



## Ultrasonic Atomization Module – MS-12 Technical Datasheet

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### 1. General Description

The MS-12 is a Twelve-Head ultrasonic atomizer offering maximum mist output for large-scale industrial and OEM integration systems.

### 2. Technical Specifications

Working Voltage: DC 45V (42–48V)

Working Current: 6.8 – 7.2 A

Frequency: 1.7 MHz

Continuous Output: 6.0 – 7.0 L/H

Droplet Size: 1 – 10  $\mu\text{m}$

Working Water Temperature: 5 – 45°C

Recommended pH Range: 5 – 8

Optimum Water Level: 28 – 33 mm

Protection Water Level: 10 – 15 mm

Overheat Protection: 55 – 65°C

Lifetime (Clean Water): 3500 – 5000 hours

### 3. Mechanical Specifications

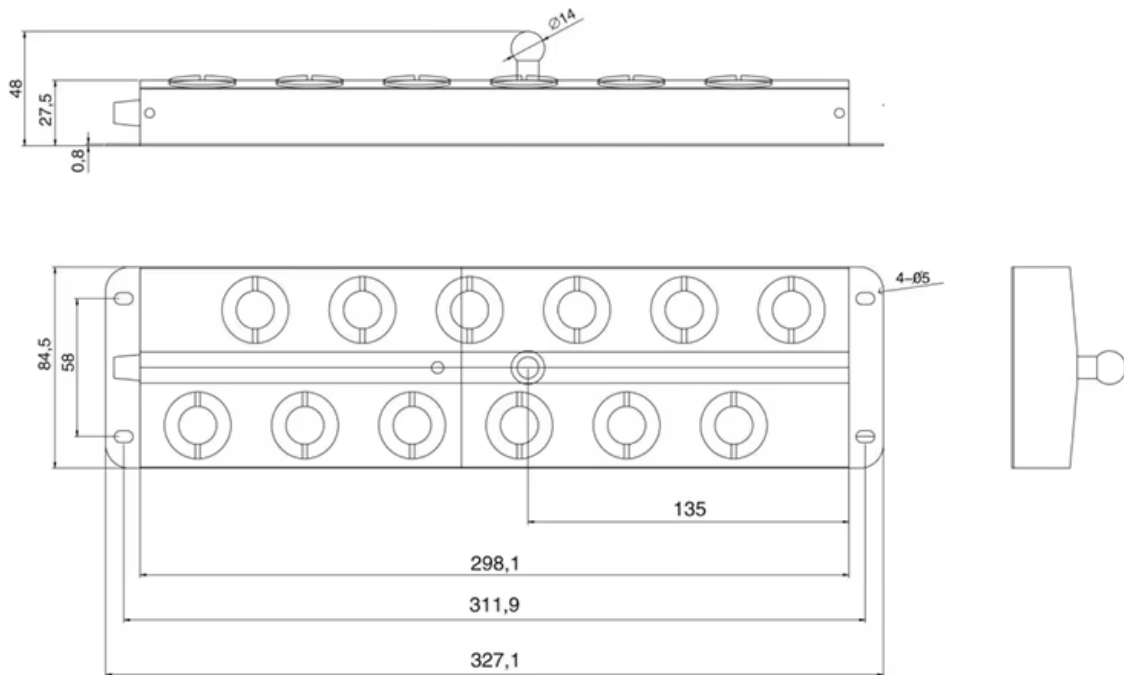
Housing Material: polished 304 stainless steel housing

Nickel-chrome plated brass compression ring

Atomizing Disc Diameter:  $\text{Ø}20 \text{ mm} \times 12$

Dimensions: 328 x 85 x 28 mm

Cable Length: 1500 mm



#### 4. Power Supply

Recommended to use AC220V-DC45V / 400W power supply.

#### 5. Features

- High-frequency ultrasonic atomization (1.7 MHz)
- Compact design for OEM integration
- Built-in over-temperature protection
- Water level protection (dry-run prevention)
- Stable constant current operation
- Stainless steel housing for durability

#### 6. Application Areas

- Humidification systems
- HVAC integration
- Industrial misting

- Agricultural / greenhouse use
- OEM equipment integration

## **7. Important Notes**

- Designed primarily for clean water operation
- Recommended pH range: 5-8
- For special liquids (e.g. disinfectants, HOCl solutions), compatibility and lifetime should be verified through testing
- Service life may vary depending on water quality and operating conditions

## **8. Testing & Evaluation**

Samples are available for testing and evaluation upon request.