

CIRRUS OPERATING INSTRUCTIONS

Please Read These Instructions Fully Before Operating the Fogger

IMPORTANT WARNINGS

- ❖ **READ THE LABEL OF EVERY CHEMICAL FORMULATION** that may be used in the fogger.
- ❖ **USE ONLY FORMULATIONS THAT MEET ALL REGISTRATIONS AND APPROVALS** of all applicable regulatory and government agencies.
- ❖ **USE ONLY FORMULATIONS that are EXPLICITLY DESIGNATED FOR THERMAL FOGGING** and the intended application.
- ❖ **Note all safety precautions and relevant EMERGENCY CONTACT INFORMATION.**
- ❖ **AVOID EXPOSURE TO THE FOG - If possible operate the fogger by Remote Control from outside the immediate target area; always use a respirator and wear skin protection if there is any possibility of inhalation and physical exposure to the fog.**

GENERAL INFORMATION

1. Use only CO₂ or Nitrogen as propellant gas. Do not use siphon CO₂ cylinders. **NEVER USE COMPRESSED AIR.**
2. Always keep the fogger upright. **Only operate the machine if upright and on a level surface.**
3. When fog is to be ducted, always use an appropriate CORONA Ducting Adapter.
4. Use in well ventilated areas only. If used in confined spaces consult the gas supplier.
5. Ensure that the CO₂ or Nitrogen hose is kept kink free and that the cylinder is properly restrained. Keep flames and sparks away from cylinder and hoses. **Do not smoke near the equipment.**

PREPARATION

1. Fit suitable plug to the fogger's electrical supply cable.
2. **DO NOT OVERFILL beyond the maximum level shown on the sightglass.** Replace the filler cap.
3. Check for sufficient inert gas supply: fit the regulator to the cylinder using the CO₂ or Nitrogen gas adapter if needed; set the pressure adjusting knob to zero, and open up the stop valve on the cylinder. The cylinder gas pressure will now be displayed. A minimum of 400 psi (27 bars) is recommended.
4. Connect gas line to regulator.
5. Make sure all switches are in the OFF (0) position.

DUCTING

Use a CORONA Ducting Adapter to duct fog. Do not connect a duct or hose directly to the fogger and ensure that the air holes in the spout of the fogger are not obstructed in any way. For a long or extensive duct system, the use of centrifugal blowers is

recommended. The line-up between the fan and the fogger is very important - Consult CORONA. For fan operation, a fused IEC type output is fitted to the front of the fogger.

OPERATION

1. Connect the fogger to a suitable power supply. Put the RED power to ON (1). The red indicator in the switch and the Digital Display will light up, indicating that the fogger is powering up.
2. After 3-4 minutes the Ready Indicator will light up. For best results wait a further 10 minutes.
3. Connect the gas line to the fogger, setting the output pressure on the regulator to 60 psi (4 bars).
4. To produce fog, push the BLACK fog switch to ON (1). Alternatively if the Remote is used, leave the fog switch OFF, connect the plug on the remote control lead to the socket on the back panel and activate the toggle switch at the end of the remote line.
5. Fog volume can be varied by adjusting the gas pressure using the regulator valve. **Do not exceed the Maximum Working Pressure as noted for the specific unit under General Specification above.**
6. When fog is no longer required, put the fog switch (or remote toggle) to OFF (0). The gas in the reservoir tank will now be exhausted through the heat exchanger, clearing it of fluid deposit. Fog production ceases within a few seconds.
7. **SHUT DOWN:** When the fogger is no longer required, unscrew the regulator pressure adjusting screw to zero and close the cylinder stop valve. Turn the POWER switch to OFF (0).

THERMAL CUT OUT

All CORONA Foggers are fitted with a Thermal Cut Out. If the fogger overheats for any reason the Thermal Cut Out will trip, cutting off all power to the heater and the DIGITAL MODULE.

ROUTINE MAINTENANCE

1. The Cirrus incorporates a purging function when the fluid tank is de-pressurized minimizing the build-up of carbon in the heat exchanger.
2. It is recommended that the nozzle of the heat exchanger be cleaned regularly, using the 0.08" (2mm) hand held twist drill to a depth of 1" (25mm). Under heavy use this should be done on a weekly basis. This process should only be carried out when the fogger is cold.
3. Every 6 months, remove the side panels from the fogger, check all compression joints for tightness, and wipe away any excess fluid.
4. Every 12 months the fluid reservoir should be drained, using the plug on the unit's under side.

INSTALLATION

Consult CORONA before configuring the fogger to interface with PLC's or Remote Consoles.

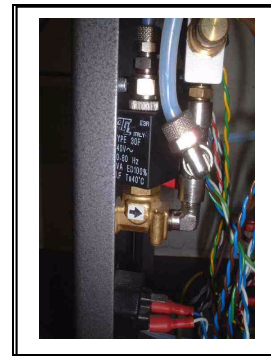
WARNING

CORONA does not accept responsibility for any damage or malfunction to or by CORONA Fog Machines, or for any consequential damage where these instructions are not observed, inappropriate fluids are used or ducting of fog or electrical switching is carried out other than upon explicitly documented acknowledgement of CORONA INTEGRATED TECHNOLOGIES INC.

TROUBLE SHOOTING

Apply solutions in sequence and only proceed with the next step if necessary

Problem	Solution
Fog volume poor	a. Check CO2 or Nitrogen pressure / supply and adjust to maximum b. Check fluid level and top up as necessary c. Clean nozzle of heat exchanger d. Remove cover; remove transfer tube, clean with wire, and replace
Fog thin and blue	a. Check fluid level and top up as necessary b. Clean nozzle of heat exchanger c. Turn metering valve screw* clockwise
Fog dense but wet	a. Fogger overfilled. Drain away excess fluid and re-test b. Turn metering valve screw* anticlockwise
No power at fogger	a. Disconnect from power. Remove the right hand side panel. Press Thermal Cut Out - the red rubber button on top of heat exchanger. Reconnect power. Monitor fogger temperature. If temperature stabilizes below 421°C on warm up, continue operation. If Thermal Cut Out is tripped again, contact CORONA. b. Check fuse and replace if necessary. If fuse blows again, consult CORONA.



- * The metering valve screw is the brass-colored screw shown in the top right-hand corner of the picture (above). This screw is accessible by removing the right side panel (as viewed from the rear). Always tighten the locknut after adjustments have been made. DO NOT FULLY CLOSE THE VALVE.

Please contact Corona (1-888-878-9433 or admin@smokemachines.com) prior to shipping any equipment for servicing or repair



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