- Desired length of polyethylene 1” pipe, 100 PSI, CSA or UL approved, to link up from pumping level to pump.
- 1 1” foot valve (750756 or 750752P).
- 1 well seal, as per well casing diameter (750929 6” x 1”).
- 1 1” well seal elbow (750860).
- 1 1” male adaptor (750865 or 750871) and 1 1¼” to 1” male adaptor (150181).
- 8 1” stainless steel clamps (750885).
- Teflon tape.

Deep well pump installation
- Desired length of polyethylene 1” and 1¼” pipe, 100 PSI, CSA or UL approved, to link up from pumping level to pump.
- 1 1¼” foot valve (750757 or 750753P).
- 1 well seal, as per well casing diameter (750926 6” x 1¼” x 1”).
- 1 1” well seal elbow (750860).
- 1 1¼” well seal elbow (750861).
- 1 1¼” venturi adaptor (750864).
- 2 1” male adaptors (750865 or 750871) and 1 1¼” male adaptor (750866 or 750872).
- 8 1” stainless steel clamps (750885).
- 8 1¼” stainless steel clamps (750886).
- Teflon tape.

Tools
Screwdrivers, hacksaw to cut pipe, knife to assist in pipe cutting, round file to smooth pipe ends, pipe wrench, adjustable wrench to tighten fittings, propane torch and welding material.
APPLICATION

(503132S and 503232S)

- This pump is designed for shallow well installation for water levels no deeper than 25 feet.

- CAPACITY:

<table>
<thead>
<tr>
<th>Depth</th>
<th>1/2 HP</th>
<th>3/4 HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>5'</td>
<td>815</td>
<td>865</td>
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<tr>
<td>10'</td>
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<td>575</td>
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<tr>
<td>25'</td>
<td>500</td>
<td>530</td>
</tr>
</tbody>
</table>

**FEATURES**

- Easy to prime pump body.
- Totally enclosed, fan cooled motor, bearing to bearing. Built for a continuous use.
- Full time connected run capacitor, to eliminate starting wear vs regular motor.
- Thermal and overload protection.
- Noryl impeller, built-in injector
- 1/2 HP, 115 / 230 VAC, 60 Hz, 8.6 A / 4.3 A (at start: 15 A / 7.5 A).
- 3/4 HP, 115 / 230 VAC, 60 Hz, 8.8 A / 4.4 A. (at start: 15 A / 7.5 A).

**INSTALLATION STEPS**

**STEP 1**

We recommend that you install your pump in a clean and dry location where there is adequate room for servicing at a later date. Protection from freezing temperatures and good ventilation should be considered as well, to provide the pump an environment for long life. Locating the pump as close as possible to the water source will reduce friction losses encountered in the suction pipe.

Friction losses in the suction pipe must be taken into consideration when the horizontal offset is greater than 50 feet. The suction pipes should be increased from 1” to 1 1/4”. This will reduce friction losses and allow the pump to give maximum performance.

A new well should be checked to determine that it is free from sand. Sand will damage the seal and the impeller. Have your well driller clean the well before your installation.

*Never run the pump dry.* Damage to the seal may occur. Fill pump body and suction pipe with water before turning on the power.

**VERY IMPORTANT**

Please be advised that the Fluomac Electronic unit is a state of the art product and will give you years of trouble free service. However, if the unit cycles "ON and OFF", this means there is a leakage in your plumbing. For example: A toilet leak, the leakage must be repaired to maintain the system pressure.

Furthermore, if you are pumping water from a sand point or if you have indication that your well may contain sand, a sand filter must be installed in the suction of the pump.

Sand will damage the unit, due to its abrasive nature and will void warranty. For more information, we are enclosing a brochure on our Sand Filter model # 750896, which is available from any Burke Retailers or Wholesalers. In the meanwhile, if you have any questions concerning your pump, please contact us on our toll free number 1-800-361-1820 before returning the pump to the point of purchase.

The above conditions are not on warranties. The warranty covers manufacturing defects only.
Cut the desired length of poly pipe to run from the top of the well to the pumping level. Smooth the pipe cuttings with your round file. (Check that no cut-out parts are left inside of pipe. This may block pump injector or impeller). Tape male adaptor threads with teflon tape and thread adaptor into the foot valve. Slide 2 stainless steel clamps over one end of pipe and use torch to soften pipe. Insert the male adaptor and foot valve into this pipe end. Tighten clamps with screwdriver when cool. For security against leaks, we suggest to install 2 stainless steel clamps on each adaptor.

