



ReinRaum
Elektronik GmbH
Your partner for particle measurement engineering

Production "Made in Germany"
Particle monitoring
Particle counters for gas, air and liquids
Aerosol generators and Dilution Systems
Calibration and service for measuring instruments
QMS certification according to DIN EN ISO 9001:2008

FOG Generator 2010

This very handy but powerful fog machine is a usable fog machine of small size. Very rigid constructed the FOG 2010 is equipped with an external tank holder, several signal lights, an output control valve, special hose attachment and best of all fog nozzle attachment which allows the application of several fog directing nozzles. A remote control plug for attaching electronic remote controls is standard. The powerful fog output makes the FOG 2010 useful for small and larger fog effects. The INSIDE fog fluid „EXTRA CLEAN“ is a special fog fluid for air flow detection in pharmaceutical clean rooms.



APPLICATIONS

- > Clean room + Facility Monitoring
- > Facility Certification
- > Filter Testing
- > Semiconductor Industry
- > Pharmaceutical Industry
- > Medical Device
- > Food Processing Area
- > Clean room Packaging
- > Aerospace
- > Hospital Surgical Rooms
- > Hard Disk Drive Manufacturing

BENEFITS

- > 2 year warranty
- > User friendly interface
- > Small dimensions
- > only 6 kilogram light-weight

DETAILS

The INSIDE fog fluid "EXTRA CLEAN" is a fog fluid especially developed for air flow investigations in general, in particular in pharmaceutical clean rooms, which is to be used in fog generators FOG 2010.

The product consists exclusively of pharmaceutical process materials of the polyfunctional oxyalkanes type with an extraordinarily high purity standard complying with the regulations of European Pharmacopoeia or to DAB 10 respectively USP.

When used with appropriate FOG 2010 the product generates an absolutely non-toxic and sterile indoor fog which entirely volatilizes after some time.

The ingredients of the fog fluid were especially chosen for the intended purpose: They possess a light anti micro biotic effect and each for themselves are therefore at least bacteriostatic, in totality even bactericide, so that the fluid is germ-free even without any means of preservation. No ingredients to impair germicides are contained, either. Moreover the hot sterilization at about 300°C during vaporizing secures that the fog particles do not contain germs, nor can they serve as a nutrient medium for germs.

Because all components of the fog fluid are finally one-hundred-percent volatile, it is guaranteed that particles possibly subsided after vaporization volatilizes after a few hours of appropriate room ventilation at normal room temperature (approx. 21 °C). Thus, no detectable residues are left in the clean room.

Since all components are easily and one-hundred-percent water-soluble, it is no problem at all to completely remove, for instance, spilled amounts of the fluid with water. Nevertheless, the operating instruction of the FOG 2010 must be observed by all means.

Particularly the fog flow should not be applied directly within short distance onto cold metallic or ceramic surfaces, because it inevitably creates there a temporary precipitation of the fog fluid. The correct and usual application is directing the fog as far as possible freely in the room or the investigated flow (keep a distance to objects according to the strength of the fog flow of 1 - 2 m).

Fog particles are aerosols consisting of microscopic liquid droplets with a particle size of 0.5 to 2.0 µm, which are retained, for instance, by regular textile air filters. Heavily loaded filter fabrics lose their self-cleaning properties due to increasing air resistance. Also, damp filters and filters heavily loaded with organic particles cannot be granted to be absolutely germ-free, despite the properties of the fog fluid. Therefore, it is recommended to clean or change filters after very frequent, long-lasting and extensive fog production.

In closed and partly closed air circuits it is to be cared temporarily for an adequate air exchange if the removal of fog fluid components that have dissolved into the vapor or gas phases should be secured.

TECHNICAL DATA

Fog fluid consumption:	max. 85 ml/min.
Fogging power:	approx. 470 m ³ (visibility of 0.5 m in a room of 5 x 8 x 2.5 meter) res. approx. 1000 up to 1600 m ³ within 4 min. (visibility of 3 - 5 meter)
Heating up time:	approx. 5 minutes
Tank bottle:	0.3 litres
Remote control:	8-pole remote control socket - low voltage possible!
Fog fluid:	all Inside-Nebel- and FOG&Go-fluids
Electrical data:	230 Volt AC/50 Hz - 1650 W - Fuse: 10 Amp.-semi time-lag (110 V resp. 60 Hz upon request)
Length:	340 mm (Nozzle/Remote control socket + 100 mm)
Height:	145 mm (with handle 170 mm)
Width:	170 mm

ACCESSORIES

Included:	3 m flexible power cord, tank holder, tank bottle with suction hose and filter, instruction manual, external tank lid (canister) with suction hose, remote control, hose, hose adaptor for ducting hose
Optional:	several fog nozzles, fog fluid "Extra Clean"

Safety Guarantee

The INSIDE-fog-fluid "EXTRA CLEAN" is no dangerous or harmful substances, nor do they contain such substances in the sense of national and international regulations.

Definitely none of the components is a substance or preparation which could in any way be classified as dangerous during contact, storage, transport or application.

This is valid for German, European, American and other international legal requirements or technical norms. All statements are valid for healthy young persons and adults.

Safety Statement for INSIDE-Fog-Fluid „EXTRA CLEAN“

Sick persons or persons suffering from asthma and children should for general reasons avoid coming into contact with any kind of smoke, dust or fog.

Those persons can due to their increased sensibility, react with a strong feeling of anxiety to an unexpected confrontation with fog.

Asthmatics, being already sensible to humid or cold air, should not be exposed to artificial fogs of any kind or if necessary only in very low concentrations and after prior information about the planned application.

Sensible persons may be irritated by any non-atmospheric substances in any concentration, even when such substances are chemically and toxicologically completely harmless.

Non-poisonous (toxicologically harmless) substances may not be imposed to person against their will and may not be sprayed onto unpacked foodstuffs or in rooms where food will be prepared (impairment of food regulations by materials of foreign matter).

If persons feel irritated after they came into contact with fog produced with INSIDE-Fog-Fluid "EXTRA CLEAN" it is recommended that they should not be further exposed to the fog until the causal relationship can be fully excluded. This is to avoid that a possible individual sensibility is intensified.

Primarily all new or in regular intervals serviced fog generators FOG 2010 are suited for the INSIDE-Fog-Fluids.