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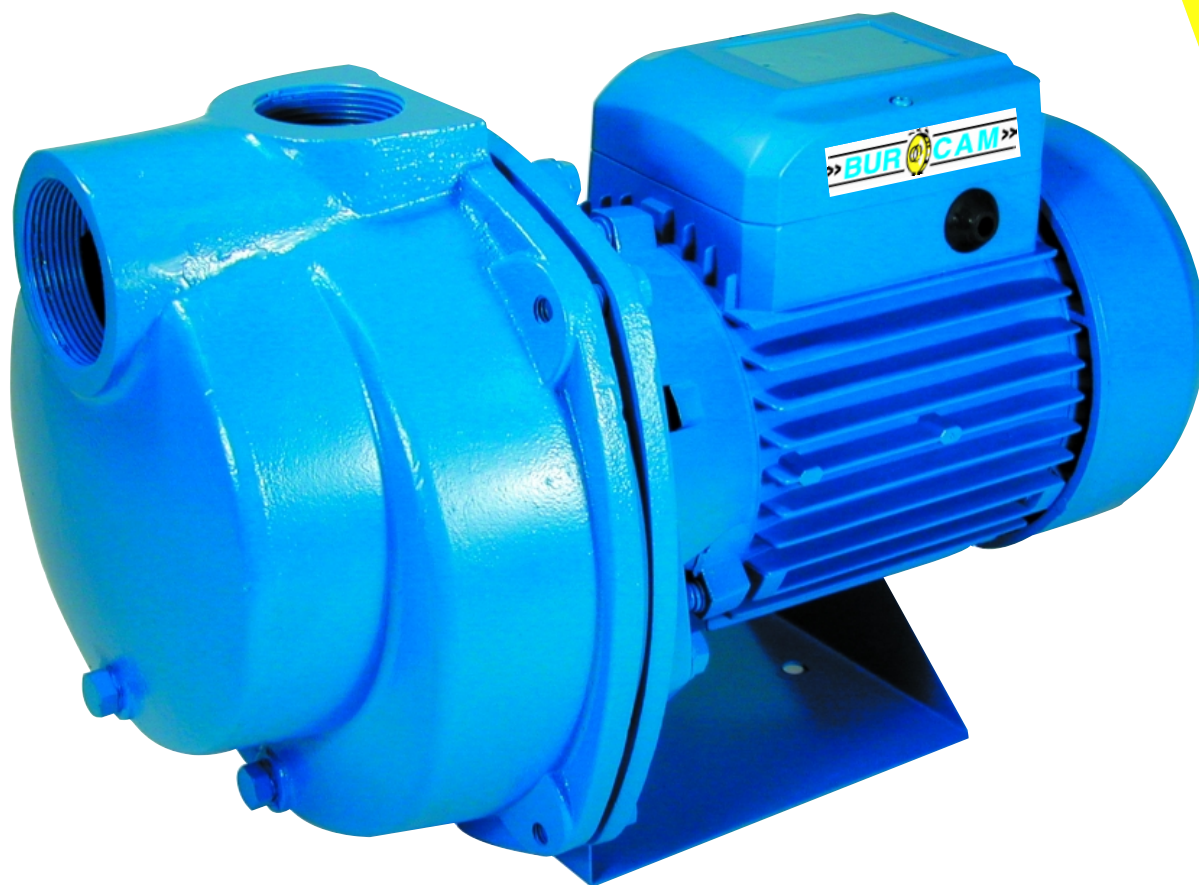
# INSTALLATION INSTRUCTIONS

## MODEL 700506

### SPRINKLER PUMP

Please read these instructions carefully. **Failure** to comply to instructions and **designed** operation of this system, may **void** the warranty.

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.



# 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.

## Material required for drilled well application

### Pump installation

#### **Suction line**

- ☐ Desired length of polyethylene 2" pipe CSA or UL approved, to link up from pumping level to pump.
- ☐ 1 2" foot valve (750759).
- ☐ 2 2" male adaptors.
- ☐ 4 2" stainless steel clamps.
- ☐ Teflon tape.

### Pump installation

#### **Discharge line**

- ☐ Desired length of polyethylene 1 1/2" pipe, 100PSI, CSA or UL approved.
- ☐ 1 1/2" male adaptors.
- ☐ Teflon tape.
- ☐ Desired quantity of sprinkler for irrigation.

