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Nano Particle Technology

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AP32, Ultrapure Fog Generator

The AP32, Ultrapure Fog Generator, provides the highest volume of pure fog at 46 CFM for 90 minutes supplying 20–30 feet of visible airflow in clean rooms, sterile rooms and ISO suites; surpassing all other ultrapure foggers in use today.

Patterns of air flow, turbulence and velocity can be viewed with a non-contaminating fog; thus no clean up is required. The Apollo 32, Ultrapure Fog Generator is used in Semiconductor and Pharmaceutical companies to visualize airflow in ISO suites, sterile rooms, clean rooms and barrier isolators. The ultrapure fogger provides a very dense fog by generating vapor droplets at 3 micron diameter, permitting the fog to travel much further in the air stream. As the fog evaporates, it reverts back to the same elements we breathe. The exit temperature of the fog is about 78 F degrees with a very low exit pressure, ensuring a neutrally buoyant fog entering the airflow. The high purity fog floats into the airflow, rather than dropping as with ultrasonic foggers. A polycarbonate Fog Tube and long, flexible, 15 foot, (5M) Fog Hose is provided. The ultrapure fogger rolls easily across a floor with wheel casters underneath, and a front storage drawer is provided.

Advantages:

Very High Fog Density	Providing from 20-30 feet visible airflow distance
Highest Fog Volume	46 CFM easily visualizes airflow turbulence & patterns
Low Fog Exit Pressure	No fog entry turbulence is created
Ultrapure Fog, SS Enclosure	No cleanup required, no contamination to fog or clean room
Neutrally Buoyant Fog	Fog floats into airflow without dropping
Video Capabilities	Video of the airflow turbulence is very easy with dense fog
Fog Curtain Wand	Optional Fog Curtain Wand to spread out the fog visibility
Fog Illumination	Optional Blue LED Fog Illuminator to contrast airflow



AP32, Ultrapure Fog Generator

Fog purity is achieved by bringing DI water to boil creating an ultrapure water vapor. The DI water vapor is then combined with LN2 (LNG) liquid nitrogen, which boils at room temperature. The two vapors combine to form a highly dense, ultrapure fog to visualize airflow, patterns and turbulence in clean rooms, ISO suites and sterile rooms. The fog generated is the highest volume, highest density, highest purity to visualize airflow and turbulence. The fog is neutrally buoyant, thus when entering the airflow, the fog travels with the airflow, rather than first dropping as with ultrasonic foggers with lower temperature fog outputs.

The high purity fog offers no exit turbulence to the airflow being visualized due to a low exit pressure. The AP32, Ultrapure Fog Generator fog leaves no contamination behind; requiring no cleanup after fog operations. The very high fog density increases the airflow visualization distance. The Stainless Steel enclosure contains the liquid nitrogen in a Dewar and holds the DI water in a separate boiler, ensuring a durable design. The AP32 is CE Mark, meets guidelines for ISO 14644-3 ANNEX B7 and USP 797 Insitu Airflow Analysis.

Visualize airflow patterns around equipment, tools, hallways, door entries and personnel. Balance airflow pressure on two sides of a closed clean room or ISO suite. Locate standing vortices that can transport particle contamination into critical work areas and sterile rooms. Visually track air flow direction and velocity to ensure air flow balance between clean rooms, ISO suites and sterile rooms. Detect unwanted air infiltration into a clean room to verify process environments are operating properly. The Apollo 32, AP32, Ultrapure Fog Generator produces a very dense, ultrapure fog, providing superb visual & video observations, making it the very best clean room fogger available today. A Blue LED Illuminator is available to contrast and highlight airflow turbulence.



Very Dense Fog



Wide Fog Curtain



Blue LED Illuminator

Specifications:

Part #	AP32, Ultrapure Fog Generator
Fog Duration	90 minutes
Fog Volume	46 CFM
Fog Type	UltraPure for Class 1 to Class 10,000 use
LN2 (LNG) Dewar Capacity	32L, 8.45 US Gallons
DI Water Boiler Capacity	5L, 1.32 US Gallons
Dimensions	1.095M H x 540mm W x 766mm D, 42.7" H x 21" W x 29.9" D
Weight	77kg, 170lbs
Optional Accessories	15 foot Hose, Long Fog Curtain Wand, Duplex Hose Splitter, Blue LED Fog Illuminator

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