



KANOMAX

The Ultimate Measurements

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TABLE OF CONTENTS

INTRODUCTION	1
IMPORTANT SAFEGUARDS	2
HOW THE MACHINE PRODUCES FOG	5
OPERATING INSTRUCTIONS	5
DO'S AND DON'T	7
MAINTENANCE	8
FOG DISTRIBUTION	9
REPAIRS	10
RETURNS	11
STORAGE AND SHIPMENT	11
LIMITED WARRANTY	12
TECHNICAL SPECIFICATIONS	13
OPTIONAL ACCESSORIES	13

INTRODUCTION

This manual offers a detailed explanation of the operation of the ROSCO ALPHA 900 FOG MACHINE. To assure efficient and safe operation, please take the few minutes needed to read this material.

The ROSCO ALPHA 900 is a thermal aerosol generator designed for intermittent fog output. It is part of a system, the other basic component being Rosco Fog Fluid, and they should always be used together. This unique fluid formulation must be used according to instructions. It contains no petroleum distillate. The operating temperature, pump pressure and output nozzle orifice of the machine have been specifically set to maximize aerosolization of the Rosco Fog Fluid. Used properly, the system should operate for many years.

IMPORTANT SAFEGUARDS

READ AND UNDERSTAND THESE SAFETY PRECAUTIONS BEFORE OPERATING THE MACHINE. FAILURE TO PROPERLY FOLLOW THESE PRECAUTIONS MAY LEAD TO A FIRE, EXPLOSION, OR ELECTRICAL SHOCK.

HEALTH CAUTION: VAPOR FROM THIS FLUID, LIKE ANY OTHER COMMON MATERIAL IN A VAPORIZED STATE, MAY BE IRRITATING TO OR CAUSE ALLERGIC SYMPTOMS IN SOME PERSONS WITH ALLERGENIC SENSITIVITY. DO NOT EXPOSE AT CLOSE RANGE TO KNOWN ASTHMATICS.

1. This machine uses electrical power at common commercially available voltages. When directly contacted, such voltages are hazardous to human life. All precautions commonly applicable to the use of electric power generally are applicable to the use of this machine. This machine is designed to operate from three-wire power systems where one of the wires is a safety ground. **DO NOT** disconnect the safety ground or use extension cords or "cheater" plugs to connect this machine to a two-wire system. Operation without a safety ground may result in a hazardous electrical shock.

2. Check the current and voltage rating of your machine. Extension cords must be properly sized and rated for voltage, current and length. Check your local electrical code for the correct gauge extension cord. If an extension cord shows signs of wear or gets warm to the touch, discontinue its use and obtain a cord with a higher current rating. Improper extension cords are not only hazardous, but may result in poor machine performance due to excessive voltage drop.

3. Never use any machine that shows signs of improper use. Even slight damage may be an indication of a major problem. If the machine looks questionable, use it only under strict observation. If the machine shows any unusual behavior, disconnect machine immediately from power and send machine to a Service Center for repair.

4. Do not operate the machine in a tightly confined space where temperature of the ambient air might exceed 135 degrees F (57 degrees C). A continuous flow of air is required to maintain temperature within machine housing. Sensitive components deteriorate rapidly under high heat conditions. Operation of the machine in an enclosure of less than ten cubic feet (1 cubic meter) is dangerous, and automatically voids the warranty.

Enclosing any heating device so it is invisible to the operator creates a potential fire hazard, no matter what the ambient temperature of the enclosure. To do so with any high-amperage device is to assume substantial risk. Rosco recommends against it.

5. In any facility, the fog concentration should be controlled. The fog should never mask emergency exits, safety signs, staircases or other safety constructions.

6. After long use, or if the machine is not properly set, some liquid droplets or a wet area may appear in front of the fog outlet. This liquid should be wiped up to prevent a condition where someone might slip or fall.

7. Machines are designed for continuous use over an 8-hour day, but to protect components, it is wise to turn off the machine when it is not in use. In permanent installations, it is advisable to equip the circuit with a night cut-off device. Under no circumstances should the unit be left heating in an unsupervised location.

8. During the warm up phase and during operations, people should not stand within one yard (1 m) of the front of the machine. Flammable material like paper, fabric, etc., should never be placed directly on or around this, or any other electrical device with a heating element.

9. The fog should be blown into an open space and should not be directed at people or objects. Never blow fog on hot surfaces, into glowing heating elements or into open flames. The normally non-flammable and non-toxic fog could react on very hot surfaces and be burnt or decomposed.

10. Unauthorized repair or alteration, especially of the thermostat, heat regulation devices and other safety devices can lead to improper operation and accidents. Repairs should be performed only by an authorized Service Center.

WARNING: USE OF ANY FLUID OTHER THAN ROSCO FOG FLUID OR MODIFICATION OR ATTEMPTED UNAUTHORIZED REPAIR OF THE FOG MACHINE WILL IMMEDIATELY INVALIDATE THE WARRANTY.

