



Applied Physics, Inc.

3800 Pike Road, #16-204
Longmont, CO 80503 USA

Nano Particle Technology

Cel 1-720-635-3931
Email Sales@AppliedPhysicsUSA.com
Web www.AppliedPhysicsUSA.com

CleanRoom Fogger™



- Fogger compliant with USP 797 Pharmaceutical and Semiconductor Guidelines
- White Polypropylene enclosure resistant to fingerprints, as opposed to SS Foggers
- Creates pure fog using DI Water or Pharmaceutical WFI (Water for Injection) Water
- Video airflow patterns, pressure differences, air flow and Turbulence
- Pharmaceutical Barrier Isolators, Glove Boxes & ISO 3-9 Pharma suites
- Fogger startup is < 1 minute, refill in 60 minutes to restart if needed
- Typical 8 CFM of Fog for 60 Minutes of with Instant On/Off Fog Control
- Water Fill Level Marker, Drain Release and Holding Handle on top of fogger
- Optional Rolling Carry and Storage Case with Extendable Handle
- Optional Fog Curtain Wand to create wide wall of visualization
- Optional 5 Meter Power On/Off Cable / Switch - Remote Power Control Behind Walls
- Extendable, White Fog Hose, 30" ~ 72" with 2.35" ID and 2.6" OD
- Low Water Sensor to protect 9 transducers
- Operating Instruction Label, no paperwork is needed in clean room

The **CleanRoom Fogger (CRF)** uses 3 Liters of DI Water or WFI (water for injection) water, which is converted to visible water vapor at a high rate of 50ml per minute. The fogger is designed for low cost, easy to use operation and visualization of airflow, patterns and turbulence with instant on/off fog control. This Cleanroom Fogger is used in Pharmaceutical ISO 1-9 suites and barrier isolators; as well as in Semiconductor Clean rooms to balance airflow and visualize turbulence around equipment. The visible fog distance is 6-8 feet, dependant on velocity of airflow and level of humidity in the clean room. The fog output is typically 68 degree Fahrenheit, and is a visible vapor composed of microscopic DI water droplets (fog) at 5-10µm droplet size. The fog is pure using DI Water, ultrapure DI Water or WFI Water; **and does not require wipe down of the clean room after use.** 16 Meg Ohm, DI water is normally used, as well as 64 Meg Ohm DI Water or Distilled WFI Pharma water. The fogger cost is kept low to support tight budgets, as compared to ultrapure foggers. Ultrasonic transducers convert 50 milliliters of pure water each minute for about 60 minutes, converting water directly to microscopic water vapor, which is one of the highest fog densities of DI Water Foggers available. A low water sensor protects 9 transducers during operation. Also provided is a visible fill line indicator, to ensure the operator fills water to the proper fill level. The Cleanroom Fogger enclosure is made of a white polypropylene material, which prevents fingerprints that can cause organic growth and contamination. Polypropylene allows for quick, easy wipe down of the fogger after use, while preventing fingerprints as encountered on instruments using SS enclosures. A top holding handle provides easy handling of the fogger for storage. The fogger is used in bench top, on cart tops as well as trolleys.

A power supply using 110VAC or 220VAC is provided. The A flexible, white fog hose is oriented in any direction for a fog stream output; or the **Fog Curtain Wand** option can be plugged into the Fog hose to create a wide fog wall while reducing fog output pressure and velocity. A **5 Meter Remote On/Off Power Cable** is optional letting the fogger to be controlled for instant on/off power behind a closed wall or inside a barrier isolator for example. A **Carry and Storage Case** with wheels is optional to store the fogger or transport. Operating Instructions, Notes and Specifications are labeled on the right side of the fogger, no paper in the clean room. [Video Link of the Fogger](#) for **Semiconductor, Medical and Pharmaceutical** use.



CleanRoom Fogger with Optional **5M Remote Power On/Off, Cable/Switch** 110/220VAC, Bench Top/Cart Operation



Optional **Fog Curtain Wand** to create a **Curtain Fog** Visualize Airflow / Turbulence



Optional **Rolling Carry / Storage Case** to protect fogger parts during storage and transport.