



Environmental Specifications:	40°F to 120°F (4.5°C to 49°C) NEMA 1 enclosure, indoor use only Humidity, 93% non- condensing
Chemical Storage Capacity:	up to 30 US Gallons
Approved Chemicals*:	Potter Pipe-Shield®
Power Requirements:	15 Amp 120 VAC (1 phase) unswitched power source
Chemical Dispersing Flow Rate:	0.63 gpm ref

**See Material Safety Data Sheet for further information on handling of chemicals.*

Ordering Information

Stock number	Model/Description
1119703	PCDS-B Potter Chemical Delivery System
5050400	Containment Basin (Optional)

The Model PCDS-B, Potter Chemical Delivery System, is a self contained chemical delivery system manufactured specifically for automatic fire sprinkler systems. The unit is designed to pump Potter Pipe-Shield® into the sprinkler system upon the operation of a dedicated manual ON/OFF switch located on the interior of the cabinet. The pump delivers Potter Pipe-Shield® at a flow rate of 0.63 GPM (±0.15 depending on system pressure) into the system. The pump should only be turned on when new water is flowing into the system. After initial treatment, the pump should only be activated after a Potter Pipe-Shield® test is taken. If the results show no Potter

Pipe-Shield® present in the system, then a recharge is recommended. Otherwise, the ball valve should be closed, suction wand removed, factory delivery container cap reattached, and power turned off. The cabinet is designed to hold two 15 gallon (one 15 gallon when optional containment basin is used), or two 5 gallon Potter Pipe-Shield® factory delivered containers. Potter Pipe-Shield® should be pumped directly from the factory delivered containers. Only Potter Pipe-Shield® may be used. Usage of other chemicals voids the PCDS-B warranty.

CAUTION

The PCDS-B shall be installed in a location with a floor drain or where spillage will not cause damage.

Inspection: The PCDS-B has been inspected and performance tested at the factory. Carefully inspect the PCDS-B to make sure that no damage occurred during shipment. If the unit is damaged, do not operate the pump and notify Potter immediately.

- The PCDS-B should be positioned in a location that will provide convenient access to the sprinkler system(s) for which the unit is intended.
- The PCDS-B must be level. Use steel shims if necessary.
- The PCDS-B must be installed indoors and protected from water.
- A ball valve shall be installed between the check valve on the discharge hose and the system.

WARNING

High Voltage. Electrocutation Hazard. Do not handle live AC wiring. Do not work on any wiring unless the power supply has been disconnected. To do otherwise may result in severe injury or death.

Piping: Check piping size and materials. Confirm that the pump application is the same as when the system was ordered, and that the wetted materials of the pump construction are suitable for the liquid being pumped.

Notice: Piping loads in excess of 5 pounds in any direction may cause joints, gaskets, or valves to leak or suck air, not allowing the pump to prime and operate correctly. While connections are being made or if repairs or changes are made to the existing piping, take care not to disturb existing joints.

Leaks: The PCDS-B was pressure tested at the factory for leaks. After the PCDS-B is installed, check the pump and piping for leaks by pumping water or other inert liquid through the system under pressure. *Notice: Do not run the pump on a dead head for over 30 seconds.*

Repairs and Service: The PCDS-B should be visually inspected once each quarter. Keep all documentation with the unit in the protective document holder provided. Include the Material Safety Data Sheet with the documents and hang document holder inside the enclosure. Include a copy of the Material Safety Data Sheet in the "Right To Know" stations throughout the facility.

Technical Support: If questions or problems occur during the setup or operation of the PCDS-B contact Potter Technical support at 1-800-325-3936.

CAUTION

Overcurrent protection should not exceed 20 AMP per cable.

CAUTION

Never run the pump with the shutoff valve on the suction side of the pump closed.

Setup And Connection Procedure

1. Completely drain the sprinkler system through the 2" main drain, auxiliary drain and flushing connection to remove any debris and bacteria.
2. Connect the system isolation ball valve and check valve to the sprinkler system.
3. Connect the 1/2" check valve installed in step 2.
4. Connect the stainless steel braided, 10 foot hose to the check valve.
5. Connect the 19" long PVC suction tube to the 5' long suction hose by screwing the suction hose onto the suction tube.
6. Plug the pump into a 120V outlet. Make sure the switch is off.
7. Insert the suction tube into the chemical container.

CAUTION

The inlet of the suction tube must always remain below the surface of the chemical when the pump is running. Failure to follow this procedure may result in damage to the pump

Operating Procedure for Potter Pipe-Shield®

1. Open any remote drains or vents.
2. Open the ball valve previously installed at the injection inlet on the fire sprinkler system.
3. Slightly open the main control valve 1 to 2 turns to begin filling the system.
4. Turn on pump.
5. Monitor the previously opened valves and vents. Close when water discharges to prevent water damage.
6. When the proper amount of Potter Pipe-Shield® has been injected into the system to achieve a 0.5% solution for wet systems and 1% for dry or preaction systems. Turn off the pump.
7. Close the isolation ball valve.
8. Finish filling the system.
9. Obtain a water sample from a far end of the system, use the Pipe-Shield® test kit #1119170 to determine if the system has the proper level of Potter Pipe-Shield®.

Storage Procedure

1. Make sure the ball valve is closed.
2. Remove the suction tube from the Potter Pipe-Shield® chemical container and place in the PVC switch tube holder.
3. Cap the Potter Pipe-Shield® chemical container.
4. Record the amount of Potter Pipe-Shield® left on site.
5. Put the lid on the PCDS-B and reattach the front access panel.

Discharge hose to sprinkler system connection (These parts supplied with the PCDS-B)

Fig. 3 PCDS-B Assembly

