



Magna Engineers

Humidification

Industrial “Hydromist” Ultrasonic Humidifier



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The "Hydromist" Industrial Ultrasonic Humidifier works on the Principle of Ultrasonic is designed to increase the relative humidity in an enclosed area. Ultrasonic humidifier is silent and produces a cool fog. The "Hydromist" Industrial humidifier designed to increase the relative humidity in an enclosed room area works on the Principle of **ULTRASONIC** Vibration it can attain RH levels as high as 99%. The system has a built-in humidity indicator & intelligent controller. Accurate & fast humidity control is exercised by intelligent controller. The diameter of water mist is only 1-6 μ . Its low power consumption saves energy costs. It consumes less than 90% power in comparison to steam based humidifiers. It is specially designed for various industrial applications where precise high RH levels need to be maintained continuously. It starts producing water mist immediately after few seconds it is started. Stainless steel body is attractive & long lasting. Water filling is automatic. It is a technology driven product for the future.

Feature of Industrial "Hydromist" Ultrasonic Humidifier:

- Humidity & Temperature indicator with intelligent control
- Auto Water Level Controller with Low water Trip
- Option for Remote operation and Control
- Option for Data Logging for Humidity and Temperature
- Size of water mist 1-6 μ .
- No compressors / water pressure pumps required.
- Low energy consumption.
- No condensation due to very fine water particle size.
- No Structural modifications required.
- Negligible maintenance, simplified even further due to portability of unit.
- High Grade Engineering Plastic & SS 304 components provides no corrosion
- Retro fit models available on request.

Applications of Industrial "Hydromist" Ultrasonic Humidifier:

- Cold Storages
- Ripening Chambers
- Controlled Environment Chambers
- Yarn Conditioning & Packing Sections
- Q.C. Labs & Research Chambers
- Weaving & Knitting Units
- Mushroom & Orchid Cultivation
- Horticulture, Tissue Culture & Nurseries
- Chicken Breeding Hatcheries
- Concrete Block Curing Chambers
- Meat Industry Cold Chambers
- Tea & Tobacco Industries
- High Grade Engineering Plastic & SS 304 components
- provides no corrosion
- Retro fit models available on request.

Water Quantity & Quality

The Humidifier is to be connected to a continuous water supply system. The Humidifier will draw the requisite amount of water from the supply system. On full capacity the humidifier will consume humidify 3 lit of water per hour. The water to be used for the system should be of low TDS (Less than 50 mg/lit) preferably, however the TDS can be up to 100mg/lit, but in this case the cleaning frequency of the ultrasonic sensor will increase.

Technical Details Of "Hydromist" Ultrasonic Humidifier HMUH Series Ultrasonic Humidifiers Operation of the Humidifier The Humidifier is made of SS sheet enclosure for long life and durability. It has a tank of water which has an inlet connection with automatic solenoid valve for filling by an external water supply system depending upon the level in the tank periodically & automatically. Hydromist Ultrasonic Humidifier features an ultra-quiet operation. The humidifier has a set of Ultrasonic Transducers located in the water bath at an appropriate level. When the normal AC supply is provided to the Humidifier it is converted to high frequency DC for operation of Ultrasonic Transducers. They start oscillating at ultrasonic frequency and the water molecules in contact with transducers are immediately converted into very fine mist. The diameter of mist fog molecules is between 1 ~ 10 micron. The mist so produced is pushed by an axial blower so that it starts discharging through the outlet pipe. This pipe can be connected to the chamber at an appropriate place while it is recommended to keep the Ultrasonic Humidifier out of the chamber. The humidifier has intelligent control module which can be set at a desired humidity level and will automatically regulate the humidity level at the required set point irrespective of initial humidity level. The system automatically regulates so that desired humidity is maintained irrespective of variable temperature. The humidity sensors are from renowned Japanese company and control precision is within $\pm 2\%$. The humidifier is easy to install or move from one location to other. Maximum relative humidity can be reached up to 99% RH above.

Technical Specifications of "Hydromist" Ultrasonic Humidifier

S No	Model	Humidity Capacity	Tank Volume	Power	Mist Volume	Dimension Front X Depth X Height	Weight
1	HM UH -3	3 kg/hr	13 Liters	300 W	100 CFM	380 x 380 x 325	19 kg
2	HM UH -6	6 kg/hr	14 Liters	600 W	200 CFM	380 x 550 x 325	20 kg
3	HM UH -9	9 kg/hr	20 Liters	900 W	300 CFM	380 x 700 x 325	28 kg
4	HM UH -12	12 kg/hr	25 Liters	1200 W	400 CFM	650 x 550 x 325	38 kg
5	HM UH -15	15 kg/hr	30 Liters	1500 W	500 CFM	650 x 720 x 325	48 kg
6	HM UH -18	18 kg/hr	35 Liters	1800 W	600 CFM	650 x 720 x 325	55 kg
7	HM UH -21	21 kg/hr	40 Liters	2100 W	700 CFM	650 x 880 x 325	65 kg



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