

WRITE UP ON AEROSOL SS GENERATOR

Model: **Micro-Mist**

Electrically operated SS fogger machine for Pharmaceutical- Biotech & Food Industries.
Hospitals - Research Laboratories & Blood banks.

- ◆ Operating Conditions: 230 Volts ,50 Hz AC Single phase supply
Full Load Current : 3.5 Amps.
Portable Model.
- ◆ Sound level dB < 86dB @ 1 meter
- ◆ Capacity of tank [net] : 3.0 liters. Enables fumigation of 5000 cft in one charge.
- ◆ Jet out-put in closed room : 15 to 20 minutes per liter.
Output at given RPM is fixed at ideal supply conditions The conditions stated are for the supply-frequency of 50 Hz subject to standard variations as per IEMA.
- ◆ Droplet Size Tested: Sub Micron [less than 1 micron]. Thus offers 100% efficacy.
- ◆ Jet Throw in closed Room [still-air conditions] 6 mts.
The jet throw is recorded in closed room without running of A.C or fan. These are linear flow Conditions. Nanotech is dedicated to closed rooms. Hence jet throw in open is immaterial.
- ◆ **Timer** , best available make, imported and UL approved, is incorporated with the machine which enables the machine to switch off automatically. The Timer Dial is specially calibrated for time in minutes as well as volume (in Ltrs.) of liquid making it userfriendly.

The machine is sturdy & rugged, designed for varying atmospheric conditions in the country. The motor can sustain the temperatures ranging from ambient 5 deg Celsius to 50 deg Celsius. The machine can be run continuously however due to continuous run the life of the motor gets affected to an extent. 2-3 hours continuous run will not make much difference. Blast-air will shear the particles into fine microns. The inbuilt fine-tuning facility will permit time to shear the particles effectively. The droplet size is measured in mass median diameter. Your machine can shear the drops within one micron.

The nozzle design is dedicated to different types of clear formulations of the disinfectants available. **The density of liquid should not exceed 1.05**. The nozzle **will not** discharge viscous liquids like insecticides, oils etc. The machine is not recommended for inflammable liquids and formaldehyde.

Material of Construction

- ◆ The tank is in pure-grade non-magnetic stainless steel. As such it's compatible to all disinfectants having pH value range from 1.5 to 11.
- ◆ Tank bottom is designed to permit 100% suction. This will help eliminating residue of the liquid at the bottom of the tank.
- ◆ All Hardware such as Bolts, Nuts , Screws etc. are non magnetic stainless steel.
- ◆ The liquid passes through a sieve in the funnel as well as at the suction-entry. This will prevent entry of dust / foreign bodies through the nozzle. As such clogging of nozzle will not arise due to dust.
- ◆ The single core three wire supply cable provided is of best quality copper cable that sustains much more current than the full load rated current.
- ◆ Supply cable, molded plug and switch have 15 Amps rating. This provides 400% extra current carrying capacity over the full load current. **All electrical items including motor are tested to 3 KV HV tests.**
- ◆ The tank can be charged through the funnel, without removing top cover.
- ◆ Each machine is thoroughly tested at works before dispatch.

The machine is maintenance free. Unless misused. For smooth & trouble free operation strictly follow the instructions in the "**Operation & Maintenance Manual**" provided with each machine.

Marketed By: KANCHAN AGENCIES

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The only AROSOL GENERATOR giving droplets in sub-micron size.

Model : **Micro-Mist**

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TECHNICAL SPECS OF AEROSOL GENERATOR

Model: **Micro-Mist**

Electrically operated fogger machine for Pharmaceutical- Biotech & Food Industries.
Hospitals-Research Laboratories & Blood banks.

230 Volts 50 Hz AC
Full Load Current: 3.5 Amps.
Single phase supply.
Portable Model.

DIMENSIONS

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AEROSOL GENERATOR

X'tra Low Volume fogging machine [Model: **Micro-Mist**]

The machine is sturdy & rugged, designed for varying atmospheric conditions in the country. The motor can sustain the temperatures ranging from ambient 5 deg Celsius to 50 deg Celsius. The machine can be run continuously however due to continuous run the life of the motor gets affected to an extent. 2-3 hours continuous run will not make much difference. Blast-air will shear the particles into fine microns. The inbuilt fine-tuning facility will permit time to shear the particles effectively. The droplet size is measured in mass median diameter. Your machine can shear the drops within one micron.

