



An ITW Company

Extended Coverage Ionizing Blower

Aerostat® XC2

INSTALLATION AND OPERATING INSTRUCTIONS

TABLE OF CONTENTS

1. SAFETY WARNINGS.....	1
2. DESCRIPTION.....	2
Performance.....	4
Power Requirements.....	4
3. SPECIFICATIONS.....	6
4. INSTALLATION.....	7
Product Safety Information.....	7
Mounting and Placement.....	7
Power Connections.....	8
5. OPERATION.....	9
Operating Environment.....	9
Controls and LED Indicators.....	9
Balance.....	10
Alarms.....	11
FMS Relay Contact.....	12
Optional Air Filter.....	12
6. MAINTENANCE.....	13
Maintenance Scheduling.....	13
Emitter Cartridge Inspection and Cleaning.....	13
Chassis Cleaning.....	15
7. TROUBLESHOOTING.....	16
8. PARTS AND ACCESSORIES.....	17
9. WARRANTY.....	18


1. SAFETY WARNINGS


Carefully read the following safety information before installing or operating the equipment.


Failure to follow these safety warnings could result in damage to your ionization system and/or voiding the product warranty.

This instruction manual uses symbols to identify dangerous situations as follows:


GENERAL SAFETY


 **NOTE** – Statements identified with **NOTE** indicate precautions necessary to avoid potential equipment failure.


 **CAUTION** – Statements identified with **CAUTION** indicate potential safety hazards.

 **WARNING** – Statements identified with **WARNING** indicate potential serious injury hazards.


PRODUCT SAFETY


 **NOTE** – Do not attempt to operate at voltages other than those specified.

 **NOTE** – Do not allow dust, dirt or debris to block or obstruct air flow inlets or outlets.

 **NOTE** – This equipment must be correctly installed and properly maintained. Adhere to the following notes for safe installation and operation:

1. Read instruction manual before installing or operating equipment.
2. Only qualified service personnel are to perform installation and repairs.
3. All equipment must be properly grounded, including the machine frame to which the equipment is mounted.
4. Turn off input power to unit before connecting or disconnecting other equipment.
5. Do not operate the system in close proximity to fumes and flammable liquids.

 **WARNING – Electric Shock Hazard**
Electrical installation and repairs must be performed by a skilled electrical engineer according to the applicable national and local regulations. The equipment must be properly grounded. Grounding is required to ensure safe and proper operation and to prevent electrical shocks upon contact.

 **WARNING – Fire Hazard**
Keep the unit dry. Do not operate the unit in flammable or explosive environments.

2. DESCRIPTION

The Aerostat XC2 Extended Coverage Ionizing Blower is designed to meet various applications where a wide static discharge coverage area is desired. Specific applications where the Aerostat XC2 performs well includes injection molding, device manufacturing, and packaging.

The Aerostat XC2 uses the Simco-Ion patented "Micropulse" Technology to meet the performance, particle cleanliness and low maintenance requirements necessary to maximize production yield in many applications.

The Aerostat XC2 is available with an optional heater to reduce the effects of wind-chill.

This manual covers the installation, operation, and maintenance of the Aerostat XC2 Ionizing Blower.



Figure 1. Extended Coverage Ionizing Blower Model Aerostat XC2

The Aerostat XC2 has the following unique features and benefits:

- Large area ionization footprint for complete discharge coverage across an extended work surface
- Patented "Micropulse" Technology with high-efficiency output that provides for long periods between maintenance cycles
- Maintains a balance around zero of +/-10V or better
- LED alarms for both ionization balance fault and fan status
- Facility Monitoring System (FMS) relay contact for remote status monitoring
- Employs a high-efficiency, multi-speed fan to produce a strong ionized airflow

- Push-button cleaner for easy, periodic cleaning of emitters
- Universal AC input accepts all IEC power cords
- An audible alarm sounds for all alarm conditions (an optional feature ordered separately at the time of XC2 purchase) available on the XC2-05A models
- An optional heater for reducing the effects of wind-chill (an optional feature ordered separately at the time of XC2 purchase)

