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Ten-Head PPS Corrosion-Resistant Ultrasonic Atomizer

Technical Datasheet | Model MS-10P

This module is intended for OEM liquid atomization systems. Select the power supply, tank, and wetted materials for the actual liquid and operating conditions.



Technical Specifications

Parameter	Specification
Atomizing heads	10
Corrosion-resistant components	PPS plastic housing; PPS retaining rings; PPS water-level sensor
Atomizing discs	Ø25 mm quartz-glass discs
Operating frequency	1.7 MHz
DC input	36–50 VDC constant-power range; 24–36 VDC adjustable-output range
Current	6.3–7.9 A
Rated power	approximately 340 W at 45 VDC (product label)
Atomization capacity	up to 10 L/h nominal; actual output depends on conditions
Typical droplet size	up to 10 µm; depends on operating conditions
Liquid over-temperature stop / recovery	40–50 °C / 30–38 °C
Disc service interval	3,000–4,000 h, depending on liquid and operating conditions
Dimensions	276 × 82 × 27 mm
Cable	1.5 m
Matched DC power supply	400 W, supplied by factory; confirm output voltage on unit label
Water-level control	PPS mechanical float-type water-level sensor with dry-run protection

Certification and Protection

CE; IP67.

Use and Compatibility

Use the correct polarity (red positive, black negative). Provide a stable water level, ventilation and regular cleaning. Atomizing discs are consumable parts; reduced output after cleaning may indicate replacement is needed.

Selected dilute aqueous disinfectants below 500 ppm, including quaternary ammonium compounds, chlorine dioxide, hypochlorous acid and sodium hypochlorite. Confirm the exact formulation and concentration, and test a sample under actual conditions before production use.

Installation and Maintenance

Recommended operating water level: 75 mm, measured from the bottom of the atomizer to the water surface. The recommended water level should be approximately level with the top of the mechanical water-level sensor rod. Low-water protection: The atomizer stops operating when the water level falls approximately 45 mm below the top of the mechanical water-level sensor rod. The actual cutoff level may vary depending on water quality.

Keep the tank clean. Avoid abrasive cleaning of the quartz-glass discs. Confirm chemical cleaning agents before use.

Recommended Inspection and Maintenance Schedule

Frequency	Recommended checks and maintenance
Before each start / daily	Check water level, mist output, leaks, unusual noise and unobstructed airflow.
Every 2 weeks	Inspect and clean the tank; inspect discs, sensor and module for scale or debris. Clean sooner in hard or contaminated water.
Every 1–3 months	Inspect connectors, cable condition, float mechanism, filter condition (if fitted), drainage and power-supply ventilation.
As required	Remove deposits when output falls, mist becomes uneven or visible mineral deposits appear. Use only a cleaning method suitable for the wetted materials.
Before long storage	Disconnect power, drain, clean, rinse, dry and store in a clean, dry location.

Dimension Drawing