Insert the well seal elbow through the opening of the seal. Slide 2 stainless steel clamps over the free end of the previously cut pipe and soften pipe with your torch. Attach pipe to the well seal elbow (end protruding at bottom of well seal). Tighten clamps with screwdriver when cool.

Install the well seal and piping assembly into your well casing. Tight down the well seal bolts using your adjustable wrench.

To facilitate servicing at a later date, you may use a pitless adaptor and a sealed well cap instead of an elbow and a well seal as describe in steps 3 and 4.

Install your pump in the house, on a sound foundation, as close as possible to the basement wall. Locate the suction inlet in the front of the pump. Thread an adaptor into inlet using teflon tape. Do not over tighten.

Cut the desired length of pipe from pump location to the well seal and connect both ends using the previous way, with stainless steel clamps and torch. Before connecting your pipe to the pump, fill the suction line with water. Do not fill in your trench to the house until you have checked for any leaks in your connections or trouble in your water system.

Sand or well points are limited to areas where water bearing sand or gravel lies below the surface, and where there are no boulders or rocks to interfere with the driving into the ground of the point. The amount of water any “one” well point will supply is usually rather limited. Sometimes, it is necessary to use more than one point to increase the supply of water, entering to the pump’s suction.

THE IMPORTANT INSTALLATION STEP IN USING WELL POINTS IS THAT A CHECK VALVE MUST BE USED IN THE SUCTION PIPE LEADING TO THE SUCTION INLET, AS close to the pump as possible, to keep suction line and pump well primed.
**SHALLOW WELL APPLICATION**

**STEP 2** Cut poly pipe and install the check valve.

**STEP 3** Insert well seal elbow through the seal and attach to pipe.

**STEP 4** Install well seal and piping into well casing.

**STEP 5** Install your pump and thread an adaptor into inlet.

**STEP 6** Cut poly pipe and connect both ends.

**STEP 7** You may install one or more sand points to increase the supply of water.

Well point optional installation

Check valve, close to pump.
PLEASE, FOLLOW THESE STEPS TO EASILY PRIME YOUR PUMP.

**STEP 8**
Connect your discharge line, using a ball valve, as illustrated. (Photo 1)

**STEP 9**
Fill the suction line with water and connect it to the suction inlet. (Photo 1)

**STEP 10**
Remove the plug of the priming pipe and fill the pump body with water. (Photo 1)

**STEP 11**
Screw the plug to the priming pipe using teflon tape. (Photo 2)

**STEP 12**
Connect the pump. The pump should delivered water to the plumbing line within 30 seconds. If not, unplug the pump and repeat from step 10. In accordance with the length of your suction line, you may have to repeat these steps a few times.

**NOTE:** After installation, if the pump is cycling “on-off” and/or comes on when you are not visibly using water, the pump is not defective. It means you have a leak on the discharge side of the pump. The leak must be localised and needs to be repaired. If you need assistance to determine same, please call 1 800-361-1820. The pump is warrantied by the manufacturer and you must call us to determine procedures. The pump can not be returned to the point of purchase without our prior consent.
NEVER RUN THE PUMP DRY

STEP 1 To use this pump for pressure boosting, read carefully the instructions for shallow well application, then connect the pump to your water supply as per the pictures on right.

STEP 2 Use appropriate union (not shown) to connect pipes for an easy service at a later date.

STEP 3 If your incoming pressure is higher than 20 PSI, install a pressure reducer (not shown) between the ball valve #1 and the pump, setted to 20 PSI. This will prevent an excess of pressure on the house distribution piping.

STEP 4 Install a pressure gauge as per the pictures on the right, to monitor the pressure in piping.

STEP 5 Set the ball valves as per “to operate the pump” picture. Open the nearest faucet and connect the pump to an electrical outlet.

STEP 6 When all the air will be remove from the piping, close the faucet. The pump will stop after 7 to 10 seconds. Then, it will turn on when a faucet is open.

WARNING
In a booster pump application the incoming pressure must never be higher than 20 to 25 PSI.
Important notice:

For the models 503332 and 503732, the priming instructions and the booster pump application are identical to the models 503132S and 503232S.

Refer to pages 7 and 8.

Your ejector is factory pre-assembled with the venturi 510066.2, for an optimum performance when the pumping level is between 25' to 60' (7.5 meters to 18 meters) depth, in reference to the pump position. So, this is a deep well application mode. The ejector is positioned into the well and is connected to the pump using 2 pipes (see page 13).

If the pumping level is deeper than 60' (18 meters) in reference to the pump position, it is mandatory to unscrew the pre-assembled venturi and to replace it by the venturi 510066.3, also as a deep well mode application with the ejector positioned into the well.