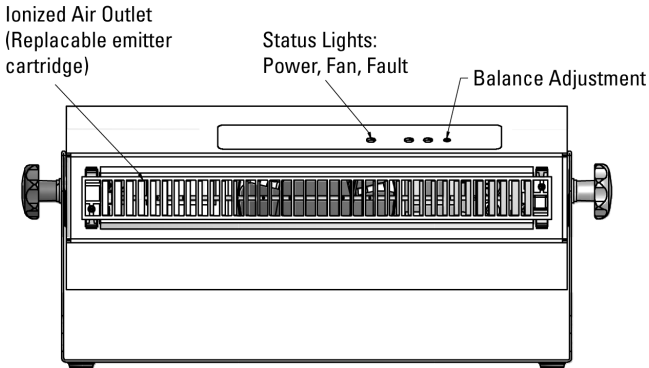


Figure 2. Aerostat XC2 Front-panel

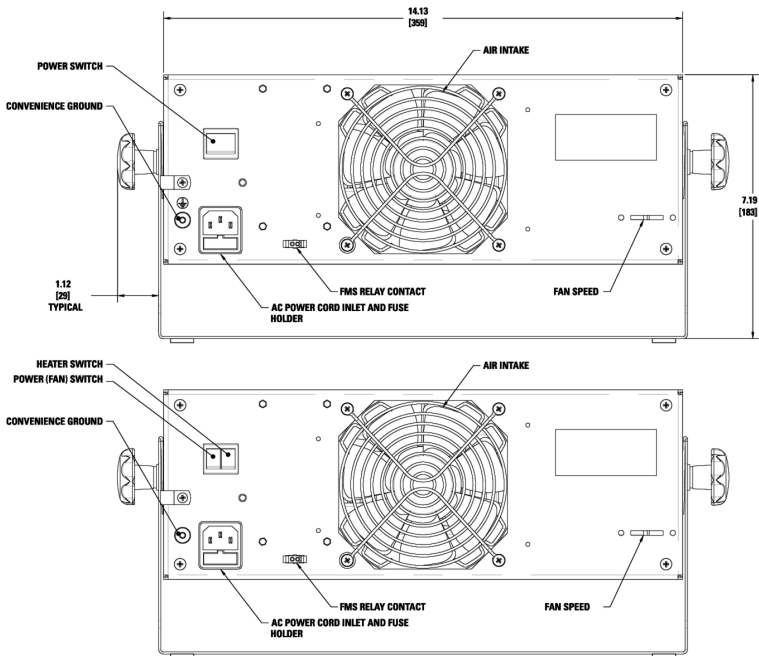


Figure 3. Aerostat XC2 Rear Panel (with heater and without heater)

Performance

The Model Aerostat XC2 is factory adjusted to meet the specifications in the centerline static discharge times below:

- 1.0 seconds or less @ 1' (30 cm)
- 2.0 seconds or less @ 2' (60 cm)
- 3.5 seconds or less @ 3' (90 cm)
- 5 seconds or less at @ 4' (122 cm)

These decay times are directly in-line with the center of the fan, $\pm 1000V$ to $100V$. Measurements were taken at the stated distance at high fan speed using a charged plate monitor in accordance with ESD Association Ionization Standard ANSI/ESD STM3.1-2015. Discharge times may be improved when tested within your operating environment.

In a humidity-controlled environment, the XC2 will maintain a balance around zero of $\pm 10V$ or less. Performance in extreme environments may vary. When using the optional fan filter, the unit's performance will be reduced between 10-40% depending upon the blower's speed and the distance to the target.

Coverage Area Discharge Time

Discharge times are tested in accordance with ANSI/ESD STM3.1- 2015. Each point identifies the $1000V$ to $100V$ discharge times (in seconds) with high-fan/low-fan speed across the target area. Times are slightly higher with the $230V/50$ Hz unit.

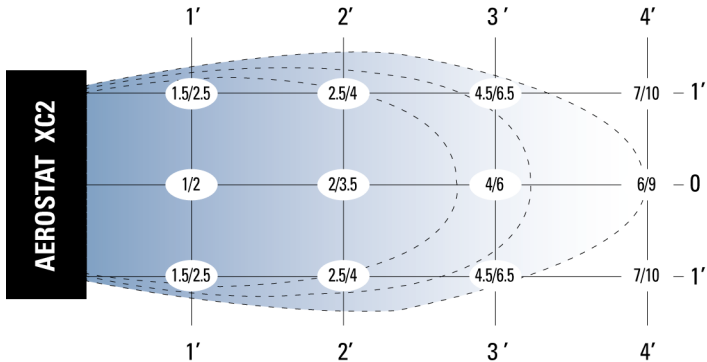


Figure 4. Aerostat XC2 Discharge Times

Power Requirements

The Aerostat XC2 is powered by an internal universal AC input power supply with an input line voltage range of 100 to 240 VAC, 50/60 Hz single phase.

