



Approvals: Air Maintenance Device: UL Listed, FM approved

Service Pressure: Supplies 40 - 100 psig to sprinkler system

System Outlet: ½" FNPT

Environmental Specifications: 50°F to 100°F

Power Requirements:

CDP 500 Single Phase 230V current load 8.6 amps
 CDP 500 Three Phase 460V current load 4.3 amps
 CDP 1000 Single Phase 230V current load 13 amps
 CDP 1000 Three Phase 460V current load 6.5 amps
 CDP 2000 Single Phase 230V current load 13 amps
 CDP 2000 Three Phase 460V current load 6.5 amps

System Capacity: CDP 500 - 500 gallon / CDP 1000 - 1000 gallon / CDP 2000 - 2000 gallon

Compressor HP: CDP 500 - 2 HP / CDP 1000 - 5 HP
 CDP 2000 - 5 HP

Dryer CFM Rating: CDP 500 - 10 CFM / CDP 1000 - 20 CFM / CDP 2000 - 27 CFM

Approximate Shipping Weight: CDP 500 - 375 lbs / CDP 1000 - 500 lbs. / CDP 2000 - 550 lbs.

Wire Size Requirements:

	460V	230V
CDP 500	12ga	12ga
CDP 1000	12ga	10ga*
CDP 2000	12ga	10ga*

**if under 50' run 12 ga can be used. However, Check voltage while running to ensure no under voltage condition exists. For runs over 100', increase wire size to correct for voltage drops.*

General Information

The Corrosion Dry Air Pak is a turnkey system designed to provide moisture free air to a -40 degree F dew point in dry or preaction sprinkler systems. A moisture-free environment will reduce corrosive effects of MIC bacteria. The air compressor is designed to fill the sprinkler system to 40 psig in accordance with NFPA 13, as well as provide the higher pressure needed to allow the twin tower regenerative air dryer to function properly. Prior to entering the regenerative air dryer, an air cooled aftercooler cools the compressor's hot discharge air to a maximum 100 degrees F. A coalescing prefilter with a differential pressure gauge removes oil vapor and other contaminants that can destroy the desiccant in the dryer towers. A combination particulate filter and regulator prevents downstream migration of desiccant dust while regulating air pressure to the sprinkler system.

The Corrosion Dry Air Pak is controlled by one integrated control panel complete with a flow diagram display, 120 volt control circuit with indicating lights for tower drying, drain valve activation and compressor operation, along with panel mounted hour meter, separate drain valve duration and interval controls, drain valve on/off switch and panel control on/off switch. Four panel-mounted pressure gauges are provided for receiver, outlet and drying tower pressures. Purge set pressure gauge is separately mounted and conveniently located at the purge valve for ease of setting the purge flow.

All components are pre-piped, pretested, and pre-wired for ease of mechanical and electrical installation on site. Each unit includes a UL Listed, FM approved Air Maintenance Device.

All models include a CDP-TK Moisture Indicator Kit which is a self-contained device for visually monitoring moisture in air streams. The media changes color in the presence of water vapor. When the media is blue, the air contains less than 20% moisture (relative humidity). The media will change to pink when the moisture level in the air rises above 20% relative humidity.

The Corrosion Dry Air Pak comes fully charged with desiccant so that no on-site desiccant is required at start-up. Maintenance kits, which include replacement filter elements (3) and 2 quarts of compressor oil, with or without desiccant, are available to assure life and performance of the Corrosion Dry Air Pak.

For improved MIC and oxygen corrosion protection, Potter Pipe-Shield™ should be used to coat the inside of the sprinkler system.

Installation

Refer to CDP Installation, Operation & Maintenance Instruction Manual part #5401511.

Ordering Information

Part #	Description
1119726	CDP 500 Single Phase 120V
1119727	CDP 500 Single Phase 208V
1119728	CDP 500 Single Phase 230V
1119730	CDP 500 Three Phase 208 V
1119731	CDP 500 Three Phase 230V
1119732	CDP 500 Three Phase 460V
1119733	CDP 500 Three Phase 575V
1119735	CDP 1000 Three Phase 208V
1119736	CDP 1000 Three Phase 230V
1119737	CDP 1000 Three Phase 460V
1119738	CDP 1000 Three Phase 575V
1119740	CDP 2000 Three Phase 208V
1119741	CDP 2000 Three Phase 230V
1119742	CDP 2000 Three Phase 460V
1119743	CDP 2000 Three Phase 575V
All above models include a CDP-TK Moisture Indicator Kit	
1119745	CDP-TK Moisture Indicator Kit
1119750	CDP-MK Maintenance Kit
1119755	CDP-DMK Maintenance Kit w / Desiccant

