

Installation Manual

4353000D

CSP-Series Crawl Space Pump Kit

Models

CSP-237 237 Pump, 1/3 hp 115V

CSP-257

257 Pump, 1/3 hp 115V

CSP-457

457 Pump, 1/2 hp 115V



IMPORTANT: All Liberty Pumps products are supplied with their own separate Installation/Operation/Maintenance manuals. Ensure receipt of these manuals, and that they are read and understood prior to installation. For questions, call Liberty Pumps customer service at 1-800-543-2550.		NOTICE	Installer: Manual must remain with owner or system operator/maintainer. Record information from system nameplate:
VOID Apple Tree Avenue Bergen, NY 14416 ph: 1-800-543-2550 fax: 1-585-494-1839 www.LibertyPumps.com	Keep this manual handy for future reference. For replacement manual, visit LibertyPumps.com, or contact Liberty Pumps at 1-800-543-2550. Retain dated sales receipt for warranty.	System: Model: Serial: Mfg Date: Install Date:	

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Safety Guidelines

Â	This safety alert symbol is used in the manual and on the pump to alert of potential risk for serious injury or death.
<u>Å</u>	This safety alert symbol identifies risk of electric shock . It is accompanied with an instruction intended to minimize potential risk of electric shock.
	This safety alert symbol identifies risk of fire . It is accompanied with an instruction intended to minimize potential risk of fire.
	This safety alert symbol identifies risk of serious injury or death . It is accompanied with an instruction intended to minimize potential risk of injury or death.
	Warns of hazards which if not avoided will result in serious injury or death.
A WARNING	Warns of hazards which if not avoided could result in serious injury or death.
	Warns of hazards which if not avoided could result in minor or moderate injury.
NOTICE	Signals an important instruction related to the pump. Failure to follow these instructions could result in pump failure or property damage.
	Read every supplied manual before using pump system. Follow all the safety instructions in manual(s) and on the pump. Failure to do so could result in serious injury or death.

Safety Precautions

WARNING A RISK OF ELECTRIC SHOCK

- Accidental contact with electrically live parts, items, fluid, or water can cause serious injury or death.
- Always disconnect pump(s) from power source(s) before handling or making any adjustments to either the pump(s), the pump system, or the control panel.
- All installation and maintenance of pumps, controls, protection devices, and general wiring shall be done by qualified personnel.
- Do not remove cord and strain relief, and do not connect conduit to pump.

- All electrical and safety practices shall be in accordance with the National Electrical Code[®], the Occupational Safety and Health Administration, or applicable local codes and ordinances.
- Pump shall be properly grounded using its supplied grounding conductor. Do not bypass grounding wires or remove ground prong from attachment plugs. Failure to properly ground the pump system can cause all metal portions of the pump and its surroundings to become energized.
- Do not handle or unplug the pump with wet hands, when standing on damp surface, or in water unless wearing Personal Protective Equipment.
- Always wear dielectric rubber boots and other applicable Personal Protective Equipment (PPE) when water is on the floor and an energized pump system must be serviced, as submerged electrical connections can energize the water. Do not enter the water if the water level is higher than the PPE protection or if the PPE is not watertight.
- Do not lift or carry a pump or a float assembly by its power cord. This will damage the power cord, and could expose the electrically live wires inside the power cord.
- The electrical power supply shall be located within the length limitations of the pump power cord, and for below grade installations it shall be at least 4 ft (1.22 m) above floor level.
- Do not use this product in applications where human contact with the pumped fluid is common (such as swimming pools, fountains, marine areas, etc.).
- Protect the power and control cords from the environment. Unprotected power and control (switch) cords can allow water to wick through ends into pump or switch housings, causing surroundings to become energized.

- Do not use an extension cord to power the product. Extension cords can overload both the product and extension cord supply wires. Overloaded wires will get very hot and can catch on fire.
- This product requires a separate, properly fused and grounded branch circuit, sized for the voltage and amperage requirements of the pump, as noted on the nameplate. Overloaded branch circuit wires will get very hot and can catch on fire. When used, electrical outlets shall be simplex of the appropriate rating.
- Do not use this product with or near flammable or explosive fluids such as gasoline, fuel oil, kerosene, etc. If rotating elements inside pump strike any foreign object, sparks may occur. Sparks could ignite flammable liquids.
- These pumps are not to be installed in locations classified as hazardous in accordance with the National Electric Code[®], ANSI/NFPA 70.

AWARNING A RISK OF SERIOUS INJURY OR DEATH

Do not modify the pump/pump system in any way. Modifications may affect seals, change the electrical loading of the pump, or damage the pump and its components.

- All pump/pump system installations shall be in compliance with all applicable Federal, State, and Local codes and ordinances.
- Do not allow children to play with the pump system.
- Do not allow any person who is unqualified to have contact with this pump system. Any person who is unaware of the dangers of this pump system, or has not read this manual, can easily be injured by the pump system.
- Wear adequate Personal Protective Equipment when working on pumps or piping that have been exposed to wastewater. Sump and sewage pumps often handle materials that can transmit illness or disease upon contact with skin and other tissues.
- Do not remove any tags or labels from the pump or its cord.
- Keep clear of suction and discharge openings. To prevent injury, never insert fingers into pump while it is connected to a power source.
- Do not use this product with flammable, explosive, or corrosive fluids. Do not use in a flammable and/or explosive atmosphere as serious injury or death could result.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. www.p65warnings.ca.gov.

