



## Model 2001—Ultrapure Cleanroom Fogger

- *Non-contaminating, ultra-pure water fog generator 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*
- *Fog generator of choice for USP<797> compliance*



### DESCRIPTION

The Model 2001 Fogger is an ultra-pure fog generator designed for air flow visualization in cleanrooms. The Fogger produces high-density fog by quenching steam with liquid nitrogen to produce small (~3 $\mu$ m in diameter), pure water droplets suspended in a nitrogen carrier gas. The resulting fog is highly visible and truly non-contaminating. The droplets leave no measurable residues when they evaporate in the cleanroom air. The Fogger is designed to meet the most stringent demands of the modern pharmaceutical and semiconductor cleanrooms. The non-contaminating nature of the Fogger makes it suitable for use in an operating cleanroom without interrupting ongoing production or other activities taking place in the cleanroom.

### FEATURES

- Full-size fogger for generating a steady fog stream for up to ~45 minutes
- Small (~3 $\mu$ m) droplet size and neutrally buoyant fog for airflow tracking over long distances
- Equipped with 2.5-meter flexible hose and 3-piece extendable wand assembly for convenient directional control of fog output
- 90° angle wand attachment and double length hose-configurable



## APPLICATIONS

- Visualize and track air flow faithfully in cleanrooms to determine the airflow trajectory for:
  - Troubleshooting
  - Photographic or video recording of air flow patterns
  - Flow balancing
  - Optimizing equipment location to minimize contaminant transport to critical areas
  - Finding unsuspected particulate and gaseous contaminant sources
  - Finding routes of air infiltration into the cleanroom
  - Visualizing standing vortices in laminar-flow cleanrooms
  - Studying 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
  - Architectural features such as doors



## SPECIFICATIONS

*Subject to change without notice*

### Ultrapure Cleanroom Fogger

|               | <b>M2001</b>        |
|---------------|---------------------|
| Dimensions    | 533 x 406 x 381 mm  |
| (WxHxD)       | 21" x 16" x 15"     |
| Weight        | 25 kg (55 lb)       |
| Boiler Volume | 3 L                 |
| Dewar Volume  | 9 L                 |
| Power         | 115 VAC 50/60Hz 15A |
| Optional      | 220 VAC 50/60Hz 10A |

### Standard Accessories Provided

2.5 meter (8 ft) of nominal 30 mm (1-1/4") diameter flexible fog hose and 3-piece wand with 90° angle attachment.

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