The **Model 2001 and 2010 Cleanroom UltraPure Foggers™ are** portable fog generating tools producing a highly dense, visible fog to visualize air flow, turbulence and velocity leaving no residue and requiring no cleanup afterwards for Semiconductor and Pharmaceutical facilities. Traditional DI Water Foggers atomize DI Water along with any impurities into large, low density, water droplets at 5 to 10psi output pressure; while **UltraPure Foggers** provide up to 4x higher volume, much higher density of fog, highest purity and lowest pressure output of clean room foggers produced today.

Purity is created by bringing de-ionized water to a boil, creating a vapor; simultaneously using gravity and electrical ground to remove background DI Water residue and any bacterial agents from the vapor. The pure vapor is then passed over an LN2 bath, which boils at room temperature. Vast quantities of water molecules and nitrogen molecules combine in a quenching process, creating a high volume, highly visible, ultra pure fog. The exit temperature is about 80 degrees F, rising slightly as the fog enters the airflow and quickly cooling to the surrounding airflow temperature.

The UltraPure fog has **offers no exit turbulence to the airflow you are fogging** due to an exit pressure of < 0.3 psi. The ultrapure fog **leaves minimal trace residue behind**; thus can be used in any clean environment from Class 1 to 10,000 and **requires no cleanup after use**. It evaporates to its gaseous hydrogen, oxygen and nitrogen components, natural to the Clean room environment. The **high density fog increases the duration and travel distance** of the fog. Enclosure is a high impact, white powder coat.

UltraPure Fog is used in Semiconductor and Pharmaceutical environments to visualize the airflow patterns around equipment, tools, hallways, door entries and operators. It is also used to locate standing vortices that may transport airborne contaminants into critical work areas. It is used to visually track air flow direction and velocity, to insure an even flow split from the clean room bays into the adjacent equipment chase and to detect unwanted air infiltration into a clean room. UltraPure Foggers are used in Pharmaceutical Processes to prove process environments are operating properly, as required by the US FDA; replacing Smoke Stick usage to vastly reducing cleanup labor and contamination as a result using Smoke Sticks in the past in Pharmaceutical environments.

UltraPure Cleanroom Foggers for Semiconductor and Pharmaceutical Use

1. Provide highly dense fog, lasting longer in a typical environmental airflow of 30 to 50% humidity
2. Nearly zero level of residual contamination emitted in the airflow for Class 1 to 10,000 use
3. Provide high volume of pure fog at very low output pressure for minimal output turbulence
4. Replace Pharmaceutical Smoke Stick usage; reducing cleanup labor and contamination
5. No moving parts, thus providing very high reliability

SPECIFICATIONS

	Model 2001	Model 2010
Fog Duration	**50 - 60 minutes**	**24 - 25 minutes**
Fog Volume	**15cfm**	**10cfm**
Fog Type	**UltraPure**	**UltraPure**
LN2 Dewar Capacity	**9L (8.5 Qts)**	**3L (2.8 Qts)**
DIWater Boiler Capacity	**3L (2.8 Qts)**	**2L (1.9 Qts)**
Dimensions (Wx D x H)	**53.3 x 38.1 x 40.6cm, 21” x 15” x 16”**	**45.7 x 35.6 x 35.6cm, 18” x 14” x 14”**
Weight (full)	**25kg, 55lbs**	**20kg, 45lbs**
Accessories (Included)	**9 ft. Hose,Tube, Fog Stream, Fog Rake**	**9 ft. Hose, Tube, Fog Stream, Fog Rake**

MSP CORPORATION **5910 Rice Creek Parkway, Ste 300 Shoreview, Minnesota 55126 USA**
TEL 651-287-810 FAX 651-287-8140 EMAIL sales@mspcorp.com www.mspcorp.com