Typical maximum current draw for the Aerostat XC2 at high fan speed:

- 100-240 VAC, 50/60 Hz, 0.5A, 55W max (no heater)
- 100-120 VAC, 50/60 Hz, 3.5A, 420W max (with heater)
- 220-240 VAC, 50 Hz, 1.9A, 460W max (with heater)



CAUTION – The use of improper input voltage may result in poor performance or damage to the unit. Damage caused to the power supply from operation at levels outside of the specified limits will void the warranty.

3. SPECIFICATIONS

Input Voltage	100-240 VAC, 50/60 Hz
Input Current	0.5A, 55W max (no heater); 3.5A, 420W (with 100-120 VAC heater); 1.9A, 460W (with 220-240 VAC heater)
Discharge¹	1.0 sec @ 1' (30 cm) (1000-100V high fan speed)
Balance	0 ±10V
Coverage Area	3'W x 6'L (91 x 183 cm) (effective coverage area is up to 6' from the blower face)
Ion Emission	Micropulse AC Ionization
Emitters	Stainless Steel emitter points
Controls	Power on/off, fan speed control low/medium/high, emitter point cleaner push button, balance adjust, heater on/off (optional)
Indicators	Green POWER on, red FAULT alarm, red FAN STALL alarm
Connectors	IEC AC Power Cord outlet, FMS fault alarm output connector
Air Volume	95 cfm (low), 150 cfm (high fan speed)
Air Velocity²	620 fpm @ 12", 435 fpm @ 24", 325 fpm @ 36", 265 fpm @ 48" (high fan)
Heated Air Temp	4-5°F (2-3°C) above ambient, measured at 12" (30 cm) in front of blower (optional)
Audible Noise	58 dB (low fan speed), 70 dB (high fan speed) measured at 2' in front of blower
Cleanroom Class	Meets ISO 14644 Class 6 (Fed Std. 209E Class 1000)
Ozone	<0.05 ppm measured at 1' (30 cm) in front of the blower
Operating Env³	Temperature 50-95°F (10-35°C), humidity 30-60% RH, non-condensing
Audible Alarm	Fault and fan stall (optional)
Mounting	Powder-coated steel stand with skid resistant rubber feet
Enclosure	Powder-coated aluminum chassis
Dimensions	14.13"W x 7.2"H x 6.55"D (35.9 x 18.3 x 16.6 cm) with stand
Weight	7 lbs (3.2 kg) with stand
Warranty	2 year limited warranty

Certifications



1. Tested in accordance with ANSI/ESD STM3.1-2015.
2. Velocity in fpm measured at center line of air stream; all values ±10%.
3. Will provide specified (to specification) performance when operated in an environment meeting the cleanliness requirements for ISO Class 6.

4. INSTALLATION


Product Safety Information

Carefully read the following safety information before installing or operating the equipment. Failure to follow these safety warnings could result in damage to your ionization system and/or voiding the product warranty.

- The use of improper input voltage may result in poor performance or damage to the ionizer. This will also void the warranty.
- This product is supplied with a 3-prong grounding plug, which must be inserted in an appropriate, properly wired and grounded receptacle. Do not defeat the electrical ground. For safety, the use of extension cords is not recommended.
- Do not use this blower in an explosive environment. Poorly maintained Ionizers could produce miniscule electric arcs along the emitter. This may cause detonation in an explosive environment. Read Section 4 Power Connections and Section 5 Operating Environment before applying power to the unit.
- To avoid personal injury or damage to the equipment, do not perform any maintenance other than that contained in these instructions. Do not insert anything within the intake or outlet grills.
- There are no user-replaceable parts inside this blower other than the emitter cartridge and the power fuse. Any unauthorized service will void the warranty and may result in additional repair charges. Contact your local Simco-Ion representative if the blower requires service or repair.
- For indoor use only in a non-condensing environment.
- This product is not intended for use in tropical climate regions or for use at altitudes above 2000m.
- Before performing any recommended maintenance, be sure the unit is powered off and unplugged.