### 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

- ☐ This pump is designed to be used with automatic sprinkler systems.
- ☐ Ideal for lakes, ponds, for residential, farm and cottage use

☐ Capacity at 20 PSI:

<b>Suction</b>	<b>700506</b>
	1.5 HP
5'	3720 US GPH
10'	3600 US GPH
15'	3300 US GPH
20'	3000 US GPH

FRICION  
LOSS IN PIPE  
NOT INCLUDED

## FEATURES

- ☐ Self priming large pump body nationally known mechanical seal (2000).
- ☐ Thermally protected motor, stainless steel shaft, bearing to bearing.
- ☐ Capacity up to 25 sprinklers, 80 GPM US maximum flow, 110' maximum head.

## TYPICAL INSTALLATION DIAGRAM

see page 6

## 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 2" to 2 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.

THE RUN OF HORIZONTAL PIPE FROM THE TOP OF YOUR WELL TO THE PUMP MUST BE INSTALLED IN A TRENCH, BELOW THE FROST LEVEL OF YOUR AREA, FOR A YEAR ROUND APPLICATION.

## STEP 2

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 the 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.**

## STEP 3

Insert the well seal elbow thru 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.

## STEP 4

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 described in steps 3 and 4.

## STEP 5

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

## STEP 6

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 until you have checked for any leaks in your connections or trouble in your water system.

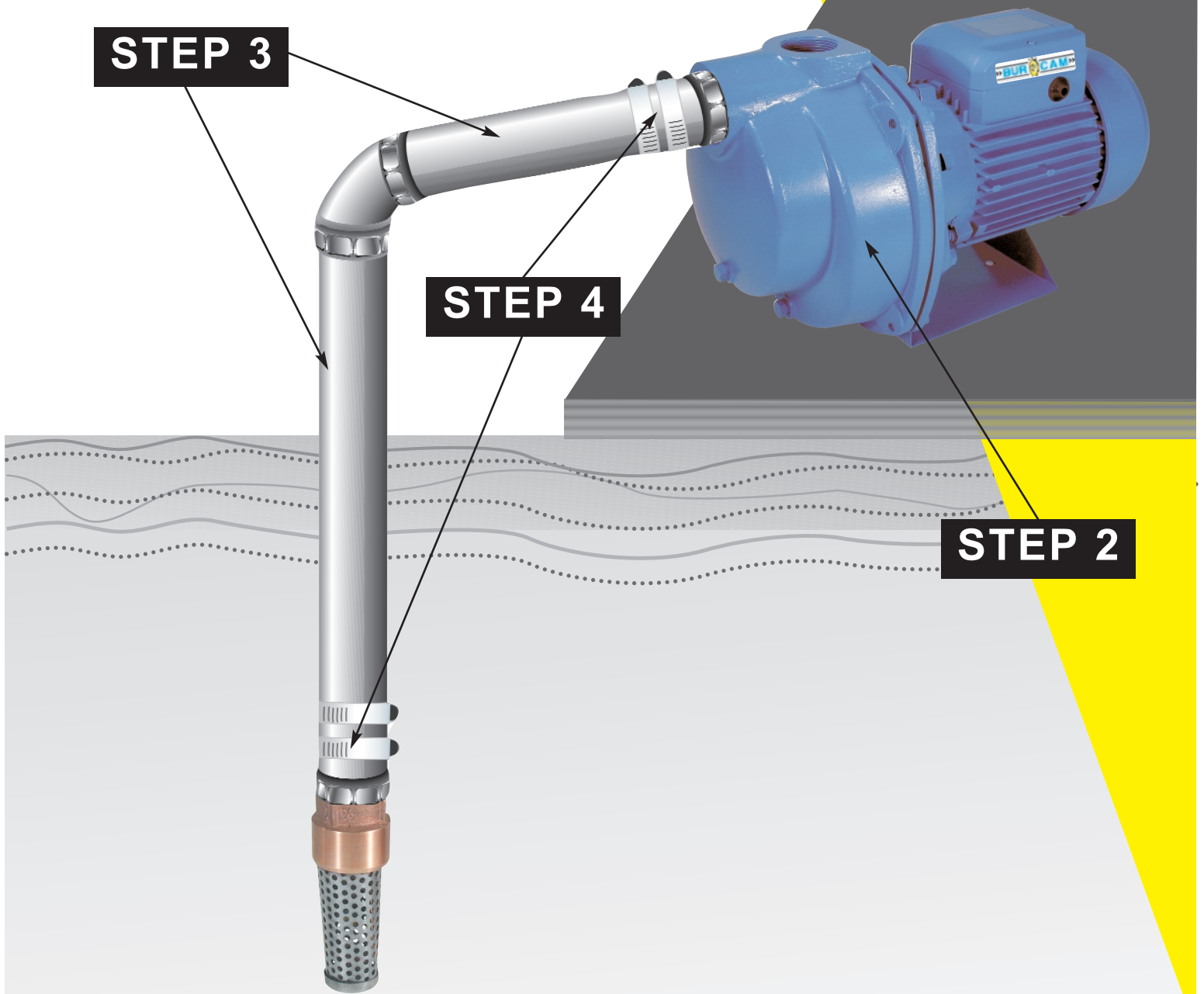
## STEP 7 For sand or well points

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.