NOTICE

- Do not dispose of materials such as paint thinner or other chemicals down drains. Doing so could chemically attack and damage pump system components and cause product malfunction or failure.
- Do not use these pumps with fluid over 140°F (60°C).
 Operating the pump in fluid above this temperature can overheat the pump, resulting in pump failure.
- Do not use pump system with mud, sand, cement, hydrocarbons, grease, or chemicals. Pump and system components can be damaged from these items causing product malfunction or failure. Additionally, flooding can occur if these items jam the impeller or piping.
- Submersible Pump—do not run dry.

Introduction

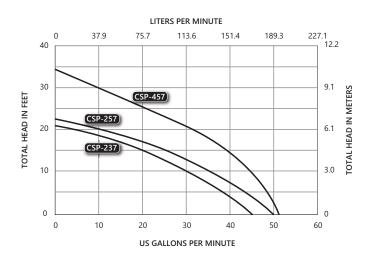
The pump is supplied with its own separate manual. Ensure receipt of this manual, and that it is read and understood prior to installing and using this system. Familiarity with the pump is critical.

This manual provides a brief overview of the system and deals mainly with installation of the system. It does not cover the specifics of the pump. For questions, call Liberty Pumps customer service at 800-543-2550.

Application

The CSP-Series kit is designed for use in a crawl space or where pooling water is occurring. Allowing the water in the pump or discharge line to freeze may cause damage to the pump. In colder regions, the pump should only be installed indoors or deep enough to be below the frost line.

Performance Curve



Installation

AWARNING A RISK OF ELECTRIC SHOCK

- All installation and maintenance of pumps, controls, protection devices, and general wiring shall be done by qualified personnel.
- All electrical and safety practices shall be in accordance with the National Electrical Code[®], the Occupational Safety and Health Administration, or applicable local codes and ordinances.

Backfill

For in-ground installation, a hole should be excavated as small as possible, leaving at least 8" of diametrical clearance. Coarse gravel is recommended for backfill.

Inlet Line

The CSP-Series kit includes a perforated basin for gathering water. Additional inlets may be added with a hole saw for allowing drain lines or weep tiles.

Discharge

When attaching the discharge, place the pump in the basin being careful to keep float from any obstruction or from hitting the tank wall. The CSP-Series kit includes a DHK-24 discharge hose kit. A 1-1/2" x 1-1/4" hose adapter will thread into the pump discharge. The 24' flexible hose will fit over the barbed fitting of the adapter and should be tightened down with a hose clamp. The hose will fit through the grommet in the basin cover and can be cut to the required length. Exit the discharge of water in an area that will drain away from the building and foundation.

Check Valve

The CSP-Series kit includes a threaded check valve for use with the discharge hose. This prevents water from draining back through the discharge hose into the basin. When using a check valve, the discharge line must be protected from freezing by running the discharge deep enough below ground level to be beneath the frost line. See Figure 1.

Power Cord

The pump power cord is equipped with a grounding conductor and grounding-type 3-prong plug. It shall be connected to a separately fused, grounded, 3-wire grounding-type receptacle of 15 Amp capacity with the proper 115 V. Verify all electrical wiring and connections are in accordance with the National Electric Code® and all applicable local codes.

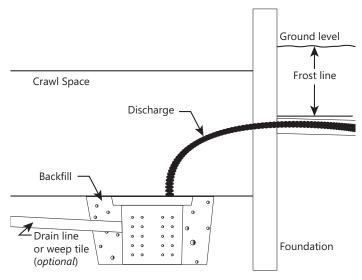


Figure 1. Typical Residential Installation (recommended installation)

Operation, Maintenance and Troubleshooting

Refer to supplied pump manual. For further questions, contact customer service at 800-543-2550 or support@LibertyPumps.com.

Warranty

Liberty Pumps Wholesale Products Limited Warranty

Liberty Pumps, Inc. warrants that Liberty Pumps wholesale products are free from all factory defects in material and workmanship for a period of three (3) years from the date of purchase (excluding* batteries and "Commercial Series" models). The date of purchase shall be determined by a dated sales receipt noting the model and serial number of the pump. The dated sales receipt must accompany the returned pump if the date of return is more than three years from the date of manufacture noted on the pump nameplate.

The manufacturer's sole obligation under this Warranty shall be limited to the repair or replacement of any parts found by the manufacturer to be defective, provided the part or assembly is returned freight prepaid to the manufacturer or its authorized service center, and provided that none of the following warranty-voiding characteristics are evident:

The manufacturer shall not be liable under this Warranty if the product has not been properly installed, operated, or maintained per manufacturer instructions; if it has been disassembled, modified, abused, or tampered with; if the electrical cord has been cut, damaged, or spliced; if the pump discharge has been reduced in size; if the pump has been used in water temperatures above the advertised rating; if the pump has been used in water containing sand, lime, cement, gravel, or other abrasives; if the product has been used to pump chemicals, grease, or hydrocarbons; if a non-submersible motor has been subjected to moisture; or if the label bearing the model and serial number has been removed.

Liberty Pumps, Inc. shall not be liable for any loss, damage, or expenses resulting from installation or use of its products, or for indirect, incidental, and consequential damages, including costs of removal, reinstallation or transportation.

There is no other express warranty. All implied warranties, including those of merchantability and fitness for a particular purpose, are limited to three years from the date of purchase. This Warranty contains the exclusive remedy of the purchaser, and, where permitted, liability for consequential or incidental damages under any and all warranties are excluded.

*Liberty Pumps, Inc. warrants StormCell[®] batteries for 1 year from date of purchase, and warrants that pumps of its Commercial Series are free from all factory defects in material and workmanship for a period of 18 months from the date of installation or 24 months from the date of manufacture, whichever occurs first, and provided that such products are used in compliance with their intended applications as set forth in the technical specifications and manuals.