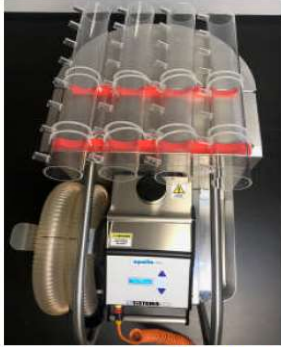




Applied Physics, Inc.

Cleanroom Ultrapure Fogger, AP35



AP35 with Optional Fog Wands



Very Dense Fog



Wide Fog Curtain

The **AP35, 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 AP35 provides about 5 cubic meters of ultrapure fog per minute with 533 ml / minute fog density for up to 75 minutes to visualize airflow for 20 to 30 feet; surpassing all other ultrapure foggers with 2X more fog volume, 2X more fog density and 2X more visual 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 AP35 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 air 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. Included is 1) Remote Control Wireless FOB; 2) 5 M x 88mm, transparent Fog Hose. The ultrapure fogger rolls easily across a floor with wheel casters. A front storage drawer is provided to hold small accessories. 9 optional accessories are available.

AP35 Advantages:

Very High Fog Density
Highest Fog Volume
Low Fog Exit Pressure
Ultrapure Fog, SS Enclosure
Neutrally Buoyant Fog
Video Capabilities
Fog Curtain Wand
Fog Illumination

Provides 533 ml / minute fog density with 20-30 feet visible airflow for about 75 minutes about 5 Cubic Meters per minute, Adjustable Fog volume output
Minimal fog entry pressure is created
No cleanup required, no contamination, fog evaporates back to air we breathe
Fog floats into airflow without dropping
Video of the airflow turbulence is very easy with dense fog
Optional Fog Curtain Wand to spread out the fog visibility
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, 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 AP35, 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 AP35 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 AP35, Cleanroom Ultrapure Fogger 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.

Specifications:

Part #: AP35	Cleanroom Ultrapure Fogger
Fog Duration	up to 75 minutes
Fog Volume / Minute	5 Meters ³ / minute, Adjustable Fog Volume Control
Total Fog Volume Produced	375 Meters ³ / 75 minutes
Fog Type	UltraPure for Class 1 to Class 10,000 use
LN2 (LNG) Dewar Capacity	35L, 9.24 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 Remote Control

