

COLT BASIC & REMOTE OPERATING INSTRUCTIONS

Please Read These Instructions Fully Before Operating Your Smoke Machine

GENERAL INFORMATION

1. The Colt Series Smoke Generators are designed for use only with the appropriate CORONA Smoke aerosols. **DAMAGE MAY OCCUR IF ANY OTHER AEROSOL IS USED. All warranties will be void if other aerosols are used.**
2. Be certain to adhere strictly to the instructions on the canister label. Use only clean air or an inert gas to pressurize the canister. Avoid the transport and storage of pressurized canisters. Remove the aerosol from the Generator when not in use.
3. Use the Smoke Generator only in well ventilated areas. **DO NOT COVER OR OBSTRUCT THE LOUVRES IN ANY WAY.**
4. To duct smoke, attach a CORONA Ducting Adapter to fit over the smoke opening of the machine. The Adapter serves to provide a 3" (75mm) or 2" (52mm) bore connection with any ducting system, directly or via a flexible hose and serves to collect any incidental smoke fluid droplets. At regular intervals the Ducting Adapter must be cleaned. Certain principles have to be observed to ensure the most satisfactory use of smoke in a ducted system. Please contact CORONA as required.

OPERATION

1. Before using the machine the round aerosol receptacle pit in the top of the generator should be checked and cleared of any foreign material. Also check that the 'O' Ring Seal at the bottom of the pit is in position and in good condition.
2. Clean the top of the aerosol canister if necessary. Carefully follow the instructions to fill and pressurize the aerosol canister. Lower the aerosol into the pit and align the thread on the canister to match its counterpart at the bottom of the insert. With the tips of the fingers, screw in the aerosol canister clockwise until it is finger tight, then another third of a turn. **Do not over tighten.**
3. Check that the power switch on the Generator is in the OFF (0) position. Connect the cable lead to the generator.
4. Connect to an approved electrical supply outlet:
 - Colt basic 110v unit - 110v 15 amp
 - Colt turbo 110v unit - 110v 20 amp
 - Colt basic 220v unit - 220v 5 amp
 - Colt turbo 220v unit - 220v 10 amp
5. Move power switch to ON (1) position. The 'Red Indicator Light' will illuminate immediately. After approximately 5 to 10 minutes the 'Green Temperature Light' will illuminate, indicating that the correct working temperature has been reached. **For optimum performance it is recommended that the machine be allowed to warm up for an additional 10 minutes before smoke is produced.**

6. To generate smoke:

Colt Basic: Press 'Smoke Button' on machine. Smoke output is adjustable by the brass 'Output Rate Control'. Colt Remote: Set 'Smoke Button' on machine to the ON position. Alternately leave the 'Smoke Button' in the OFF position and connect the 'Remote Switch' to the machine. Smoke output is adjustable by the brass 'Output Rate Control'.

7. To stop the smoke:

Release the 'Smoke Button' (Basic), or put the 'Smoke Switch' to the OFF (0) position (Remote).

8. When the machine is no longer required, unscrew and remove the aerosol canister. Turn 'Power Switch' on machine to the OFF (0) position and disconnect the plug from the electrical supply. Allow machine to cool before storage in a warm and dry location.

SMOKE PRODUCTION MODES

CONTINUOUS OPERATION

Continuous smoke may be produced when the machine is left unattended, by placing a coin in the 'Smoke Button' recess, depressing the coin (and hence the button) and then sliding the coin forward. This has the effect of holding the 'Smoke Button' down, and enables the generator to produce smoke continuously. Depressing the coin, sliding it back and releasing pressure will stop the production of smoke.

OFF POWER OPERATION

Once the CORONA Smoke Generator has reached operating temperature for the first time (i.e. the 'Green Temperature Light' has come on), the Generator can be disconnected from the power supply and used to produce smoke while being carried around.

When disconnected from the power supply ('Off Power') the CORONA Remote Generator will not respond to the remote smoke switch - only to the 'Smoke Button'.

NOTE: The instant that the smoke starts to thin and becomes slightly blue in colour, the Smoke Generator should be reconnected to the mains power to avoid that the smoke becomes wet and the machine incurs damage. Once the 'Green Temperature Light' signals that the Generator has regained operating temperature it is ready to be used in the Off Power mode again.

