

PM-21I

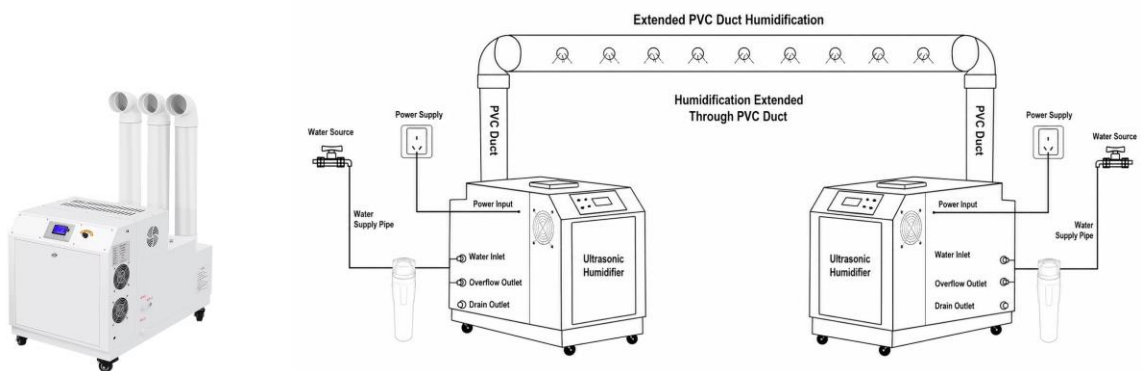
Industrial Ultrasonic Humidifier

Technical Datasheet

1. General Description

The **PM-21I** is an industrial ultrasonic humidifier designed for continuous humidity control in commercial and industrial environments. Utilizing high-frequency ultrasonic atomization technology, it generates fine mist efficiently while maintaining low energy consumption. The unit features intelligent humidity control, continuously adjustable mist output and direct water supply, making it suitable for reliable long-term industrial operation.

The PM-21I is suitable for both standalone humidification and ducted humidification applications.



2. Technical Specifications

Item	Specification
Model	PM-21I
Humidification Capacity	21 L/h
Recommended Coverage	220–280 m ² *
Maximum Power Consumption	3600 W
Power Supply	AC 220–240 V, 50/60 Hz
Control	Intelligent Humidity Control
Mist Output	Continuously Adjustable
Water Supply	Direct Water Supply
Mist Outlet	3 × Ø110 mm
Recommended Duct	PVC Pipe (Ø110 mm)
Maximum Recommended Duct Length	26–30 m
Dimensions (L × W × H)	920 × 540 × 600 mm
Net Weight	56 kg
Atomizing Heads	8 × 10-head Modules

****Coverage depends on ceiling height, ventilation rate, target humidity and application.***

3. Key Features

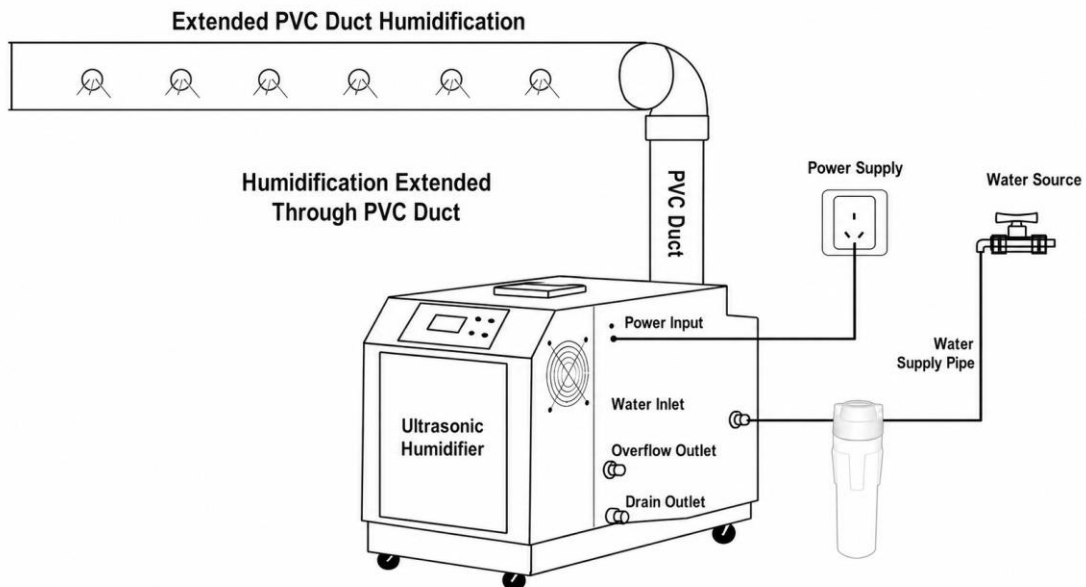
- Intelligent humidity control
- Continuously adjustable mist output
- Direct water supply
- Stable continuous operation
- Low energy consumption
- Easy maintenance
- Suitable for standalone or ducted humidification systems

4. Applications

- Electronics Manufacturing
- Printing & Packaging
- Warehousing
- Textile Industry
- Food Processing
- Greenhouses

5. Installation Notes

- Standard outlet diameter: Ø110 mm
- Standard PVC pipes are recommended for duct installation.
- Reducers may be used if a smaller duct diameter is required.
- Ducts should be installed with a slight slope to allow condensate to return naturally to the humidifier.
- The number, diameter and spacing of outlet holes should be determined according to the workshop layout and humidification requirements.
- Final duct routing should be confirmed based on the actual site layout.



6. Water Quality

Clean tap water is suitable for most applications.

For better long-term performance and reduced scale buildup, RO water or softened water is recommended where available, especially in hard water areas.

Regular inspection and cleaning are recommended to maintain optimum performance.

Recommended maintenance guidelines:

- Inspect and clean the water tank every 2 weeks, or more frequently if required by the water quality and operating conditions.
- Inspect the atomizing discs regularly and remove mineral scale as required. Hard water may require more frequent inspection and cleaning.
- Clean the atomizing modules using a soft brush and a mild acidic descaling solution.
- During tank cleaning, inspect the water-level components, water inlet, overflow outlet and drain outlet, and remove any blockage or sediment.

7. Engineering Support

For project evaluation, please provide the workshop layout drawing or the approximate room dimensions (Length × Width × Height).

Our engineering team can provide recommendations on equipment selection, duct arrangement and installation based on your project requirements and workshop layout.