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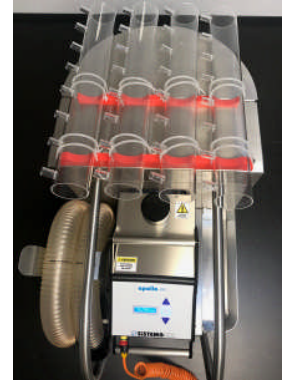
Nano Particle Technology

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Cleanroom Ultrapure Fogger, Apollo 32

The Apollo 32, (AP32) Cleanroom Ultrapure Fogger produces a high volume of ultrapure fog needed for 3D video and visual airflow confirmation in clean rooms, sterile rooms, ISO suites and medical rooms. The AP32 provides an adjustable 2-5 cubic meters per minute (174 cubic feet / minute) for up to 90 minutes to visualize airflow for 20 – 30 feet; surpassing all other ultrapure foggers with 2X more fog volume and visible airflow distance for about the same cost as other ultrapure foggers.

Patterns of air flow, turbulence and velocity can be viewed with a non-contaminating fog; thus no clean up is required. The AP32 ultrapure fog generator is used in Semiconductor and Pharmaceutical companies to visualize airflow patterns, turbulence, find dead zones, see direction and visualize velocity. The ultrapure fogger provides a very dense fog by generating vapor fog droplets at 2-3 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. A front storage drawer is provided.



AP32 shown with Fog Wands

AP32 Advantages:

- Very High Fog Density** Providing from 20-30 feet visible airflow distance, 90 minutes
- Highest Fog Volume** 2-5 Cubic Meters (170 CF) per minute, Adjustable
- Low Fog Exit Pressure** Minimal fog entry pressure 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

Fog purity is achieved by bringing DI water to a high temperature 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 dropping in the airflow, as with ultrasonic foggers that produce 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, Cleanroom Ultrapure Fogger fog leaves no contamination behind; requiring no cleanup of any kind 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, as well as 3D airflow modeling 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 ultrapure fogger available today. A Blue LED Illuminator is available to contrast and highlight airflow turbulence.



Very Dense Fog



Wide Fog Curtain

Specifications:

- | | |
|----------------------------------|--|
| Part #: AP32 | Cleanroom Ultrapure Fogger, Apollo 32 |
| Fog Duration | up to 90 minutes |
| Fog Volume / Minute | 174 CF / minute, 5 Meters³ / minute, Adjustable Flow |
| Total Fog Volume Produced | 15650 CF / 90 minutes, 450 Meters³ / 90 minutes, Adjustable Flow |
| Fog Type | UltraPure for Class 1 to Class 10,000 use |
| LN2 (LNG) Dewar Capacity | 32L, 8.5 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 |
| Full Weight w/ LN2+DI H2O | 77kg, 170lbs |



Blue LED Illuminator

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