HEALTH AND SAFETY

The smoke produced by all CORONA Smoke Generators has been rigorously tested to ensure that it is non-toxic under normal circumstances. However, it is recommended that persons who are asthmatic or suffering from a respiratory complaint should not be subjected to dense smoke concentrations.

ROUTINE MAINTENANCE

CORONA Smoke Generators require only minimal regular maintenance:

1. After each use follow instructions as per step 8 under OPERATION.
2. After approximately 2 hours of smoke generation, carefully insert the supplied drill into the nozzle of the heat exchanger to a maximum depth of 1 inch (25mm) and gently ream out by hand any deposit.
3. If leakage is apparent - check 'O' Ring in aerosol port and replace if any sign of damage is present.
4. Periodically remove the side panels of the machine and wipe away any excess Smoke Fluid.
5. Should the machine overheat the built-in 'Thermal Cut Out' trips to avoid any damage. The 'Green Temperature Light' and 'Red Power Light' will go out. To check whether the 'Cut Out' has operated remove the left-hand panel of the unit. Connect the power supply and press the 'Power Switch' in the ON (1) position. Now press the red 'Cut Out' button on the side of the heat exchanger. If it clicks and the lights come ON, the 'Cut Out' has operated. If the 'Cut Out' has not operated check that the power supply is live. If problems persist consult CORONA.
6. When a 'Ducting Adapter' is used in conjunction with flexible tubing, it should be periodically drained. For permanent installations, the 'Adapter' may be fitted with a drain tap. Where possible, duct runs should have a slight fall back to the 'Adapter' to allow any fluid to collect in the 'Adapter'.
7. After every 1000 - 1500 hours of operation the Heater Block should be stripped and cleaned as per instructions 'Heater, Thermocouple & Hex servicing' (form 036 - obtainable from CORONA). Remember to use a new 'stainless steel washer O-ring' when reinserting the heater core into the heater block.

NB: Remove plug from power supply before undertaking any service or maintenance operations.

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WARNING

CORONA does not accept responsibility for any damage or malfunction to or by CORONA Smoke Machines, or for any consequential damage where these instructions are not observed, inappropriate fluids are used or ducting of

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

smoke or electrical switching is carried out other than upon explicitly documented acknowledgement of CORONA INTEGRATED TECHNOLOGIES INC.

TROUBLESHOOTING

If smoke is poor, or is not produced at all:

- a) Confirm that the aerosol is properly filled and pressurized.
- b) Check that the 'Output Rate Control Regulator' is not fully closed.
- c) Check that the power supply is live. If power is live but the machine lights fail, check that all wiring is intact.
- d) Check aerosol pressure by removing canister from machine. Check that the aerosol port is clear of any contamination and that the pin and 'O' Ring are in position and undamaged. Insert the aerosol canister and repeat OPERATION procedure.
- e) If no smoke is produced, check that the heat exchanger nozzle is clear of contamination by carefully drilling to a depth of 1 inch (25mm.) with drill provided.
- f) If smoke is still not produced, remove right hand side panel. Disconnect 'Transfer Tube' from 'Heat Exchanger Block' and leave open end pointing into a container. Fit aerosol canister to machine and press 'Smoke Button' (Basic) or 'Smoke Switch' (Remote - note: The Colt Remote must be connected to the electrical power supply and must have reached operating temperature). If there is a flow of fluid from the 'Transfer Tube' this indicates a blockage in the 'Heat Exchanger Block' - refer to instructions on 'Heater, Thermocouple & Hex servicing' (form 036 - obtainable from CORONA).
- g) If there is no flow from the 'Transfer Tube', remove 'Heat Exchanger Complete'. Remove 'Smoke Button Valve' and disconnect 'Transfer Tube' from valve. Blow through both ways with air or CO₂ to remove any contamination (or use piano wire). Remove 'Output Rate Control Valve' and blow through with air or CO₂. Refit valve and 'Transfer Tube' leaving 'Heat Exchanger' end disconnected. Screw in aerosol canister and press 'Smoke Button'. Check for flow of fluid from open end of 'Transfer Tube' and reconnect to 'Heat Exchanger' if satisfactory.
- h) If flow is still not produced consult CORONA.



www.smokemachines.com

6215 Overstone Drive, West Vancouver, BC, Canada V7W 1X7
Tel: 604-878-9433 Fax: 818-942-6036 admin@smokemachines.com

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