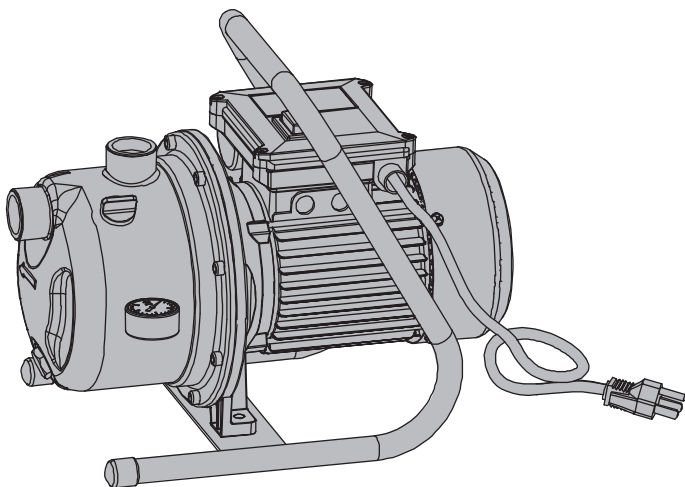




# LANCHEZ

OWNER'S MANUAL

**JET SPRINKLER UTILITY PUMP**



**JGP-2JH-1100W**

## CAUTION

Undersize wire between the motor and the power source will adversely limit the starting and load carrying abilities of the motor. Minimum wire sizes for the motor branch circuits are recommended in Table 1.

## WARNING - ELECTRICAL PRECAUTIONS

All wiring, electrical connections, and system grounding must comply with the National Electrical Code (NEC) and with any local codes and ordinances. Employ a licensed electrician.

## WARNING - RISK OF ELECTRICAL SHOCK

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

- A ground fault interrupter (GFI) protected circuit is recommended for use with any electrical device operating near water.
- Have an electrician provide an outlet near the point of use. For recommended cable size see Table 1.
- Pump and motor must be protected from the weather, for indoor use only.
- Motor must be grounded and terminal cover in place to reduce electrical shock hazard.
- Keep motor operating area as dry as possible.
- Always disconnect power before servicing.
- Not investigated for use in swimming pool area.

## APPLICATION

This jet sprinkler pump is a versatile pump for pressure boosting, small underground sprinkler systems, operating lawn sprinklers and a multitude of other general purpose applications. This pump is suitable for installations where the vertical distance from the pump to the water

level does not exceed \*25 ft. (7.6m), including drawdown. In offset installations, friction losses in the suction pipe must be taken into consideration.

## INSTALLATION

- Pump Location:** The pump should be installed in a clean, dry and ventilated location which provides adequate room for servicing and protection from freezing temperatures. It should be bolted to a good foundation, preferably concrete and provided adequate drainage. Locating the pump as close as possible to the water source reduces the friction in the suction pipe and will give maximum capacities.
- Suction pipe:** It is recommended that only new, clean 1-1/4 inch pipe or hose be used. If the pump is installed any appreciable distance away from the source of water, the suction pipe should be increased to 1-1/2 inch. Horizontal lengths of pipe must gradually slope upwards from the source of water to the pump to avoid air pockets in the line. Thread compound should be used on all pipe joints and connections should be thoroughly tightened. A foot valve must be installed and its operation should be checked since a leak will prevent proper operation of the system. Make sure that the foot valve is located so that it will be submerged at all times. If a sand point or driven well is used, install a check valve next to the pump suction instead of the foot valve. For booster pump applications no foot valve is required.
- Reminder:** For detailed step, you can find the guide what is illustrated with pictures in the same package, use the pump obviously.

## OPERATION - PRIMING THE PUMP

### WARNING: DO NOT RUN THE PUMP BEFORE PRIMING IT, SINCE THE SEAL AND IMPELLER COULD BE PERMANENTLY DAMAGED.

- Priming:** Do not run the pump before priming it, since the seal and impeller could be permanently damaged. Remove the plug from the street tee and pour clean water into the unit until casing and suction line are completely filled. Replace the priming plug and start the motor. If the unit is properly primed, it should pump almost immediately. If not, repeat the priming procedure until all the air has been eliminated from the suction line. If an in-line check valve is used in place of a foot valve, the initial priming time may take 5 to 15 minutes depending on the suction lift, (higher suction lift requires longer priming times). At 10 feet or greater suction lifts, water should be added to the casing approximately every 3 minutes until primed. If the pump does not prime within 25 minutes, stop the pump and check for suction leaks.
- Draining:** Should the unit be subject to freezing, it will be necessary to drain the pump and tank. To do this, shut off the power to the pump at the main electrical service panel. Open a valve in the system to release the pressure. Remove drain and priming plugs from the casing. Allow ample time for system to drain before reinstalling the plugs!