The nozzle design is dedicated to different type of clear formulations of the disinfectants available. **The density of liquid should not exceed 1.05** The nozzle **will not** discharge viscous liquids like insecticides, oils etc.

SAFETY OF THE MACHINE

- The design covers the total safety. The motor is fully encased in the blower-head, which also acts as a guard. No rotating parts are exposed to human touch. Do not touch the cone while in operation. It gets heated due to air-friction. The cooling time is 10 to 15 minutes after switching off. The back cover permits entry of the fresh air and also works as the guard.
- A secured electrical grounding connection is provided to eliminate electrical shocks. Ensure proper grounding connection in plug socket at the supply side before switching on the machine.
- A separate fuse can be provided on demand to prevent motor from overloading. However this will create a chronic problem, since the voltage variation at different places will keep on tripping the machine. Hence such fuse is advisable only if the supply conditions are steady.

- The tank will not permit spillage of the disinfectants which are normally oxidizing agents &/or corrosive.
 - The tank is in pure-grade non-magnetic stainless steel. As such it's compatible to all disinfectants having pH value range from 1.5 to 11.
 - Tank bottom is designed to permit 100% suction. This will help eliminating residue of the liquid at the bottom of the tank.
 - The liquid passes through a sieve in the funnel as well as at the suction-entry. This will prevent entry of dust / foreign bodies through the nozzle. As such clogging of nozzle will not arise due to dust. A separate pin is provided to clean the nozzle off dissolved CaCO₃ in ordinary water. Water when autoclaved, eliminates this problem. As such, **cleaning of nozzle passage after every fogging is a healthy practice & is mandatory.**
 - The single core three wire supply cable provided is of best quality copper cable that sustains much more current than the full load rated current.
 - **Supply cable, molded plug and switch have 15 Amps rating. This provides 470% extra current carrying capacity over the full load current. All electrical items including motor are tested to 3 KV HV tests.**
 - The tank can be charged through the funnel, without removing top cover.
 - Whenever tank needs to be cleaned from inside, remove three wing nuts placed at 120 deg. Pull the cone up and tank will be separated for cleaning.
 - While making reassembly, ensure suction filter assembly touching the bottom of the tank. This will avoid residue.
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- The wetted parts as well as rest parts like mounting plate, hardware etc. is of compatible materials. Thus reason for rusting, corrosion, erosion / pitting is totally eliminated even in extreme weathers / operating conditions.

Periodic Maintenance

- The nozzle hole needs to be cleaned after every fogging. Pierce it with the pin provided.
- The design parameter of the machine eliminates recurring maintenance.
- The nozzle has a fine spraying mechanism. Ensure presence of filter in the funnel before charging the liquid.
- **Ensure air-filter in place before switching on the motor. This will avoid direct entry of moisture into the motor. Clean this filter after every fogging operation. Dry it thoroughly before replacement. If you are using FORMALDEYHIDE the filter gets clogged in one use. Eco-friendly disinfectants will save operational problems.**
- During operation, the blower head gets warmed up. Do not touch the blower head while the unit is in operation. The cooling time is 10 to 15 minutes after switch-off.

Micro-Mist machines are protected with 12 month's warranty* against manufacturing defects from the date of supply from our end. The imported motor carries warranty for 6 months from the date of supply.

**The warranty stands void if the seal of the machine is tampered.
Refer our warranty card.**

[* Electrical components like switch, supply cord and the main motor cover conditional warranty.
Fluctuating supply voltage / low voltage for prolonged periods can damage the motor]

AFTER-SALES SERVICE

The machine will hardly demand after sales service. However for any operational problems, refer trouble shooting chart & correct the situation. When solution not found, remove the top cone & dispatch it to us through courier, along with “ **Micro-Mist Feed Back Card** ” duly filled in. We shall return the machine to you duly attended within reasonable time

- In the event of any problem / confusion please contact us directly to get an instant solution over phone [Tel:0240 – 2452243/2451033/ email- [sushil@a2f-filters.com], before dispatching the machine to us.
- Remove wing nuts, detach the blower-head & courier it to us in case of major problem. The blower assembly will be returned to you duly attended & tested with fault analysis.