

PDS-4000

SPRAY DAMPENING MIXING/SUPPLY SYSTEM



ACCESSIBILITY

- Three Side Panels Can be Removed in Seconds for Complete Accessibility

FAIL-SAFE REDUNDANT SYSTEMS

- Duplex Filtration with Change Alarm Warning
- 2 AOD Supply Pumps
- 2 Electronic-Volumetric Mixing Systems
- 2 Water Valves

COMPLETE SYSTEM CONTROL & MONITORING

- Monitors Conductivity, pH, Temperature, Low Air Pressure, Fluid Pressure, Filter Change, Fill Failure and Low Reagent
- Flashing Warning Light Alerts Operator when there is a Problem
- Status Annunciator Panel Automatically Diagnoses System Problems

The **PDS-4000**, designed for Smith RPM Spray Bar dampeners, is a premium quality mixing and supply system featuring total system redundancy. Two Electronic-Volumetric mixing systems and two supply pumps under a single cabinet alternate duties when in automatic mode. These alternating systems also act as a back-up to one another assuring a consistent supply through the dampeners. The entire system is controlled by a Programmable Logic Controller (PLC), which includes a 2-line annunciator panel constantly monitoring all **PDS-4000** functions. The PLC alerts the operator of problems via a visual alarm.

The **PDS-4000** features two Electronic-Volumetric metering systems injecting precise amounts of fountain solution into the water stream. Self-activating level controls, interfaced with these mixing systems, provide automatic filling. Fountain solution, pumped directly from drums/totes, circulates through the siphon probe and then is returned to the drums/totes.

To assure a continuous flow of dampening solution through the spray bars, two double diaphragm pumps alternate to pressurize and circulate the fluid. The solution is filtered as it leaves and before it returns to the circulator. The press-ready solution is stored in an easy-to-clean tank.

STANDARD FEATURES

- Feeds up to 48 Dampeners
- Precise Redundant Electronic-Volumetric Mixing
- Dual Supply Pumps
- PLC Control System
- Annunciated Alarm Panel
- Conductivity Monitoring System
- Digital Temperature Display
- Fail-Safe Supply Pump System Auto Back-Up
- Fully Insulated 17 Gal. Polyethylene Tank
- Duplex Filtration with Change Alarm Warning
- Auto Drum/Tote Switching



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PDS-4000 Options

- **Digital pH Meter**
With High and Low Alarm Set Points including Terminals for Remote Meter Connection
- **Chilling Unit**
1, 1 1/2 or 2 Ton – Air Cooled
- **Stainless Steel Heat Exchanger**
Including Manual Control valve and Stainless Steel Thermometer Mounted on the Back Side of the Unit
- **UV Sterilizer for Bacteria Control**
Pre-Wired and Piped into the By-Pass Loop Interlocked with the Supply Pumps
- **Remote Digital L.E.D. Meter**
For Monitoring Conductivity or pH up to 2,000' from the Main Unit.
- **Waste Water Recovery Unit**
- **Spare Parts Package**

Specifications & Dimensions

General

| | |
|-----------------|---|
| Model: | PDS-4000 |
| Cabinet Size: | 41" H x 40" L x 26" D |
| Control: | Programmable Logic Controls (PLC) Mitsubishi FXO |
| Paint: | Safety Blue (or other colors) |
| Reservoir Tank: | 18"D x 17" H Black polyethylene 17 gal capacity - 15 gal operational |
| Filters: | 10 Micron 2 3/4" x 10" filter duplexed |
| Alarm: | Xenon light mounted on top of control panel |
| Weight: | Shipping: 675 lbs Operating: 600 lbs |

Service Requirements & Connections

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|-------------|--|
| Electrical: | 120v/60 Hz 1 Ph - Standard (others available) |
| Water: | 40 psi (min.) at 5 GPM. 3/4" Hose x 5' long |
| Air: | 1/2" fpt conn. 10 cfm max at 90 to 125 psi max. Dry non-lubricated air Filter/regulator supplied |

Operational

| | |
|------------------------|--|
| Mixing Capacity: | 240 GPH at 45 psi (other capacities available) |
| Mixing Ratios: | 1 oz/gal to 7 oz/gal (other ratios available) |
| Two (2) Siphon Probes: | 50" long (127 mm) for tote bins standard (others available) |
| Two (2) Supply Pumps: | 1" AOD Pumps with accumulator |