HOW THE MACHINE PRODUCES FOG

Rosco Fog Fluid is pumped from an external reservoir into the heat exchanger where it is heated. When the heat exchanger has reached its operating temperature, the operator switches power to the siphoning pump, introducing fluid into the heat exchanger. The heated and pressurized liquid is then discharged through the nozzle into the atmosphere where it vaporizes and, upon mixing with cooler air, an aerosol is created consisting of millions of fine particles. NOTE: The term "Fog" is the one most commonly used, however, the ROSCO ALPHA 900 produces a mist or aerosol.

OPERATING INSTRUCTIONS

1. POWER HOOK-UP

Plug the power cord into a socket rated at the power voltage and amperage. The machine requires a dedicated power circuit. Turn on the main power switch located at the rear of the machine. The indicator light in the switch will light.

2. REMOTE CONTROL

Plug the remote control into the socket on the back of the machine marked "Remote Control". The ROSCO ALPHA 900 will only operate from its remote control. All indicator lights (except the power light) are located on the remote control. NOTE: The remote control for the Alpha 900 is unique to this machine and is not compatible with other Rosco fog machines. Similarly, remote controls manufactured for other Rosco fog machines are not compatible with the ROSCO ALPHA 900.

3. WARM UP

Let the machine warm up for about 5 minutes until the green "Ready" indicator light turns on. The green "Ready" indicator light will come on before the first heating cycle is over, so wait one minute longer before initial use. The machine is now ready to use, as long as the "Ready" indicator light remains on and the fluid reservoir contains fluid.

4. FLUID DELIVERY

Drop the tube with the filter into a liter bottle of Rosco Fog Fluid and screw down the cap. **NOTE:** The machine only works with uncontaminated Rosco Fog Fluid. Other fluids may cause spitting and serious clogging problems and could result in the production of an unhealthful aerosol. The use of other fluids voids the warranty of the ROSCO ALPHA 900.

5. PRODUCING FOG

To produce fog, ensure that the remote control is attached. Move the "Fog" switch on the remote control to the "Momentary" position as needed. **NOTE:** The ROSCO ALPHA 900 is designed primarily for intermittent output. Please note that after 30 seconds of continuous output the machine will re-heat in about 60 seconds to proper operating temperature.

CAUTION: If the fluid bottle is empty, **DO NOT** run the pump. Running the machine without fog fluid can seriously damage the pump.

DO'S & DON'TS

- DO Read the entire manual before operating the machine and pay particular attention to all CAUTIONS AND WARNINGS.
- DO Use ONLY Rosco Fog Fluid
- DO Use an extension cord which is properly rated for voltage, current and length and which is free from nicks or other signs of wear.
- DO Before each operating period, check to see that the machine is clean and free of foreign objects.
- DO Test first for dry fog. Turn fog switch on. Place a piece of cardboard or paper 18" (50 cm) in front of machine. If the surface is at all wet return the machine to your dealer for servicing.
- DO Ensure that the machine is adequately ventilated.
- DO NOT Use the machine near a person who has asthma or similar inhalation disorder.
- DO NOT Use any foreign substances in the machine.
- DO NOT Use a machine that is damaged or operating improperly in any way.
- DO NOT Use a machine that leaks fluid from the housing.
- DO NOT Leave the machine switched on for prolonged periods without producing fog. This will lead to deterioration of the heating element.
- DO NOT Enclose the machine.
- DO NOT Install the machine in such a fashion that the operator cannot see the whole machine including indicator lights.
- DO NOT Touch the shielded nozzle of the machine. Allow sufficient cooling time after operation before attempting to perform maintenance.
- DO NOT Direct the fog continuously against the same spot. This may eventually cause fog fluid to recondense on walls, furniture, sets, etc.
- DO NOT Run the fog machine unless the reservoir contains fluid.

READ THE COMPLETE MANUAL TO INSURE SAFE OPERATION.

MAINTENANCE

1. The main fuse is located on the back of the machine. To remove the holder, snap it out with a screwdriver or similar object. Remove old fuse and replace.

WARNING: DISCONNECT THE ROSCO ALPHA 900 FROM POWER BEFORE OPENING THE FUSE HOLDER. FAILURE TO DO SO COULD BE HAZARDOUS AND RESULT IN AN ELECTRICAL SHOCK.

2. After every operation, the siphon hose should be removed from the reservoir. The machine should then be turned on and fog produced. When there is no more fog coming out of the machine, the machine should be immediately turned off.

3. After every operation, only after the machine has cooled, it should be wiped with a clean damp cloth or paper towel. This practice prevents the build up of dirt and dust which may enter the machine and damage sensitive internal components. Do not use solvents for cleaning. Soap and water are effective.

4. Before and after the machine is stored for an extended period, distilled water should be placed into a clean fluid container and the machine flushed clean for at least three minutes. The machine can then be used or stored.

5. During use, operation of all switches and indicator lights should be monitored. Lights that blink or flicker when they should be on or off, for example, are an indication of problems in the machine's circuitry.

