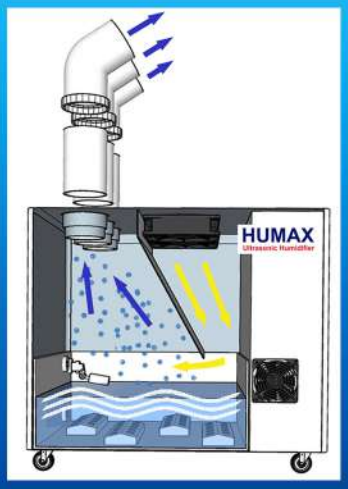
HUMAX

Ultrasonic Humidifier

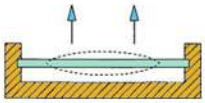
Model: HMU-series



Working principle



HMU-10S



Piezo-electric vibration



Transducer

The heart of Humax ultrasonic humidifier are a piezoelectric transducers emersed in the water bed, that converts a high frequency, electronic signal into a high frequency mechanical oscillation. As the oscillation speed is increased to a level where the water particles can no longer follow the oscillating surface, a momentary vacuum and strong compression occur, leading to the explosive formation of air bubbles (cavitation). At cavitation, broken capillary waves are generated and minute droplets break the surface tension of the water and are quickly dissipated into the air, taking vapor (1 micron diameter) form and absorbed into the airstream to humidify the control space.

Advantages of Humax ultrasonice humidifier

1. Maximum energy saving: 93% less electrical consumption in comparison with steam humidification.

2. Minimum connected load: Only approximately 7% of the connected load is required significantly lowering connection costs in comparison with electrode-type steam humidifiers,

3. Energy-saving cooling effect: Additional cooling takes place as a result of the adiabatic humidification

4. Minimal water consumption: No water lost against 30% loss of steam humidification and 70% of atomiser humidifiers

5. Immediate maximum humidification: Humidification takes place immediately.

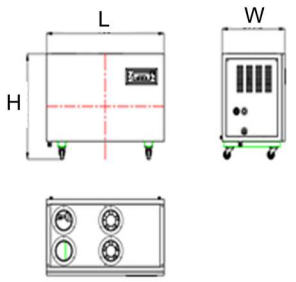
6. Maximum water vaporisation: As the particle diameter of the aerosols is only 0.001mm on average. Thus, the mist disseminates quickly and is very quickly absorbed by the air.



HUMAX ULTRASONIC HUMIDIFIER

Function

* Super fine humidification particles, fog particle diameter is only 1~10 micron
* Automatic control with current humidity display
* Automatic water supply with overflow protection
* Simple and convenient maintenance
* Uniform humidification maximum humidification control up to 99%
* Automatic water shortage shut-down
* Easy installation as stand-alone unit with duct or connection to air supply duct.



Model	Voltage	Power	Capacity	Diameter of fog outlet	Dimension	Net Weight
		(kW)	*kg/h*	*(mm)*	*(mm)*	*kg*
HMU-03S	220V 50hZ 1Ph	0.3	3	Φ110 - Single	530x360x470	25
HMU-06S		0.6	6	Φ110 - Single	530x360x470	29
HMU-10S		1.0	10	Φ110 - Double	760x465x661	45
HMU-15S		1.5	15	Φ110 - Three	760x465x661	55
HMU-18S		1.8	18	Φ110 - Three	650x780x520	60
HMU-24S		2.4	24	Φ110 - Four	850x682x527	70
HMU-30S		3.0	30	Φ110 - Four	850x682x527	80
HMU-90S	380V 50hZ/3Ph	8.1	90	Φ200 - Three	1270x831x1000	105
HMU-105S		9.2	105	Φ200 - Three	1270x831x1000	115

Usage recommendation

1. Room temperature: 5 ~ 40 o C
2, Water: clean neutral tap water
3. Water pressure: 1 bar

Notice:
As installation of the unit will effect greatly the humidification efficiency and perfomance. Therefore, let consult with our technician for advise on how to install the unit.

Typical application


Industrial humidification


Cooling & humidification for cultivation




Keeping display produce fresh


Humidification in cold storage


Humidification in warehouse