In the case of a pumping level lower than 25' (7.5 meters), unscrew the pre-assembled venturi and replace it by the venturi 510066.1. Then screw the ejector to the pump body. This becomes a shallow well mode application where only one pipe is required to pump water (see page 11).

Use the included flow control valve to connect your pump to your home plumbing distribution pipe system. Install this valve to the pump discharge and close the valve completely by turning the top screw clockwise. Then, turn the screw counter-clockwise for one turn only and proceed to the following priming process of the pump.

Follow all these inside step by step instructions to install your pump. Use teflon tape on all threads. (1) Install the pump discharge fittings as illustrated. (2) Fill the suction line with water and connect it to the suction inlet. (3) Remove the priming plug and fill the pump body with water. (4) Screw the plug to the priming inlet. (5) Connect the pump to the receptacle. The pump should deliver water to the plumbing line within 30 seconds. If not, unplug the pump and repeat the process at step 3.

After priming the pump, you can adjust the flow control valve to obtain the best performance of the pump. Remember that when you open this valve, you reduce the suction capacity. This valve is used to balance the discharge flow with the suction requirement. The deeper your suction distance, the more closed the valve should be for optimum performance.
APPLICATIONS

(503332 and 503732)

• This pump is designed for shallow well installation for water level up to 25 feet, with injector screwed on pump body; or for deep well installation for water level up to 85 feet, with 2 pipes and injector down in the well.

• CAPACITY AT 20 PSI.

<table>
<thead>
<tr>
<th></th>
<th>SHALLOW WELL</th>
<th>DEEP WELL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1/2 HP</td>
<td>3/4 HP</td>
</tr>
<tr>
<td>5'</td>
<td>900</td>
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<td>450</td>
<td>500</td>
</tr>
<tr>
<td>25'</td>
<td>300</td>
<td>350</td>
</tr>
</tbody>
</table>

|             | 1/2 HP       | 3/4 HP    |
| 30'         | 500          | 525       |
| 40'         | 400          | 425       |
| 50'         | 300          | 325       |
| 80'         | 150          | 175       |

US GPH US GPH

FEATURES

• High performance noryl impeller..

• Industrial motor totally enclosed, fan cooled.

• Full time connected run capacitor, to eliminate starting wear vs regular motor.

• Thermal and overload protection.

• Built for a continuous use.

• 1/2 HP, 115/230 VCA, 60 Hz, 8.6 A/4.3 A.

• 3/4 HP, 115/230 VCA, 60 Hz, 8.8 A/4.4 A.

(at start: 15 A/7.5 A)

FRICTION LOSS IN PIPE NOT INCLUDED.

INSTALLATION STEPS

We recommend that you install your pump in a clean and dry location where there is adequate room for servicing at a later date. Protection from freezing temperatures and good ventilation should be considered as well, to provide the pump an environment for long life. Locating the pump as close as possible to the water source will reduce friction losses encountered in the suction pipe.

Friction losses in the suction pipe must be taken into consideration when the horizontal offset is greater than 50 feet. The suction pipes should be increased from 1” to 1\(\frac{1}{4}\)”. This will reduce friction losses and allow the pump to give maximum performance.

A new well should be checked to determine that it is free from sand. Sand will damage the seal and the impeller. Have your well driller clean the well before your installation.

Never run the pump dry. Damage to the seal may occur. Fill pump body and suction pipe with water before turning on the power.

VERY IMPORTANT

Please be advised that the Fluomac Electronic unit is a state of the art product and will give you years of trouble free service. However, if the unit cycles “ON and OFF”, this means there is a leakage in your plumbing. For example: A toilet leak, the leakage must be repaired to maintain the system pressure.

Furthermore, if you are pumping water from a sand point or if you have indication that your well may contain sand, a sand filter must be installed in the suction of the pump.

Sand will damage the unit, due to its abrasive nature and will void warranty. For more information, we are enclosing a brochure on our Sand Filter model # 750896, which is available from any Burke Retailers or Wholesalers. In the meanwhile, if you have any questions concerning your pump, please contact us on our toll free number 1-800-361-1820 before returning the pump to the point of purchase.

The above conditions are not on warranties. The warranty covers manufacturing defects only.