Fig. 1: System Layout

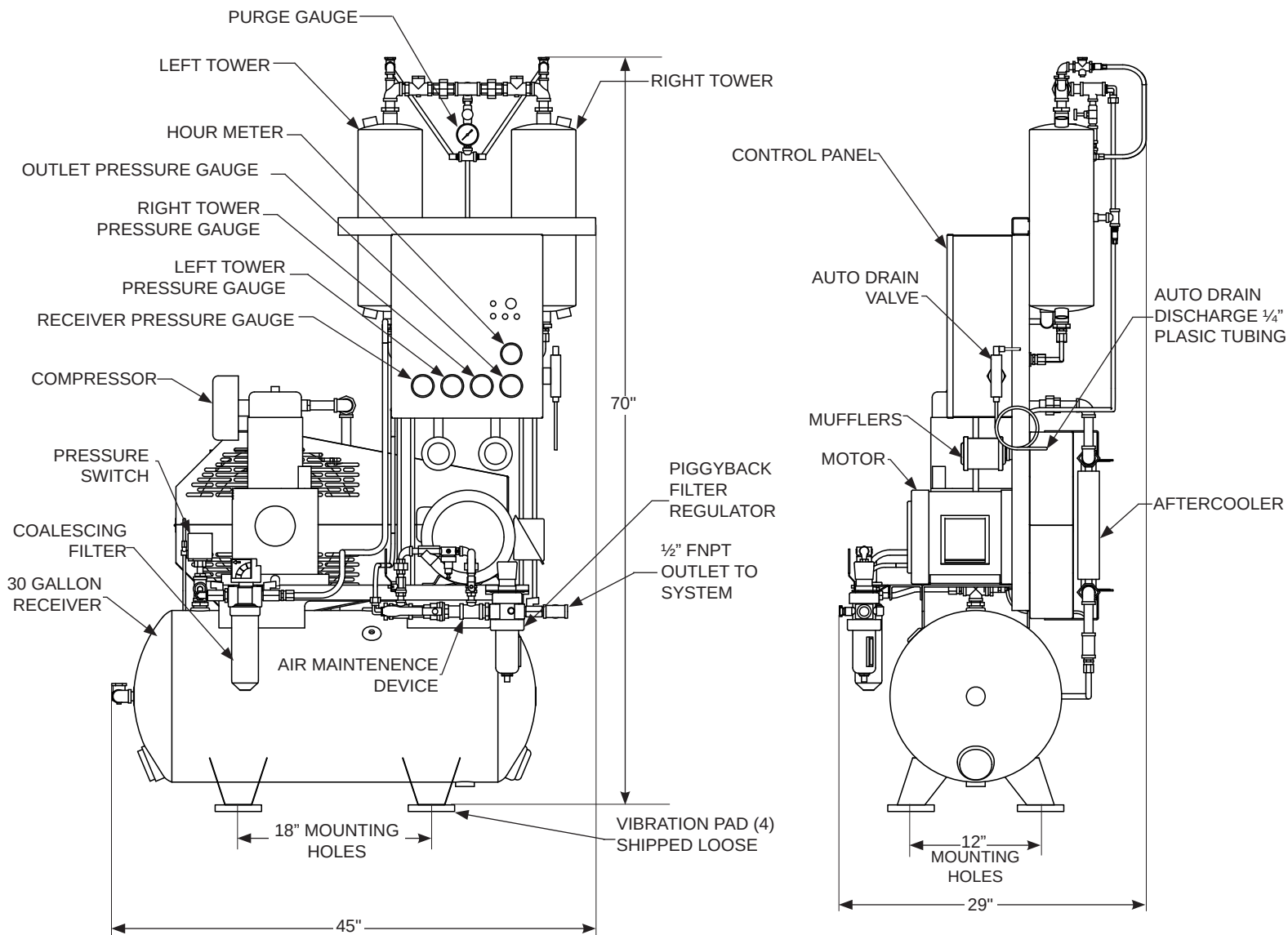


Fig. 2: System Connection

