SUPERA

ANESTHESIA
INNOVATIONS

Active Evacuation System
(AES)

Model EVC3000

FOR VETERINARY USE ONLY

READ AND SAVE THESE INSTRUCTIONS

WARNING – TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

a) Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.

CAUTION
For General Ventilating Use Only. Do Not Use To Exhaust Hazardous Or Explosive Materials And Vapors

WARNING – TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

a) Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.

b) Ducted fans must always be vented to the outdoors.

 **THERE ARE NO USER SERVICEABLE PARTS INSIDE**

Symbol Chart

This document uses the following symbols to indicate potential hazards or alert the user to useful information about the unit.

 **Important Notice – Explanation needed: refer to this manual**

 **High Voltage: Risk of Electrical Shock**

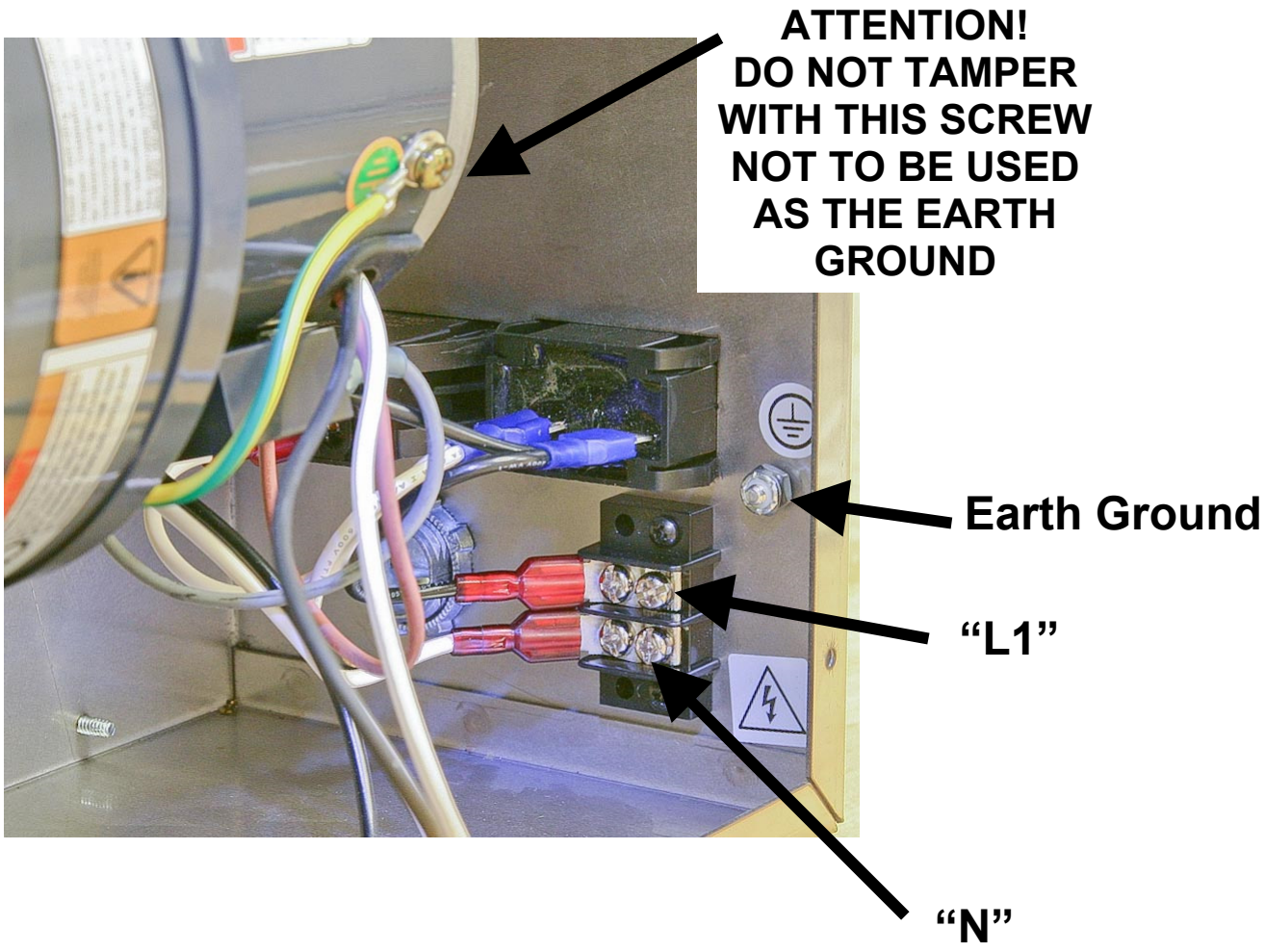
 **Protective Earth Ground**

INSTALLATION INSTRUCTIONS