## MAINTENANCE

### WARNING - ELECTRICAL PRECAUTIONS

All wiring, electrical connections, and system grounding must comply with the National Electrical Code (NEC) and with any local codes and ordinances. Employ a licensed electrician.

### WARNING - RISK OF ELECTRICAL SHOCK

Before servicing motor operated equipment, shut off the power at the main electrical panel and disconnect the power supply from the motor and the accessories. Use safe working practices during servicing of equipment.

- a) **Lubrication:** The pump requires none. Refer to motor manufacturer's instructions for motor lubrication.

b) **Replacing Mechanical Seal:  
Disassembly**

- 1) Shut off the power to the pump at the main service panel and disconnect the power supply from motor.
- 2) Open a tap in the water system to release the pressure.
- 3) Remove the drain and prime plugs to allow the pump to drain.
- 4) Remove the 4 bolts and remove casing.
- 5) Pry the diffuser out of the casing using 2 slotted screwdrivers for leverage.
- 6) Remove fan shield and insert a screwdriver into the slot in the shaft to prevent it from turning while unscrewing the impeller (5) in counter-clockwise direction.
- 7) Slip the rotating seal off the shaft.

- 8) Remove motor tie bolts and remove motor from adapter (9) by slightly tapping end of motor shaft with a mallet.
- 9) Remove the ceramic seal seat from adapter.

**Reassembly**

- 1) Clean all the parts thoroughly before assembling.
- 2) Push ceramic seal into the adapter using thumbs only. Make sure the smooth surface of the ceramic seal faces outwards.
- 3) Reassemble motor to adapter using motor tie bolts.
- 4) Slip on rotating seal to the shaft with the 'carbon' ring towards the ceramic seat.
- 5) Replace the impeller and the diffuser.
- 6) Replace the casing making sure that the o-ring is not damaged and is in place.
- 7) Reinstall the drain plugs.
- 8) Reconnect the power.
- 9) Prime pump, start, check for leaks.

### SAFETY WARNINGS



**BEFORE OPERATING OR INSTALLING THIS PUMP, READ THIS MANUAL AND FOLLOW ALL SAFETY RULES AND OPERATING INSTRUCTIONS.**

## SPECIFICATION

|                       |                |
|-----------------------|----------------|
| Model                 | JGP-2JH-1100W  |
| Nominal voltage       | 110-120V/ 60HZ |
| Output power          | 1.6hp          |
| Motor full load       | 9.5 amps       |
| Protection type       | IPX4           |
| Max.height            | 147ft          |
| Max.suction height    | 26ft           |
| Max.conveying amount  | 1162gph        |
| Max.fluid temperature | 95° F          |
| Diameter of pipe      | NPT1"          |
| Max.Pressure          | 65.25psi       |

# PERFORMANCE

## GPH (LPH) AT TOTAL FEET (M)

**3.3(1) 18.0(5.5) 34.4(10.5) 50.9(15.5) 67.3(20.5) 83.7(25.5) 100.1(30.5) 116.5(35.5) 149.3(45.5)**

### JGP-2JH-1100W

|             |             |             |            |            |            |            |            |          |
|-------------|-------------|-------------|------------|------------|------------|------------|------------|----------|
| <b>1162</b> | <b>1056</b> | <b>1030</b> | <b>977</b> | <b>950</b> | <b>660</b> | <b>370</b> | <b>26</b>  | <b>0</b> |
| <b>4.4</b>  | <b>4</b>    | <b>3.9</b>  | <b>3.7</b> | <b>3.6</b> | <b>2.5</b> | <b>1.4</b> | <b>0.1</b> | <b>0</b> |

#### TROUBLESHOOTING GUIDE

- a) **Motor will not start:**
  - 1) No power due to blown fuses, open switches or loose connections.
- b) **Pump fails to deliver water:**
  - 1) Pump not completely primed.
  - 2) Suction lift is too great.
  - 3) Foot valve is either not submerged, buried in the mud or plugged.
- c) **Pump loses prime:**
  - 1) Air leaks in suction line.
  - 2) Well draw down too far.
  - 3) Faulty foot valve.
- d) **Pump delivers water but not at rated capacity:**
  - 1) Leaks in suction or discharge line.
  - 2) Foot valve, suction line, impeller or nozzle are partially plugged.
  - 3) Suction lift is greater than recommended.
  - 4) Improper impeller rotation or low speed.
  - 5) Motor does not come off starting windings.
  - 6) Low line voltage at motor.

