



Model 2001 and 2010—Ultrapure Cleanroom Foggers

- *A non-contaminating fog generator for producing high purity water fog for air flow visualization in cleanrooms*
- *Leaves no residue contaminants when droplets evaporate*
- *Suitable for photographic or video recording of air flow patterns in cleanrooms*



DESCRIPTION

The Models 2001 and 2010 are high purity fog generators for producing high density water fogs comprised of small water droplets suspended in nitrogen for air flow visualization in cleanrooms. These fog generators produce a highly visible fog by quenching steam with liquid nitrogen to produce small (~3 μ m in diameter), pure water droplets suspended in a nitrogen carrier gas. The resulting fog is highly visible and truly non-contaminating. They leave no measurable residues when the droplets evaporate in the cleanroom air. They can meet the most stringent demands of the modern semiconductor and pharmaceutical cleanrooms. The non-contaminating nature of these fog generators make them suitable for use in an operating cleanroom without interrupting the ongoing activities, including production taking place in the cleanroom.

FEATURES

- M2001 is a full size fogger for generating a steady fog stream for up to ~45 minutes in duration
- M2010 is a small, portable fog generator for generating a steady fog for up to ~ 25 minutes in duration
- Direct injection of steam onto to liquid nitrogen surface to vaporize liquid nitrogen to form a cold nitrogen gas. The cold nitrogen gas then mixes with the steam to form a high density neutrally buoyant fog of pure water

droplets for faithful air flow tracking in laminar flow or mixed flow cleanrooms over long distances.



Model 2010 Portable Cleanroom Fogger

APPLICATIONS

- Visualize and track air flow faithfully in cleanrooms to determine the airflow trajectory for:
 - Trouble shooting
 - Photographic or video recording of air flow patterns
 - Flow balancing

- Optimize equipment location to minimize contaminant transport to critical areas
 - Finding unsuspected particulate and gaseous contaminant sources
 - Finding route of air infiltration into the cleanroom
 - Visualize standing vortices in laminar flow cleanrooms
 - Study wake flow behind objects in vertical laminar flow and mixed flow cleanrooms
 - Operator training on good contamination control practices
- Air flow visualization in and around
 - Mini-environments
 - Clean benches and hoods
 - Ventilation and exhaust hoods.

SPECIFICATIONS

Subject to change without notice

Ultrapure Cleanroom Fogger

	M2001	M2010
Dimensions	533x406x381mm	457x356x356mm
(WxHxD)	21"x16"x15"	18"x14"x14"
Weight	25 kg (55lb)	20 kg (45lb)
Boiler volume	3 Liter	2 Liter
Dewer volume	9 Liter	3 Liter
Power	115VAC 50/60Hz 15A	115VAC 50/60 Hz 10A
Optional	220VAC 50/60Hz 10A	220VAC 50/60Hz 10A

Standard Accessories Provided

2.5 meter (8 ft) of nominal 30mm (1-1/4") diameter flexible fog hose and wand

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