1. **Remove the panel to reveal the terminal block.**

2. **Attach the ground.**

3. **Attach the “L1” and “N” wires to the terminal block.**



SUGGESTED MOUNTING INFORMATION

The area around the AES must be free of loose dirt and debris

The area should be well ventilated with a maximum temperature of 120 deg. F

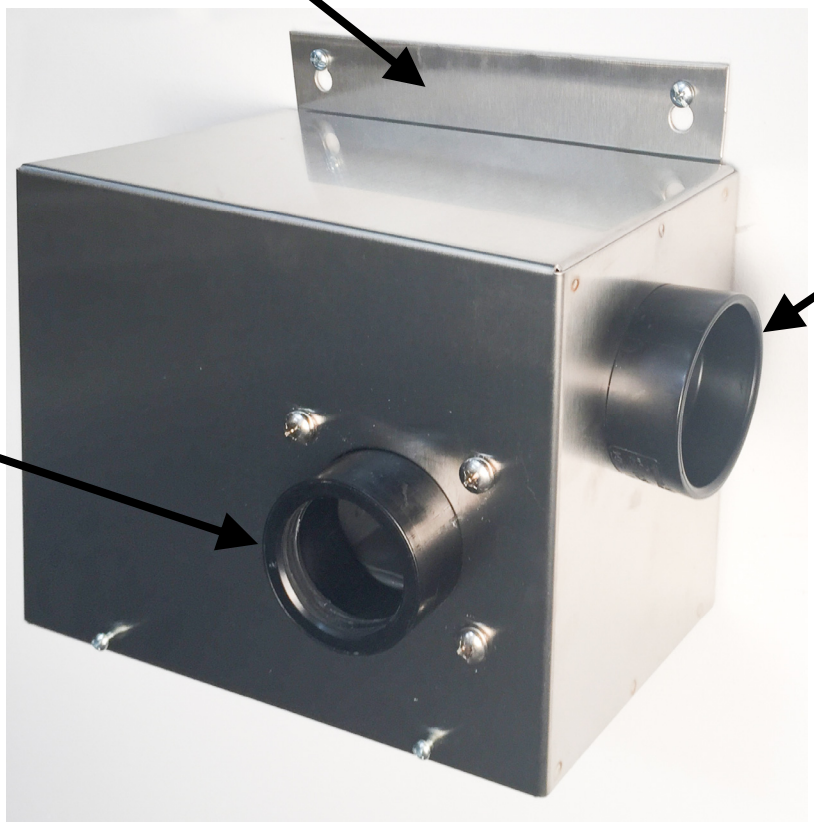
For maximum performance, the AES should be centrally located to your evacuation locations if possible

BROWARD A&C
MEDICAL GAS SPECIALISTS

954-725-1470 Ext. 403

INSTALLATION

Wall mounting bracket
Supplied, but NOT attached



INTAKE
2” female sch40
ABS or PVC

EXHAUST
2” male sch40
ABS or PVC

Shelf mounting bracket
Supplied, but NOT attached

OPERATION

Hour Meter

ON/OFF switch

The ON/OFF switch has a built in resettable circuit breaker. When activated, the switch will be in a central position. To reset, toggle the switch to the OFF position then to the ON position.