Mounting and Placement

Initial Operation

 **NOTE** – Operate the Aerostat XC2 ionizer for an initial 24 hours in the application area before conducting any performance measurements.

Place the Aerostat XC2 approximately 1 to 4 feet (0.3 to 1.3m) from objects to be neutralized or from the critical work area. Discharge times are longer, the further away the XC2 is placed from the target area. Tests show that the XC2 will ionize the target area further than 4 feet.

The XC2 should be positioned to cover as much of the area as possible with the ionized air stream. To allow adequate air intake, keep at least a 6-inch clearance between walls or any objects and the rear of the XC2.

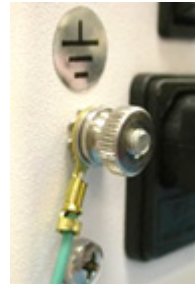
Mounting

The Aerostat XC2 comes with a mounting stand preassembled to the blower. The mounting stand is designed for a free or fixed position on a tabletop or workbench and mounting to a fixed surface. Self-adhesive skid-resistant rubber feet are supplied with the blower and installed on the bottom of the stand by the end-user. Holes in the base of the stand are provided for securing the XC2 to a fixed location using 5/16" (8 mm) diameter screw hardware (not provided).

Once the Aerostat XC2 is secured to a surface, the mounting stand can be adjusted and locked to the desired position. Loosen, but do not completely remove, the knobs on each side of the blower. Tilt the XC2 to the desired position, so the XC2 ionized airstream is aimed directly at the target with no intervening grounded objects. Re-tighten the knobs to lock the XC2 into place.

Power Connections

The XC2 accepts universal AC input (100-230 VAC 50/60 Hz single-phase). The XC2 must be grounded for safe and proper operation. The XC2 is available with different line cords to meet the main power connection plug requirements in many areas. Connect the supplied power cord to an appropriate 3-terminal grounded AC power receptacle.



CAUTION – Using a non-grounded power cord, if used improperly, can cause unpredictable XC2 behavior, such-as intermittent activation of the XC2's alarm. Care must be taken to ensure the XC2's "LINE" and "NEUTRAL" AC input is properly connected to the "LINE" and "NEUTRAL" of the utility power.

Figure 5. Ground Terminal

If installing the XC2 Blower in an electrically noisy environment, an additional ground connection can be made to the blower using the convenience ground terminal located on the blower's rear panel.

A cord clamp is supplied with the blower. Use this cord clamp to prevent unwanted disconnection of the power cord or protect against the power cord's accidental loosening due to vibration.



Figure 6. Power Cord Clamp

After connecting the power cord to the power inlet connector, fit the power cord through the cord clamp and secure the clamp to the rear chassis panel with the supplied #6 sheet metal screw.

WARNING – Electric Shock Hazard

Do not insert anything within the intake or outlet grills. Electric shock may result.

5. OPERATION

Operating Environment

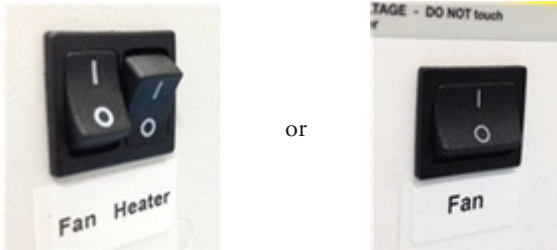
Operate the Model Aerostat XC2 in an environment where the relative humidity is 30-60% (non-condensing). The operating temperature range for the blower is 50-95°F (10-35°C).

The Model Aerostat XC2 will conform to stated performance specifications when used in an environment that meets the cleanliness limits defined by ISO 14644-1 Class 6 (Fed Std. 209E Class 1000) and serviced according to an appropriate maintenance schedule.

Controls and LED Indicators

Fan Power

Power ON the XC2 by setting the FAN power switch on the rear panel to the ON position ("I"). The green LED POWER indicator light on the front panel will light, and the fan will startup.



Fan Speed Adjustment

The airflow (fan speed) may be adjusted using the Fan Speed slide switch on the back of the Aerostat XC2. The XC2 Fan can be set to Low, Medium or High.

Alarm

There are two red LED alarm indicators located on the front panel. FAN will indicate a stalled fan. FAULT will indicate a loss of high voltage at the emitters, when the emitter cartridge is removed from the blower, or when ionization is out of balance.