THE RUN OF HORIZONTAL PIPE FROM THE TOP OF YOUR WELL INTO THE HOUSE, WHERE YOUR PUMP WILL BE LOCATED, MUST BE INSTALLED IN A TRENCH, BELOW THE FROST LEVEL OF YOUR AREA.
Cut the desired length of poly pipe to run from the top of the well to the pumping level. Smooth the pipe cuttings with your round file. (Check that no cut-out parts are left inside of the pipe. This may block pump injector or impeller). Tape male adaptor threads with teflon tape and thread adaptor into the foot valve. Slide 2 stainless steel clamps over one end of the pipe and use torch to soften pipe. Insert the male adaptor and foot valve into this pipe end. Tighten clamps with screwdriver when cool. **For security against leaks, we suggest to install 2 stainless steel clamps on each adaptor.**

Insert the well seal elbow through the opening of the seal. Slide 2 stainless steel clamps over the free end of the previously cut pipe and soften pipe with your torch. Attach pipe to the well seal elbow (end protruding at bottom of well seal). Tighten clamps with screwdriver when cool.

Install the well seal and piping assembly into your well casing. Tight down the well seal bolts using your adjustable wrench. **To facilitate servicing at a later date, you may use a pitless adaptor and a sealed well cap instead of an elbow and a well seal as describe in steps 3 and 4.**

Install your pump in the house, on a sound foundation, as close as possible to the basement wall. Locate the suction inlet in the front of the injector. Thread an adaptor into inlet using teflon tape. Do not over tighten.

Cut the desired length of pipe from pump location to the well seal and connect both ends using the previous way, with stainless steel clamps and torch. **Do not fill in your trench to the house until you have checked for any leaks in your connections or trouble in your water system.**

Sand or well points are limited to areas where water bearing sand or gravel lies below the surface, and where there are no boulders or rocks to interfere with the driving into the ground of the point. The amount of water any “one” well point will supply is usually rather limited. Sometimes, it is necessary to use more than one point to increase the supply of water, entering to the pump’s suction.

**THE IMPORTANT INSTALLATION STEP IN USING WELL POINTS IS THAT A CHECK VALVE MUST BE USED IN THE SUCTION PIPE LEADING TO THE SUCTION INLET, AS CLOSE TO THE PUMP AS POSSIBLE, TO KEEP SUCTION LINE AND PUMP WELL PRIMED.**
SHALLOW WELL APPLICATION

STEP 2 Cut poly pipe and install the check valve.

STEP 3 Insert well seal elbow through the seal and attach to pipe.

STEP 4 Install well seal and piping into well casing.

STEP 5 Install your pump and thread an adaptor into inlet.

STEP 6 Cut poly pipe and connect both ends.

STEP 7 You may install one or more sand points to increase the supply of water.

Well point optional installation

Check valve, close to pump.
Locate your injector body in your package. Using teflon tape, screw the 1¼” venturi adaptor over the injector venturi (black tube), into the 1¼” opening of injector body. Install the 1” male thread adaptor in the 1” opening in injector body. Securely tighten both adaptors with pipe wrench.

With teflon tape on threads, install a 1¼” nipple into the 1¼” foot valve, then screw this assembly into the 1¼” bottom opening of the injector.

Cut the desired length of 1” and 1¼” poly pipes to run from the top of the well to the pumping level. Smooth the pipe cuttings with your round file. (Check that no cut-out parts are left inside of the pipe. This may block pump injector or impeller). Slide 2 stainless steel clamps over one end of each pipe and use torch to soften pipe. Fix the 1” and 1¼” pipes respectively on the 1” adaptor and 1¼” venturi adaptor. Tighten clamps with screwdriver when cool. **For security against leaks, we suggest to install 2 stainless steel clamps on each adaptor.**

Insert both well seal elbows through their opening of the seal. Slide 2 stainless steel clamps over the free ends of the previously cut pipes and soften pipes with your torch. Attach pipes to the well seal elbows (ends protruding at bottom of well seal). Tighten clamps with screwdriver when cool.

To facilitate servicing at a later date, you may use a pitless adaptor and a sealed well cap instead of an elbow and a well seal as describe in steps 3 and 4.

Install the well seal and the injector piping assembly into your well casing. Tight down the well seal bolts using your adjustable wrench.

Install your pump in the house, on a sound foundation, as close as possible to the basement wall. Locate the openings in the front of the pump body. Thread respectively 1” and 1¼” adaptors into corresponding openings using teflon tape. Do not over tighten.