RECOMMENDED GUIDELINES

POWER SWITCH
We recommend controlling the EVC3000 through a lighted power switch to indicate the device is powered ON.

INTAKE
For the intake of the AES, we recommend installing 2” Schedule 40 PVC pipe as the main line to the general area of the evacuation outlets. Use ½” Schedule 40 PVC pipe from the main 2” pipe to the evacuation outlets in the ceiling or walls.

EXHAUST
The exhaust pipe should be 2” pipe plumbed to outside the building.

OUTLETS

We recommend using the EVC680 waste gas outlets with the AES. These have engineered flow rate compensators to balance the entire system. No ceiling or wall valves are needed to control the flow rate, however, all active (suction style) evacuation systems require waste gas interface balance valves on the anesthesia machines.

WASTE GAS INTERFACE
The EVC630 WGI is engineered for this system and requires no additional calibration or maintenance.

It is mounted on the anesthesia machine and attaches to the pop off valve or non-rebreathing system via the blue 19mm tubing.

GENERAL INFORMATION

Active Evacuation System
AES – anesthetic evacuation system utilizes a sealed evacuation unit to remove waste gas to the outside air. The AES wall or ceiling outlets are plumbed using PVC pipe, and are connected to the anesthesia machine through the waste gas interface (WGI) device to balance the negative pressure. Because of the lower volume of the AES system, no flow regulator is required at the WGI.

1-10 Anesthesia Machines

Uses EVC680 wall/ceiling outlets

Plumbed using PVC pipe, not copper

Uses waste gas interface EVC630 to balance evacuation pressure on each anesthesia machine.

MAINTENACE

This AES unit is maintenance free.

TROUBLE SHOOTING

1. The fan stops flowing air.
Check the on/off switch. If the switch is half way on/off, the circuit breaker has been triggered. Reset the switch into the “ON” position.

2. The fan is on but not flowing air at the outlets.
Check the exhaust pipe for obstructions (animals, debris, etc.)
Check the intake pipes for loose joints

SPECIFICATIONS

Tech Specs
Item: PSC Blower
RPM: 3388
Bearing Type: Ball
Type: Forward Curve, Direct Drive
CFM @ 0.000-In. SP: 53
CFM @ 0.200-In. SP: 50
CFM @ 0.400-In. SP: 41
CFM @ 0.500-In. SP: 23

Electrical
Voltage: 115
Hz: 50/60
Phase: Single
Full Load Amps: 0.30
Agency Compliance: TUV Listed for US and Canada requirements to UL507

Sound
less than 50 decibels

Construction
303 stainless steel housing
ABS fittings

Dimensions
10” X 7” X 8”

Weight:
8 lbs.

WARRANTY (PARTS ONLY)

5,000 hours or 5 years, whichever comes first.

Supera LLC warrants this product shall be free from defects in workmanship and materials, under normal use from the date of purchase. This is a parts warranty. Labor is not included.

Supera LLC warrants only that each such part and item shall be free from defects in workmanship and materials at the time of delivery. This warranty shall be void for any product that has been altered, defaced or removed from the original Supera LLC product.

Supera LLC shall not be liable for any damage, injury or loss arising out of the use of the product, whether as a result of a defect in the product or otherwise, if, prior to such damage, injury or loss, the product was (1) damaged, misused, or misapplied; (2) repaired, altered or modified by persons other than Supera LLC; (3) not installed in strict compliance with the applicable codes and ordinances; (4) not installed by Supera LLC or an authorized Supera LLC dealer.

UNDER NO CIRCUMSTANCES SHALL SUPERA LLC BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES AS THOSE TERMS ARE DEFINED IN THE UNIFORM COMMERCIAL CODE.

All items returned for service or repair, are the responsibility of the customer. Proper packing methods should be used in returning items to Supera LLC.

SAMPLE SYSTEM LAYOUT

Supera EVC3000 Waste Gas Evacuation Diagram

2" Sch 40 PVC main line and exhaust - 200' maximum length

1" Sch 40 PVC sub main - 100' maximum length

½" Sch 40 PVC line to outlet - 30' maximum length