



Zero-Residue Cleanroom Fogger

Model 2001



Provides the best price-to-performance for visualization of cleanrooms, fume hoods, and semiconductor equipment

MSP's Zero-Residue Cleanroom Fogger 2001 delivers maximum visibility, zero-residue fog generated by mixing steam and liquid nitrogen.

MSP received the first patent on mixing steam and liquid nitrogen in 1988, and has sold hundreds of units over the decades since. Our fogger design emphasizes simplicity and robustness for a long product life and minimal problems during use. It provides the maximum possible fog volume output based on standard electrical power.

Fogger process

- Boils water using electrical energy
- Passes boiling water into a reservoir of liquid nitrogen
- Heat energy in the steam evaporates the liquid nitrogen
- Cold liquid nitrogen cools down the steam until high density, small water drops condense
- Outputs residue-free water droplets in nitrogen gas

Features

- Generates high-density fog for up to 45 minutes
- Produces small ($\sim 3\mu\text{m}$) droplet size and neutrally-buoyant fog for airflow tracking over long distances
- Includes a flexible 2.5-meter hose and three-piece extendable wand assembly for directional control of fog output
- Custom hose lengths are also available
- Water and liquid nitrogen fill sensors
- Drains excess water and liquid nitrogen easily

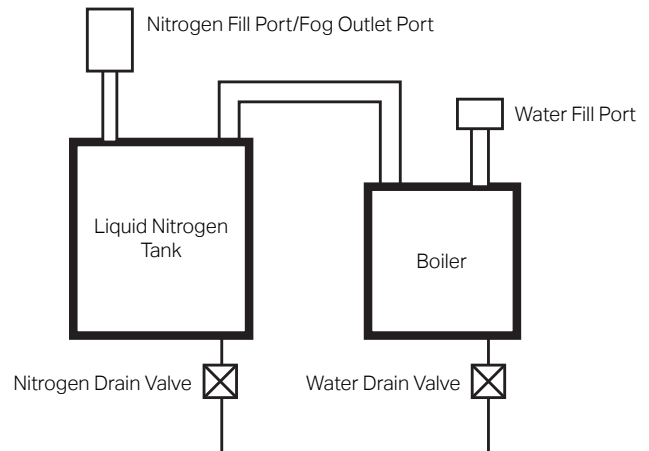
Specifications

Zero-Residue Cleanroom Fogger

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Equipment Features	
Electrical	115VAC, 50/60Hz, 15A or 220VAC; 50/60Hz, 7.5A
Dimensions, (W x D x H) (in)	21 inch x 16 inch x 15 inch
Weight	55lbs (empty), 75lbs (full)
LN ₂ Tank	9L
H ₂ O Tank	3L
Process Specifications	
Fog Source	Liquid Nitrogen/Water
Fog Output	Water drops in nitrogen gas
Volumetric Fog Output	165 L/min*
Water Vaporization Rate	37.2 g/min*
Water Droplet Size of Fog	D10≈3-3.5 μm
Warm Up Time	8 minutes from room temperature to 100°C (time for water to begin boiling)
Safety Features	
Skin Temperature	≤30°C
Boiler Cap	Vented
Pressure Relief	Included as standard
Drain	Stainless Steel
Sensors	Fill & Empty
Logistics	
Lead time (PO to shipment)	Typically in-stock to 5 business days
Certification	Comes with factory-provided certificate
Warranty	1 yr from date of ship, see full TSI® Terms and Conditions

*At 1400W power consumption, limited by electrical power to boil water



To Order

Voltage Options

Specify	Description
2001-01-1004	Ultrapure Portable Cleanroom Fogger, Model 2001 (115 VAC)
2001-01-0002	Ultrapure Portable Cleanroom Fogger, Model 2001 (220 VAC)

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MSP - Visit our website www.tsi.com/msp for more information.

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