



Temperature Range:	40°F to 120°F (4.5°C to 49°C)
Dimensions:	22.06"W x 17.93"H x 10.93"D
Weight:	49 lbs
Hoses:	5' Suction w/ 19" tube, 15' discharge
Approved Chemicals*:	Potter Pipe-Shield™
Power Requirements:	24' grounded power cord is attached for connection to 120VAC 15 Amp 1 phase (REF) outlet
Chemical Dispersing Flow Rate:	0.63 gpm

*See Material Safety Data Sheet included with Potter Pipe-Shield™.

Ordering Information

Stock No.	Model / Description
1119925	PCIS-B Portable Chemical Injection System

Description

The PCIS-B Portable Chemical Injection System is designed and manufactured specifically for injecting Potter Pipe-Shield™ corrosion inhibitor into fire sprinkler systems.

The PCIS-B is a fully self-contained portable system. The pump and manual on/off switch are mounted to the base of a durable wheeled shipping container with telescoping handle that can be shipped via normal carrier service, transported by service vehicles and wheeled directly to the riser location.

Potter Pipe-Shield™ does not have to be injected into the system in metered amounts as the system is filled. Drain the sprinkler system through the 2" main drain, any auxiliary drain and flushing connection to remove debris and bacterium. When Pipe-Shield™ is injected as the system is being filled, it will automatically disperse throughout the entire sprinkler system to treat the pipe. The amount of Pipe-Shield™ required for a wet pipe system is 0.5% of the total system capacity. For a dry pipe system the ratio is increased to 1% of total system capacity.

Connections for the suction and discharge hoses to the pump are made with easy to use quick connect push-on fittings. A 5' Siphoning hose, 19" PVC siphoning tube and a 15' discharge hose with quick-connect fittings and bushing are included. The unit also comes with a 24' grounded power cord. All components fit neatly inside the PCIS-B case for easy transporting.

Inspection

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

Precautions

- Safety glasses and protective gloves shall be worn when handling any corrosion inhibitor.
- Please read and follow the safety precautions included in the Material Safety Data Sheet (MSDS) provided with the corrosion inhibitor Potter Pipe-Shield™ or approved chemical before handling.

- Always rinse the pump and any containers used to hold the corrosion inhibitor with clean water before storing, transporting, or discarding.
- Do not run the pump dry. If the chemical runs out before the system is filled, shut off the pump and stop filling the system. Insert the suction tube into a new container of corrosion inhibitor, re-start the pump and resume filling the system at the required rate.

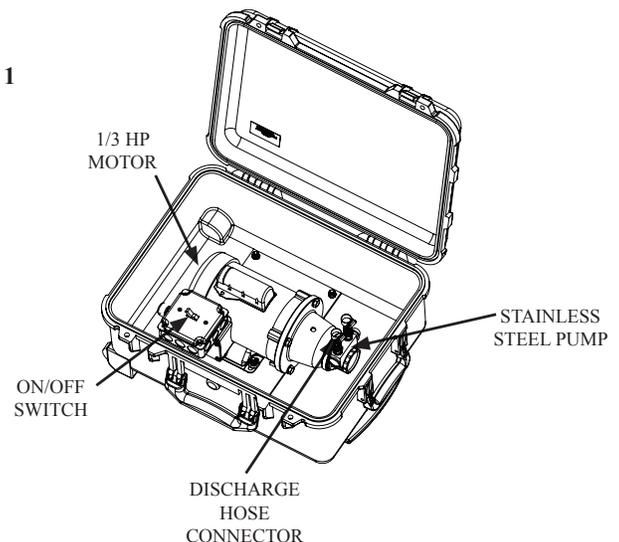
CAUTION

Overcurrent protection should not exceed 20 amp per cable.

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

Fig. 1



Setup And Connection Procedure

CAUTION

Potter Pipe-Shield™ shall only be injected into flowing water. Do not inject into stagnant or still water. It may be necessary to install a remote valve on the system to allow water to flow through more of the system. Water must be flowing to allow Potter Pipe-Shield™ to properly disperse.

Note: When used with Potter Pipe-Shield™, the PCIS-B shall be connected to the riser at the head end of the sprinkler system on the system side of any backflow device or main water control valve.

* If a corrosion monitoring station (PCMS-RM or DPCMS-RM) is used on a system treated with Pipe-Shield™, do not inject the inhibitor through the monitoring station. This could affect the analysis of the coupons and probe. In order for the corrosion monitoring station to provide a worst case scenario, the corrosion monitoring station should be isolated from the system as the inhibitor is added. Place the monitoring station back on line after the injection of the inhibitor is complete.

1. Completely drain the sprinkler system through the 2" main drain, auxiliary drain and flushing connection to remove any debris and bacteria.
2. Connect a system isolation ball valve and check valve to the sprinkler system for connecting the PCIS-B. The PCIS-B comes equipped with a 1/2" male thread quick connect fitting and bushing.
3. Connect the 1/2" male quick connect supplied with the PCIS-B to the check valve installed in step 2.
4. Plug the female end of the 15' discharge hose on to the quick connect fitting and bushing previously installed on the system.
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.

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 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 Pipe-Shield™.
10. If the level of Pipe-Shield™ is satisfactory, proceed with the disconnect and maintenance procedure.

Disconnection And Maintenance Procedure

1. Make sure the ball valve system is closed.
2. Disconnect the discharge hose from the ball valve at the chemical inlet by pushing the sleeve forward on the quick connect fitting (away from the riser).
Note: Remember to remove the quick connect coupling and bushing from the ball valve and pack it with the PCIS-B.
3. Pump at least 5 gallons of clean water through the entire PCIS-B.
4. Unplug the PCIS-B.
5. Unscrew the suction tube from the suction hose.
6. Drain any water still in the hoses.
7. Store all hoses and quick connect assembly in the PCIS-B case.
8. Install plug on suction-end of hose. Close the lid on the case and secure all latches.

Fig. 2 Discharge Hose To Sprinkler System Connection (Supplied With PCIS-B)