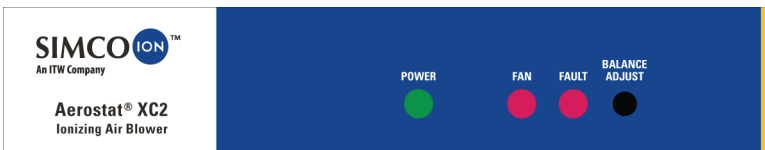


Figure 7. LED Indicator Lights

Heater ("H" Model Only)

Turn on the heater by setting the "HEATER" rocker switch to the on ("I") position. NOTE: The heater will only operate when the fan is on.

The heater provides about a 2-3°C (35.6-37.4°F) rise in the ionized air temperature at the blower's face, which is just enough to counter wind chill effects. The XC2 heater is not meant to act as a space heater.



If the HEATER switch is turned ON and the FAN switch is OFF, the heater automatically stops. The XC2 heater is protected with thermal cutout devices that will deactivate the heater in the case of overheating, such as inadequate airflow due to a failed fan.

Balance

The Aerostat XC2 has a balance adjust control for setting the initial balance of the blower. The internal feedback control system will then maintain the balance of the XC2 to +/-10V around the initial balance set point.

The Aerostat XC2 leaves the factory with the balance adjust control set to meet performance specifications during the final factory test. For optimal performance, it is recommended that the XC2 balance setting be checked and adjusted (if required) by the end-user before using the blower. A Charged Plate Monitor (CPM) with a standard 6"x6" plate, such as the Simco-Ion Model 280A, is required to monitor the ionizer's balance during the balance adjustment procedure.

Before conducting any performance measurements, it is recommended the XC2 run for an initial 24 hours and acclimatize in an environment comparable to the area of application.

1. Set the XC2 Fan to the desired speed.
2. Place a Charged Plate Monitor at a distance of about 12" (300 mm) directly in front of the blower with the CPM plate positioned in the ionized air stream. Turn ON the CPM and set it for balance monitoring. Observe the balance reading displayed by the CPM.
3. Use a trimpot tool or small flat blade screwdriver to adjust the "Balance" control on the front panel of the XC2. Turning the balance adjust control clockwise will make the balance voltage more positive. Turning the control counterclockwise will make the balance more negative.

The XC2 should be adjusted so that the CPM displays a balance of approximately 0V +/-5V.

! **NOTE** – Simco-Ion recommends using the push-button emitter point cleaner daily to ensure the Aerostat XC2 is fully emitting the maximum volume of ions onto your target area for optimum balance performance.

The Aerostat XC2 blower should be OFF when using the push-button emitter point cleaner. Do not clean the emitter points while the blower is operating.


Alarms

There are two red LED indicators located on the front panel:

1. **FAN:** When constantly lit, the fan is not rotating properly (stalled fan). This alarm will clear itself if the fan can resume normal operation.
2. **FAULT:**
 - **Constantly lit:** No high voltage on the emitters or the emitter assembly is removed from the blower. To clear a constant FAULT indicator, correcting the fault condition and cycling the power to the blower OFF and ON again.
 - **Blinking:** High voltage is ON, but \pm ionization is not balanced. A blinking FAULT indicator will clear itself if the ionization balance condition is corrected (suggestion: clean the emitter points by pressing the emitter point cleaner button).

Condition	POWER (Green)	FAN (Red)	FAULT (Red)	FMS Relay Output	Ionization Voltage State
Power OFF	OFF	OFF	OFF	Open	OFF
Power ON All Ok	ON	OFF	OFF	Closed	ON
Grill Removed	ON	OFF	ON	Open	OFF
HV Fault	ON	OFF	ON	Open	OFF
FAN Fault	ON	ON	OFF	Open	OFF
Out of Balance	ON	OFF	Blinking	Open	ON

Table 1. Alarms and LED Status Indicators

 **NOTE** – The alarm of the Aerostat XC2 is not designed or calibrated to function as a maintenance alarm. If the emitter points are allowed to become extremely dirty, there is the possibility that the Ionization fault alarm will start to turn ON intermittently. If this happens, clean the emitter points following the procedures described in Section 6 Emitter Cleaning.

The optional audible alarm will sound upon any alarm condition. Any of the following may cause an alarm condition:

- Failed high voltage power supply
- Dirty Emitter points
- No power to the Fan Unit
- Fan in locked-rotor condition or fan failed
- Emitter cartridge not installed or not seated correctly

In the event an alarm condition occurs, the FMS output relay will open. For information on troubleshooting alarms, see Section 7 Troubleshooting.