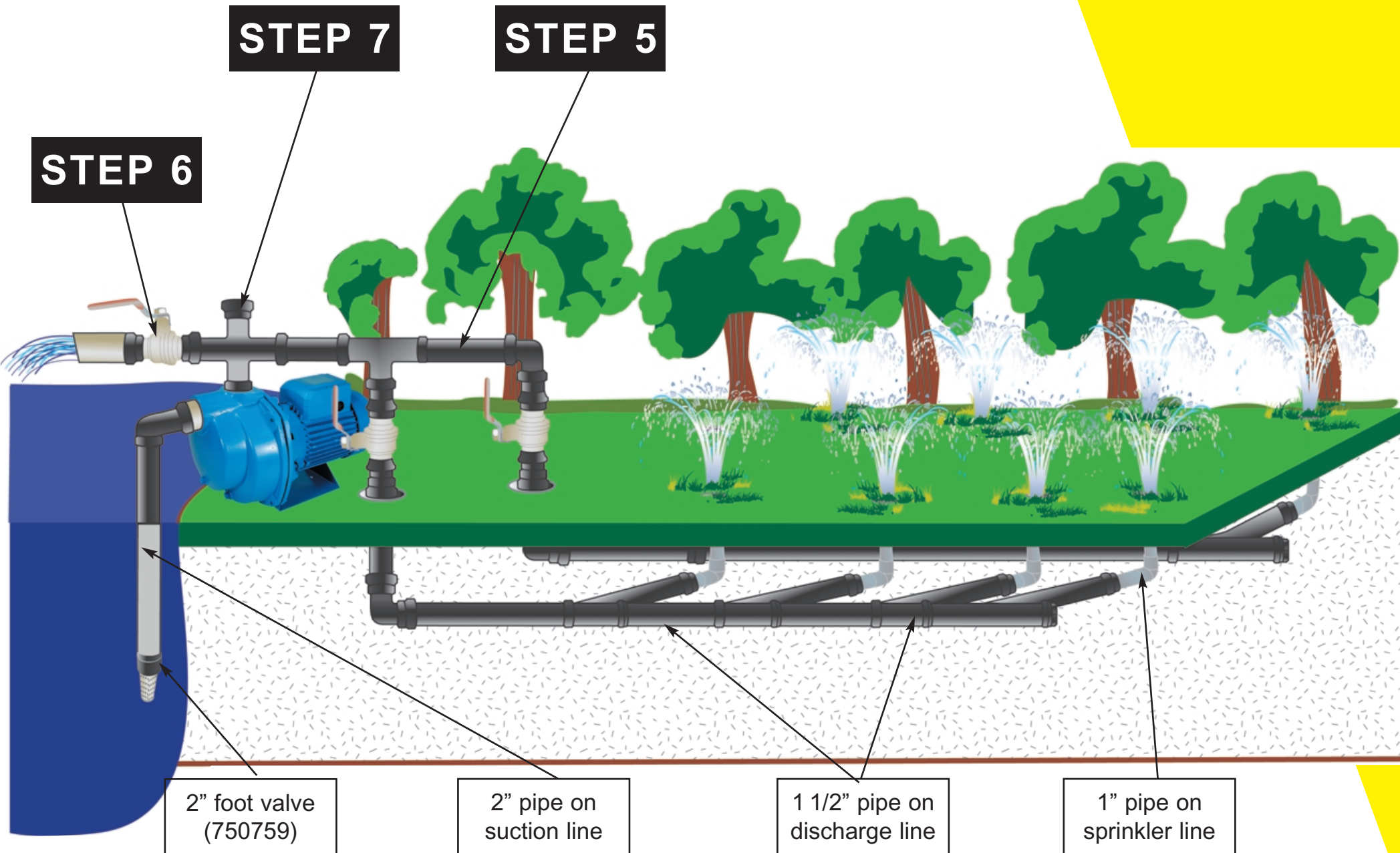
The amount of water any "one" well point will supply is usually rather limited. Sometimes, it is necessary to use more than one point to increase the supply of water entering to the pump's suction.