Cut the desired length of pipes from pump location to the well seal and connect both ends using the previous way, with stainless steel clamps and torch. **Do not fill in your trench to the house until you have checked for any leaks in your connections or trouble in your water system.**
DEEP WELL APPLICATION

**STEP 2** Screw 1¼" venturi adaptor and 1" adaptor into injector body.

**STEP 3** Install 1¼" nipple into 1¼" foot valve, then screw in injector.

**STEP 4** Cut 1" and 1¼" poly pipes.

**STEP 5** Insert well seal elbows thru the seal and attach to pipe.

**STEP 6** Install well seal and piping into well casing.

**STEP 7** Install your pump and thread adaptors into their respective opening.

**STEP 8** Cut 1" and 1 ¼" poly pipes and connect both ends.
## Repair Parts

<table>
<thead>
<tr>
<th>Ref</th>
<th>Parts Descriptions</th>
<th>Ref</th>
<th>Parts Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>510054 Motor 1/2 HP</td>
<td>11</td>
<td>510069 Venturi</td>
</tr>
<tr>
<td>1</td>
<td>510054-2 Motor 3/4 HP</td>
<td>12</td>
<td>510046 Nozzle</td>
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<td>510055 Motor Screws (4)</td>
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<td>510045 Pump Body</td>
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<tr>
<td>3</td>
<td>510053 Seal Plate O-Ring</td>
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<td>750769 1/4&quot; Pressure Gauge (not shown)</td>
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<td>4</td>
<td>510052 Mechanical Seal</td>
<td>15</td>
<td>510077 Capacitor (not shown)</td>
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<td>5</td>
<td>510048 Impeller</td>
<td>16</td>
<td>506375 SS Priming tube</td>
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<tr>
<td>6</td>
<td>510047 Diffuser</td>
<td>17</td>
<td>506377 Priming plug and washer</td>
</tr>
<tr>
<td>7</td>
<td>510065 Diffuser Plate</td>
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<td>506376 Discharge fitting</td>
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<td>9</td>
<td>510050 Diffuser Plate Washers (3)</td>
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<td>510049 Diffuser Plate Screws (3)</td>
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</table>

Repair parts may be ordered from your authorized point of sale or from BUR-CAM PUMPS.
## REPAIR PARTS

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<td>510066.1 Short Venturi</td>
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<td>1</td>
<td>510054-2 Motor 3/4HP</td>
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<td>510066.2 Long Venturi (25'-60')</td>
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<td>13</td>
<td>510061 Ejector Gasket</td>
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</table>

Repair parts may be ordered from your authorized point of sale or from BUR-CAM PUMPS.
**TROUBLE SHOOTING GUIDE CHECKLIST**

Never make adjustments to any electrical appliance or product with the power connected. Don’t just unscrew the fuse or trip the breaker, remove the power from the receptacle.

<table>
<thead>
<tr>
<th>TROUBLE</th>
<th>PROBABLE CAUSE</th>
<th>ACTION</th>
</tr>
</thead>
</table>
| Motor does not run. | Switch is off position  
Blown fuse  
Tripped breaker  
Dirty pressure switch  
Defective pressure switch  
Defective motor | Turn switch to on position  
Replace  
Reset  
Clean  
Replace  
Replace |
| Motor runs but no water is delivered. | Pump not primed  
Leaky suction line  
Foot valve plugged  
Ejector nozzle clogged  
Water level below foot valve  
Suction lift to great  
Improper voltage | Prime with clean water  
Check pipe and pipe connections  
Clean  
Clean  
Check foot valve level  
Water level lower than lift capacity  
Check voltage |
| Pump does not deliver to full capacity. | Water level below foot valve  
Ejector nozzle clogged  
Excessive friction in pipe  
Improper voltage | Check foot valve level  
Clean  
Too small or dirty pipe  
Check voltage |
| Pump does not shut off. | Leaky discharge line  
Motor not up to normal speed  
Improper setting of pressure switch  
Ejector nozzle clogged | Check all pipes for leak  
Check power cable and voltage  
Reset or replace  
Clean |
| Pump starts and stop too often. | Pressure tank waterlogged  
Leaky foot valve  
Leaky suction line  
Foot valve do not close properly  
Pressure switch out of adjustment  
Leaky discharge line (toilet etc.) | Drain tank and restart  
Replace  
Check pipe and pipe connections  
Clean or replace  
Adjust on/off setting  
Check all pipes for leak |
| Air spurts from fawcets. | Leaky suction line  
Gaz in water  
Airlogged tank (galvanized) | Check pipe and pipe connections  
Check and consult factory  
Replace air volume control |

**TO THE END CONSUMER**

If you have any problems with the product, before advising the store, where you’ve purchased the pump, please contact us at 514 337-4415, and ask for our sales department, and they will be pleased to help you with any questions you might have, concerning your installation.