FMS Relay Contact

The Aerostat XC2 provides an opto-isolated relay contact for indicating alarm status to your process equipment or facility monitoring system (FMS).

- Relay Open – Blower is in alarm or Power is Off
- Relay Closed – Normal Blower operation

The "FMS Relay Contact" connector on the blower's rear panel provides access to the relay contacts. The relay contacts are rated for a maximum of 60 VDC, 0.20A. A mating plug and two crimp-on male pins are provided with the blower so the end-user can construct an appropriate connecting cable.

- Mating plug: Molex #3062023
- Crimp-on Pins: Molex #02-06-2101
- Crimp tool: Molex #63811-1000 or #63819-1300

Pin	Function
1	Relay Contact 1
2	Relay Contact 2 Table 2. FMS Pinout Designations



Figure 8. FMS Relay Contact Connector on Rear Panel

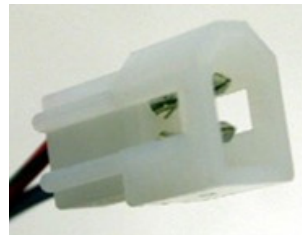


Figure 9. Mating Plug to FMS Connector

Optional Air Filter

For extremely dirty or dusty environments, an optional air filter kit is available. The air filter kit includes a 30 ppi polyurethane open-cell foam air filter that mounts over the rear fan guard using a stamped metal frame and a separate set of sheet metal screws. No disassembly of the original rear fan guard is required. The foam air filter can be cleaned and reused. Simco-Ion also offers a replacement filter pack (see Section 8 Parts and Accessories).

When using the optional fan filter, the unit's performance will be reduced between 10-40% depending upon the blower's speed and the distance to the target.

6. MAINTENANCE

Maintenance Scheduling

The balance of the Model Aerostat XC2 is designed to be maintained by internal circuitry and, after initial set-up, should not need further adjustment by the end-user.

The XC2 requires little or no user maintenance other than periodic cleaning of the emitter points with the push button cleaner or more extensive cleaning of the emitter cartridge, case, and fan.

Simco-Ion recommends using the push-button emitter point cleaner daily. This will ensure the Aerostat XC2 is fully emitting the maximum volume of ions onto your target area.

Maintenance schedules will vary depending on environmental conditions. Therefore, determine a schedule that meets the requirements of your application and environment.

⚠ CAUTION – Before performing any of the following cleanings, be sure the Aerostat XC2 is powered off and unplugged.

Avoid personal injury or damage to the equipment, do not perform any maintenance other than those in these instructions.

There are no user-serviceable parts inside this blower other than the input power fuse and the replaceable emitter cartridge. Any unauthorized service will void the warranty and may result in additional repair charges.

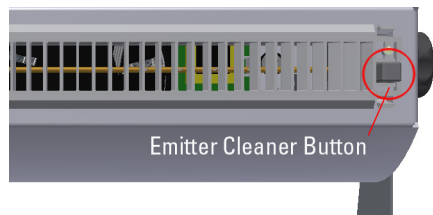
Emitter Cartridge Inspection and Cleaning

Recommended cleaning materials:

- Lint-free cleaning cloths
- Lint-free cloth swabs (polyester cloth is recommended)
- Cleaning solution of 50% IPA (electronic-grade isopropanol alcohol)/50% de-ionized water
- Clean dry air (CDA)

Emitter Cartridge Cleaning

With the XC2 turned OFF, emitter cleaning can typically be accomplished by manually depressing the emitter cleaner button on the side of the ionized air outlet at the front of the unit to sweep the internal brush over the tips of the emitter points. Depress the button several times (3 to 5 times) to clean the emitter points.



Emitter Cartridge Removal, Cleaning and Replacement

Over time, and depending on the operating environment, dirt and dust may buildup on areas of the ionizer not serviced by the emitter point cleaning brush. This contamination should be removed to ensure the optimum operation of the unit. Cleaning the ionizer may help correct minor problems with ion balance and ion output. An intermittent ionization fault light may also indicate the need for cleaning of the ionizer. If the fault light does not go out after operating the emitter point cleaner several times, perform a more thorough cleaning of the ionizer.

