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Liberty Pumps P382LE41

Liberty Pumps P382LE41 Pro380 Series Simplex Sewage System Instruction Manual

Model: P382LE41

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Liberty Pumps P382LE41 Pro380 Series Simplex Sewage System. Please read these instructions thoroughly before beginning any work to ensure proper function and to prevent potential hazards. Retain this manual for future reference.

2. PRODUCT OVERVIEW

The Liberty Pumps Pro380 Series Simplex Sewage System is designed for residential wastewater management. It features a large capacity, shallow basin suitable for challenging soil conditions and bedrock installations. The system is engineered for extended pump life through longer pump cycles and comes pre-assembled with QuickTree Technology for simplified maintenance.

Key Features:

- Large 41-gallon basin capacity.
- Shallow 24 x 24-inch basin design for easier burial.
- QuickTree Technology for easy inspection and float replacement without plumbing disconnection.
- Separate access cover for QuickTree.
- Anti-flotation collar.
- Molded torque-stops and integrated cord seal technology.
- Integral rubber cover seals.



Image showing the Liberty Pumps P382LE41 Pro380 Series Simplex Sewage System, highlighting its compact design and key components.

3. SAFETY INFORMATION

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

CAUTION: Always disconnect the pump from the power source before handling or servicing. Failure to do so can result in serious injury or death.

- Ensure all electrical connections are made by a qualified electrician and comply with local codes.
- Do not operate the pump in an explosive atmosphere.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.

- Do not modify the pump or its components. Use only genuine Liberty Pumps replacement parts.

4. INSTALLATION (SETUP)

The Pro380 Series sewage package arrives from the factory pre-assembled, simplifying the installation process. However, professional installation is highly recommended to ensure compliance with all local plumbing and electrical codes.

Installation Steps:

1. **Site Preparation:** Excavate a pit suitable for the 24 x 24-inch basin, ensuring proper drainage and stability. The shallow basin design is ideal for bedrock and difficult soil conditions.
2. **Basin Placement:** Carefully lower the pre-assembled system into the prepared pit. Ensure the anti-flotation collar is properly seated to prevent movement.
3. **Plumbing Connections:** Connect the inlet and discharge piping. Ensure all connections are watertight and meet local plumbing codes. The system is designed for easy integration.
4. **Electrical Connections:** A qualified electrician must connect the pump to a dedicated, properly grounded electrical circuit. Verify voltage and amperage requirements.
5. **Float Adjustment:** The QuickTree technology allows for easy adjustment of the pump and alarm floats. Ensure floats are set to activate and deactivate the pump at appropriate levels to prevent short cycling.
6. **Backfill:** Once all connections are secure and tested, backfill around the basin, ensuring no debris enters the system. The clear disposable construction cover protects the system during rough-in and masonry work and should be removed when finish plumbing is ready.

5. OPERATION

The Liberty Pumps P382LE41 Pro380 Series Simplex Sewage System operates automatically. When wastewater enters the basin and reaches a predetermined level, the pump's float switch activates the pump. The pump then discharges the wastewater through the discharge pipe until the water level drops, deactivating the pump.

- **Initial Start-up:** After installation, fill the basin with water to test the pump's operation. Observe the pump activating and deactivating correctly.
- **Normal Operation:** The pump will cycle as needed based on wastewater inflow. Longer pump cycles are designed to extend pump life.
- **Alarm System:** If an alarm float is installed, it will activate if the water level rises above the normal operating range, indicating a potential issue.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your sewage system. Always disconnect power before performing any maintenance.

Maintenance Procedures:

1. **Periodic Inspection:** Annually inspect the basin for debris accumulation. Remove any foreign objects that could interfere with pump or float operation.
2. **QuickTree Access:** The QuickTree Technology allows for easy inspection and replacement of the pump and/or alarm float. Access is gained via a secondary "access" cover on the main lid. Floats are mounted on a stainless steel rod (tree) and suspended in the system.
3. **Pump Check:** Verify the pump operates smoothly and without unusual noises. Check for any signs of wear or

damage to the pump or power cord.

- Seal Integrity:** Inspect the integral rubber cover seals for cracks or deterioration. Replace if necessary to maintain a sealed system.
- Discharge Line:** Ensure the discharge line is free of obstructions.

7. TROUBLESHOOTING

Before attempting any repairs, always disconnect power to the unit. Consult a qualified professional for complex issues.

Problem	Possible Cause	Solution
Pump does not run.	No power; tripped breaker; faulty float switch; motor issue.	Check power supply and breaker. Inspect float switch for obstruction or damage. Consult a technician for motor issues.
Pump runs continuously.	Stuck float switch; clogged discharge line; check valve failure.	Clear float switch. Inspect and clear discharge line. Check or replace check valve.
Pump runs but moves no water.	Clogged impeller; air lock; discharge line blockage.	Disconnect power and clear impeller. Bleed air from system. Clear discharge line.
Alarm activates.	High water level; pump failure; float switch malfunction.	Investigate cause of high water. Check pump operation. Inspect alarm float.

8. SPECIFICATIONS

Brand	Liberty Pumps
Model Number	P382LE41
Horsepower	4/10 HP
Basin Dimensions	24"L x 24"W x 24"H
Basin Capacity	41 Gallons
Power Source	Corded Electric
Maximum Flow Rate	122 Gallons Per Minute
Maximum Lifting Height	20 Feet
Materials	Basin (Polyethylene), Pump (Cast Iron), Components (Stainless Steel)
UPC	671812110470

9. WARRANTY AND SUPPORT

Warranty Information:

Liberty Pumps, Inc. warrants that pumps and other products of its manufacture are free from all factory defects in material and workmanship for a period of 2 years from the date of purchase. For full warranty details and conditions, please refer to the official Liberty Pumps warranty documentation or contact customer support.

Customer Support:

For technical assistance, troubleshooting, or to inquire about replacement parts, please contact Liberty Pumps customer support. Contact information can typically be found on the manufacturer's official website or on the product packaging.