#### LIMITED WARRANTY

For warranty consideration, **LANCHEZ** (hereafter "the Brand") warrants that the products specified in this warranty are free from defects in material or workmanship of the Brand. During the time periods and subject to the terms and conditions hereinafter set forth, the Brand will repair or replace to the original user or consumer any portion of this product which proves defective due to materials or workmanship of the Brand. At all times the Brand shall have and possess the sole right and option to determine whether to repair or replace defective equipment, parts, or components. The Brand has the option to inspect any product returned under warranty to confirm that the warranty applies before repair or replacement under warranty is approved. This warranty sets forth the Brand's sole obligation and purchaser's exclusive remedy for defective product. Return defective product to the place of purchase for warranty consideration. **WARRANTY PERIOD - PRODUCTS:** 1 year from the date of retail purchase by user. (No warranty on brushes, impeller or cam on models with brush-type motors and/or flex-vane impellers.) In the absence of suitable proof of the purchase date, the effective period of this warranty will begin on the product's date of manufacture.

**LABOR, ETC. COSTS:** The Brand shall IN NO EVENT be responsible or liable for the cost of field labor or other charges incurred by any customer in removing and/or affixing any product, part, or component thereof.

**PRODUCT IMPROVEMENTS:** The Brand reserves the right to change or improve its products or any portions thereof without being obligated to provide such a change or improvement for units sold and/or shipped prior to such change or improvement.

**GENERAL TERMS AND CONDITIONS:** This warranty shall not apply to damage due to acts of God, normal wear and tear, normal maintenance services and the parts used in connection with such service, lightning or conditions beyond the control of the Brand, nor shall it apply to products which, in the sole judgment of the Brand, have been subject to negligence, abuse, accident, misapplication, tampering, alteration, nor due to improper installation, operation, maintenance or storage, nor to excess of recommended maximums as set forth in the instructions.

Warranty will be VOID if any of the following conditions are found:

- 1. Product is used for purposes other than those for which it was designed and manufactured
- 2. Product not installed in accordance with applicable codes, ordinances, and good trade practices
- 3. Product connected to voltage other than indicated on nameplate
- 4. Pump used to circulate anything other than fresh water at approximately room temperature
- 5. Pump allowed to operate dry (fluid supply cut off)
- 6. Sealed motor housing opened or product dismantled by customer
- 7. Cord cut off to a length less than three feet

**DISCLAIMER:** Any oral statements about the product made by the seller, the Brand, the representatives, or any other parties do not constitute warranties, shall not be relied upon by the user, and are not part of the contract for sale. Seller's and the Brand's only obligation, and buyer's only remedy, shall be the replacement and/or repair by the Brand of the product as described above. NEITHER SELLER NOR THE BRAND SHALL BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE, DIRECT, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS), ARISING OUT OF THE USE OR THE INABILITY TO USE THE PRODUCT, AND THE USER AGREES THAT NO OTHER REMEDY SHALL BE AVAILABLE TO IT. Before using, the user shall determine the suitability of the product for his intended use, and user assumes all risk and liability whatsoever in connection therewith. THE WARRANTY AND REMEDY DESCRIBED IN THIS LIMITED WARRANTY IS AN EXCLUSIVE WARRANTY AND REMEDY AND IS IN LIEU OF ANY OTHER WARRANTY OR REMEDY, EXPRESSED OR IMPLIED, WHICH OTHER WARRANTIES AND REMEDIES ARE HEREBY EXPRESSLY EXCLUDED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, TO THE EXTENT EITHER APPLIES TO A PRODUCT SHALL BE LIMITED IN DURATION TO THE PERIODS OF THE EXPRESSED WARRANTIES GIVEN ABOVE. Some states and countries do not allow the exclusion or limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitations 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 and country to country.

Lanchez Pumps Industry Inc.