⚠ CAUTION – Avoid personal injury or damage to the equipment, do not perform any maintenance other than those in these instructions.

Before performing any of the following cleanings, be sure the Model Aerostat XC2 is powered off and unplugged.

DO NOT ATTEMPT TO REMOVE OR INSTALL THE EMITTER CARTRIDGE UNLESS THE BLOWER IS SWITCHED OFF AND DISCONNECTED FROM AC POWER

Disconnect the power cord from the rear of the XC2.

Use a small flat blade screwdriver to unscrew the retaining screws at each end of the emitter cartridge. Pinch the retaining tabs at each end of the ionized air outlet and withdraw the emitter cartridge from the XC2.

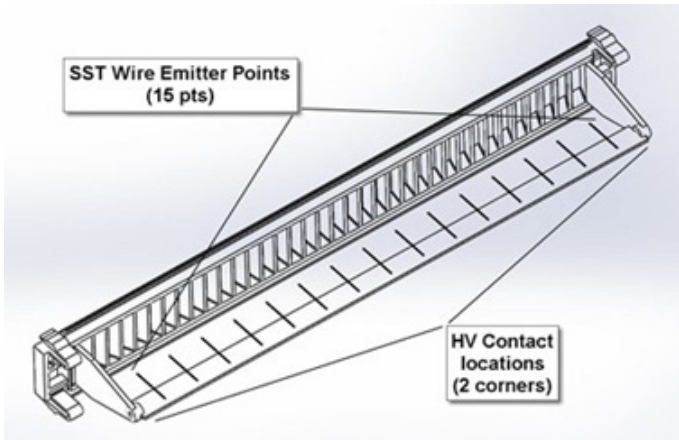


Figure 10. Emitter Cartridge Removal, Cleaning & Replacement

Using the recommended cleaning materials, gently clean the stainless steel (SST) wire emitter points in the cartridge and clean the rear contact corners on the emitter assembly plate's back edge. Do not bend the emitter wires during cleaning. Periodically inspect the emitter wires' tips in the emitter cartridge for signs of dirt buildup on the tips or other notable degradation.

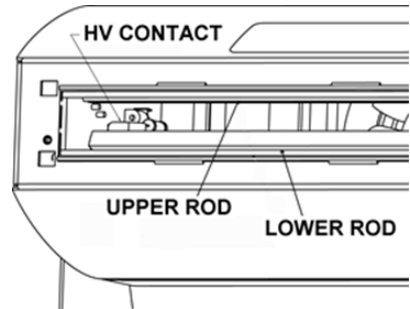
Inside the black air duct, use a swab moistened with 50% IPA to clean the two HV spray contacts mounted on the duct's side panels.

Use cleaning cloths moistened with 50% IPA solution to clean the upper and lower steel rods that lay inside the duct's outlet. Note that the lower rod also serves as the spine of the internal emitter point cleaning brush.

The air inlet fan guard on the rear of the XC2 and the louvered ionized air outlet should remain clean to prevent airflow restriction. They can be cleaned with a soft brush, a vacuum, or blown off with compressed Clean Dry Air.

Use clean, dry compressed air to clean dust or dirt from the inside of the black air duct.

Allow the cleaned components to dry before re-installing completely.



Examine the cleaned emitter cartridge. Verify that all fifteen of the wire emitter points are projecting straight out and are all on the same horizontal plane as the metal plate. Note that all of the wire points are welded to one side of the metal plate.

Install the emitter grill assembly back into the XC2 while noting the following:

1. The emitter assembly side with the emitter wire weld spots should be facing DOWN toward the cleaning brush in the chassis.
2. Insert the correctly oriented cartridge into the XC2. Verify that the emitter assembly seats and the four corner snap locks engage.
3. Press the cleaning brush button and visually verify that all of the emitter wires' tips are swept by the brush as it rotates upward.
4. Use a small flat blade screwdriver to secure the emitter cartridge to the chassis using the captive screws on the cartridge's ends.

Reconnect the line cord to the unit and turn ON the XC2. Allow the XC2 to run for at least five minutes before using it to ionize your target area.

Simco-Ion offers a replacement emitter cartridge for the XC2 if it becomes damaged. See the Parts and Accessories section at the end of this manual.

Chassis Cleaning

Moisten a lint-free cloth with the diluted IPA solution. Thoroughly wipe down the XC2 chassis to remove any accumulated dirt.