**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.**

# TYPICAL PUMPING INSTALLATION DIAGRAM

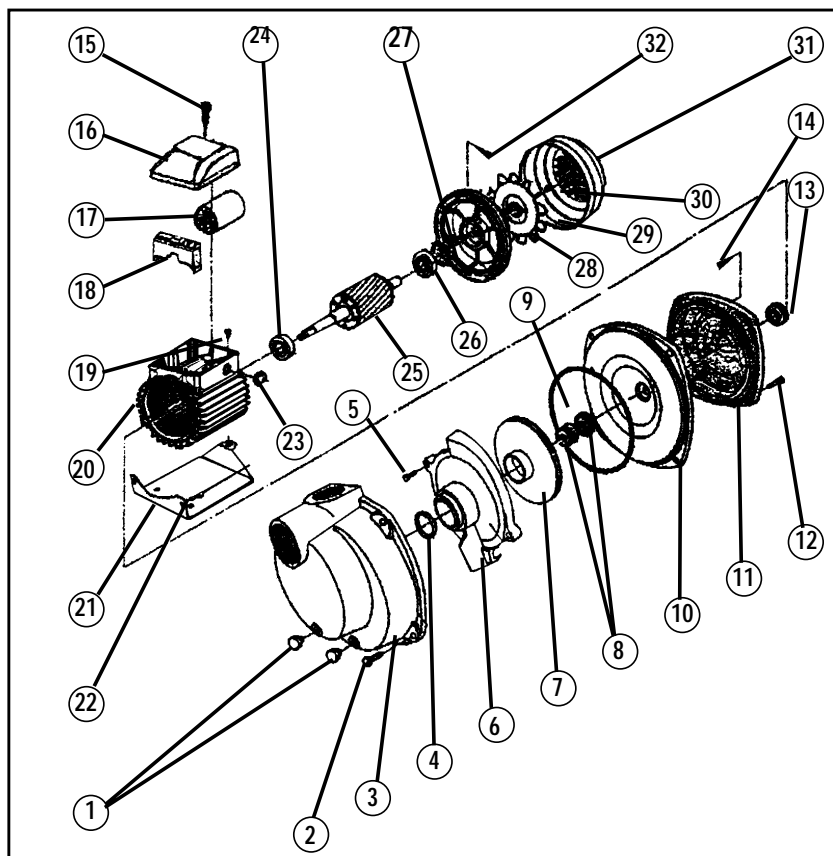


# TYPICAL INSTALLATION DIAGRAM



# REPAIR PARTS

REF	ITEM	DESCRIPTON	REF	ITEM	DESCRIPTON
1	710830	Drain plug	18	710847	Capacitor junction box
2	710831	Pump body screw	19	710848	Ground screw
3	710832	Pump body	20	710862	Stator (1.5 HP)
4	710833	Diffuser "O" ring	20	710849	Stator (2 HP)
5	710834	Diffuser screw	21	710850	Base screw
6	710835	Diffuser	22	710851	Base screw
7	710836	Impeller	23	710852	Cable gland
8	710837	Mechanical seal	24	450348	Pump side bearing
9	710838	Pump body "O" ring	25	710863	Rotor (1.5 HP)
10	710839	Seal plate	25	710854	Rotor (2 HP)
11	710840	Pump bracket	26	450348	Fan side bearing
12	710841	Pump bracket screw	27	710856	Wavy washer
13	710842	Sand slinger	28	710857	Motor end cover
14	710843	Bracket to motor screw	29	710858	Motor fan
15	710844	Box cover screw	30	710859	Snap ring
16	710845	Junction box cover	31	710860	Fan cover
17	710846	Capacitor	32	710861	Motor end screw



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.

TROUBLE	PROBABLE CAUSE	ACTION
Motor does not run.	Switch is off position Blown fuse Tripped breaker Defective motor	Turn switch to on position Replace Reset Replace
Motor runs but no water is delivered.	Pump not primed Leaky suction line Foot valve plugged Water level below foot valve Suction lift to great Improper voltage	Prime with clean water Check pipe and pipe connections 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 Excessive friction in pipe Improper voltage	Check foot valve level Too small or dirty pipe Check voltage
Air spurts from faucets.	Leaky suction line Gaz in water	Check pipe and pipe connections Check and consult factory

## 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.*