FOG DISTRIBUTION

The fog distribution in an enclosed area depends on air flow and temperature. Natural air movement, air conditioning and other ventilation systems will affect movement of fog. Test under realistic conditions before using. If a space must be filled with fog very quickly, move the fog machine up and down and side to side. To conduct the fog to particular areas, use a Rosco hose adapter and ducting hose (See Optional Accessories, p.13). Make sure that there is a space between the fog outlet and hose to permit air flow. The ROSCO ALPHA 900 works properly only in a horizontal or slightly tilted position (approximately a 15 degree to 30 degree angle of inclination).

To achieve colored fog use spotlights and Rosco color filters. Do not add colorants to fluid.

For assistance in dealing with unusual fog requirements, consult a distributor or a Rosco office.

REPAIRS

If the machine fails and repairs are required, call or write the nearest Rosco office (listed below) for the name of a Rosco Repair Center near you.

Rosco Laboratories, Inc.
52 Harbor View Avenue
Stamford, CT 06902
(203) 708-8900
(800) ROSCO NY

Rosco Laboratories, Inc.
1120 N. Citrus Avenue
Hollywood, CA 90038
(213) 462-2233
(800) ROSCO LA

Rosco Service Center
3055 Del Sol Blvd.
Unit D
San Diego, CA 92154
(619) 423-1928
(800) 468-0114

Rosco Laboratories, Ltd.
1271 Denison Street #66
Markham, Ontario
Canada L3R 4B5
(905) 475-1400

Roscolab, Ltd.
Blanchard Works
Kangley Bridge Road
Sydenham, London
SE26 5AQ England
(81) 659-2300

Rosco Iberica, S.A.
C/Del oro 76A
Pol. Industrial Sur
28770 Colmenar Viejo
Madrid, Spain
(341) 846-3602

Rosco Australia Pty Ltd.
42 Sawyer Lane
Artarmon 2064
N.S.W. Australia
(02)9906-6262

Rosco do Brasil Ltda.
Rua Costa, 75
CEP 01304-010
Sao Paulo - SP, Brasil
(011) 259-2111

RETURNS

1. Call the nearest Rosco office for shipping instructions.
2. Remove all Rosco Fog Fluid from the machine.
3. Pack carefully and ship (in the U.S.) via UPS or parcel post prepaid. Insurance is suggested.
4. Attach a letter to the top of the machine explaining the problem in detail.
5. Enclose a copy of Rosco invoice or other proof of purchase.
6. If the machine is out of warranty, an estimate of repair cost will be provided on request. Otherwise, repairs will be accomplished and billed.
7. When ready, the machine will be returned (in the U.S.) via UPS.

STORAGE AND SHIPMENT

If you do not anticipate using your machine for an extended period, prepare your machine for storage as follows:

1. Perform maintenance as outlined in "Maintenance" section.
2. Fog one half pint of clean distilled (note: de-ionized) water through the machine to flush the internal passages.
3. Wipe the outside of the machine clean.
4. Store in a sealed cardboard box.
5. Whenever the unit is shipped, considerable care should be taken in packing to avoid damage in transit.
6. For touring, custom designed road cases are available from your Rosco dealer. Do not use the shipping carton for touring.

LIMITED WARRANTY

Rosco Laboratories, Inc. warrants to the original purchaser that the ROSCO ALPHA 900 FOG MACHINE will be free from original defects in workmanship and material for a period of six months from the date of purchase. During the warranty period, machines will be repaired or replaced at the option of Rosco.

If the purchaser returns a completed registration card to Rosco within 30 days of purchase, Rosco will extend the limited warranty on the pump assembly and the heat exchanger assembly to a **FULL YEAR** from the date of purchase. If the warranty card is not received by Rosco, the warranty will remain effective for six months.

The warranty does not extend to any parts of the ROSCO ALPHA 900 FOG MACHINE that have been subject to misuse or accident. Neither does the warranty cover any Rosco machine that has been opened, modified or repaired other than by Rosco or its designated repair station.

The warranty will not apply if procedures described in the Instruction Manual are not followed. It is the user's obligation to clean and maintain the ROSCO ALPHA 900 FOG MACHINE according to these instructions, and to follow acceptable practices for handling electrical devices with heating elements.

NOTE: USE OF ANY FLUID OTHER THAN ROSCO FOG FLUID WILL VOID WARRANTY.

ROSCO ALPHA 900 FOG MACHINE TECHNICAL SPECIFICATIONS

POWER REQUIREMENTS
120 volts, 50/60 Hz, 10 amps
220/240 volts, 50/60 Hz, 5 amps

PARTICLE SIZE
0.25-60 microns

WARM UP TIME
5 minutes (approx.)

DIMENSIONS
14.3" x 5.6" x 7.5"
36.4 cm x 14.4 cm x 19 cm

WEIGHT
11.4 lb., 5.2 kg

MAX. CONSUMPTION
1 liter per hour
16 ml per minute

FUSE TYPE
120 250/10A
240 volt-5A

OPTIONAL ACCESSORIES

Hose Adaptor 124054197
Connects ducting hose to machine.
Dimensions: 4" x 6.75" (10.2 cm x 17.14 cm)

Ducting Hose 124821760
Flexible, plastic hose, connects to adapter for ducting of fog.
Dimensions: 4" x 25' (10.2 cm x 7.62m)