Change the cloth frequently to ensure the dirt is completely off.

7. TROUBLESHOOTING

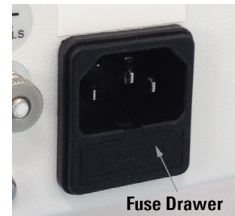
The table below provides a quick troubleshooting reference for the Aerostat XC2. If the solutions listed do not remedy the problem, contact Simco-Ion Customer Service (customerservice@simco-ion.com).

Problem	Possible Cause	Solution
Fan Unit is noisy or slow	Fan is obstructed	Check fan guards for any obstructions
Fan Unit does not operate	Poor power connection or fan is obstructed	Check power cords and connections Check fan guards for obstructions
Offset balance is >10V	Emitter points are dirty	Clean the emitter points
Decay times are too long	Emitter points are dirty	Clean the emitter points
Fault Alarm Blinks intermittently	Emitter points are dirty	Clean the emitter points
FAN Alarm is ON continuously	Fan has stopped	Check fan guards for any obstructions
Fault Alarm is ON continuously	Possible HV failure or fan has stopped	Contact Simco-Ion

The Model XC2 comes with a 250V, Time-lag, 5 x 20 mm fuse located in a fuse drawer on the power inlet module.

 **CAUTION** – Turn OFF the Model XC2 and disconnect it from power before attempting to access the fuse drawer.

Replace the fuse only with an identically rated part. If replacing the fuse does not restore the unit to operation, leave the unit turned OFF and disconnected from power. Contact Simco-Ion technical support for additional information.



- 100-230 VAC, 50/60 Hz, 0.5A, 55W max (no heater); fuse = 2.5A SLO
- 100-120 VAC, 50/60 Hz, 3.5A, 420W max (with heater); fuse = 5A SLO
- 220-230 VAC, 50 Hz, 1.9A, 460W max (with heater); fuse = 2.5A SLO

8. PARTS AND ACCESSORIES

Contact Simco-Ion Customer Service at customerservice@simco-ion.com for more information about these replacement parts and accessories

91-XC2-xx-05	Aerostat XC2 Ionizing Blower
91-XC2-xx-05A	Aerostat XC2 Ionizing Blower with Audible Alarm
91-XC2-xx-05H	Aerostat XC2 Ionizing Blower with Heater
91-XC2-xx-05HA	Aerostat XC2 Ionizing Blower with Heater and Audible Alarm
33-6002-01	Aerostat XC2 Replacement Emitter Cartridge
33-6003-01	Aerostat XC2 Air Filter Kit
33-6004-01	Aerostat XC2 Replacement Air Filters (6 pack)

Note: Part numbers above where

xx = US (120V/60 Hz with North America power cord)

xx = EU (230V/50 Hz with Continental Europe power cord)

xx = UK (230V/50 Hz with United Kingdom power cord)

xx = CN (230V/50 Hz with China power cord)

xx = JP (100V/60 Hz with Japan power cord)

9. WARRANTY

This product has been carefully tested at the factory and is warranted to be free from any defects in materials or workmanship. Simco-Ion will, under this warranty, repair or replace any equipment that proves, upon our examination, to have become defective within one year from the date of purchase.

The equipment being returned under warranty should be shipped by the purchaser to Simco-Ion, 2257 North Penn Road, Hatfield PA 19440, transportation prepaid and insured for its replacement cost. Prior to returning any goods for any reason, contact Simco-Ion Customer Service at (215) 822-6401 for a Return Authorization Number. This number must accompany all returned items.

This warranty does not apply when the equipment has been tampered with, misused, improperly installed, altered, has received damage through abuse, carelessness, accident, connected to improper line voltage, or has been serviced anyone other than an authorized factory representative.

The warranty does not apply when Simco-Ion parts and equipment have been energized by other than the appropriate Simco-Ion power supply or generator, or when a Simco-Ion power supply or generator has been used to energize other than Simco-Ion parts and equipment. Simco-Ion makes no warranty, expressed or implied, nor accepts any obligation, liabilities, or responsibility in connection with the use of this product other than the repair or replacement of parts stated herein.

Simco-Ion

2257 North Penn Road
Hatfield, PA 19440

(215) 822-6401

(800) 203-3419

www.simco-ion.com

customerservice@simco-ion.com



© 2022 Simco-Ion Printed in the U.S.A.