



# INTEGRATED RS2/RS3 AIR PURIFICATION SYSTEMS



## FEATURES

### Efficient

- MERV 13 performance in a recirc application.
- Efficiency increases as the media fibers load.

### Removes Odors

- Patented activated-carbon center screen is effective in removing cigarette smoke, pollen, dust, odors, and other contaminants.

### Economical Operation

- The large filter surface area minimizes static pressure drop to allow the blower to run efficiently.

### Easy Maintenance

- No washing of components required.
- The disposable fiber media pads require only a few minutes to change.
- Media pads are generally changed every 4 to 6 months, depending on conditions in the space.
- Sterile Sweep UVC lamps are replaced every 9000 hours, or once every year.

### Safe, Quiet, Dependable Operation

- Does not produce ozone or arcing like other electronic air cleaners.
- Does not produce charged (ionized) particles that collect on clothes, walls, and furnishings.

### Warranty

- Backed by a Five (5) Year Limited Warranty.

## EFFECTIVE AIR CLEANING

The Dynamic RS2 Air Cleaning System includes two 1" Dynamic Polarized-Media Electronic Air Cleaners in a V-Bank configuration to increase filter face area for more effective air cleaning at lower air velocity.

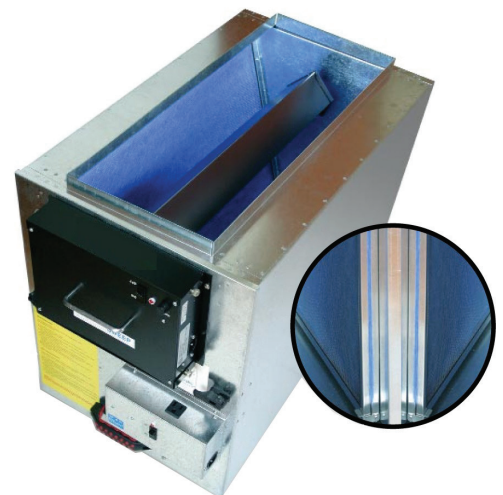
## CONTROL INDOOR POLLUTION

The Dynamic RS3 Air Cleaning System includes two 1" Dynamic Polarized-Media Electronic Air Cleaners in a V-Bank configuration with the addition of a high-output Dynamic Sterile Sweep® UVC system. The Sterile Sweep features an oscillating germicidal lamp that kills pathogens collected by the Dynamic Air Cleaners. The RS3 offers the most effective means of controlling all three elements of indoor air pollution---particulates, biological microbes, and gas-phase odors/VOCs. Both the RS2 and RS3 are available in 1400 and 2400 cfm models. RS3-1400 and RS3-2400 models use the UVLGRS2000-24 Sterile Sweep system.

## DYNAMIC DUO

Both the RS2 and RS3 Air Cleaning Systems are housed in a rugged steel cabinet with an easy-access service drawer that makes service a snap.

	RS2-1400	RS2-2400	RS3-1400	RS3-2400
Pressure Drop (w.g.) @ 1000 cfm	.103"	—	.12"	—
@ 1200 cfm	.151"	.04"	.175"	.06"
@ 1400 cfm	.212"	—	.242"	—
@ 1600 cfm	—	.07"	—	.09"
@ 2000 cfm	—	.12"	—	.15"
UV Replacement Lamp Part No.	—	—	G2-24-LMP	G2-24-LMP
Weight lbs (kg)	42.5 (19.3)	46.5 (21.1)	55 (24.95)	59 (26.76)
Electrical Input:	120/1/60	120/1/60	120/1/60	120/1/60
Powerhead Output Voltage:	7 kV (DC)	7 kV (DC)	7 kV (DC)	7 kV (DC)
Powerhead Volt/Amps Draw:	1.45 VA	1.45 VA	1.45 VA	1.45 VA
Power Consumption:	.95 Watts	.95 Watts	.95 Watts	.95 Watts



# Specifications for RS-2/RS-3 Air Purification System

**1.0 Construction:** The air cleaner box shall be 18 Ga. sheet metal with two (2) 1" Dynamic polarized media electronic air cleaner panels installed. An access door will be provided to service the panels.

## Dynamic Electronic Air Cleaners: 1" Panel, Product Code P-1000

**1.0 General:** The air cleaner shall be a non-ionizing, electronically enhanced, polarized media air cleaner, 1" nominal width.

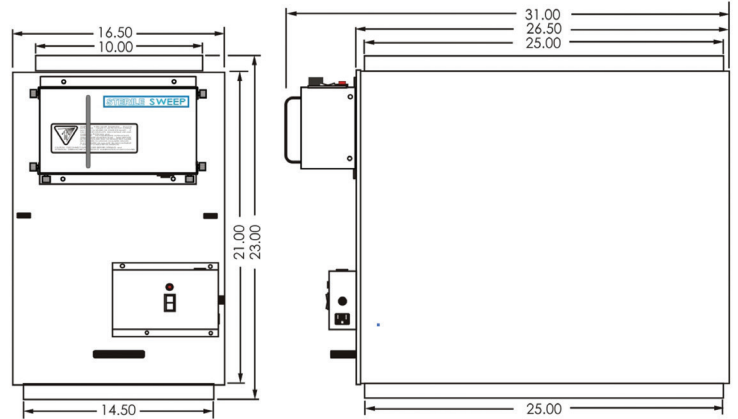
**1.1 Certifications:** The air cleaner shall be tested and meet CSA Standard C22.2 No. 187-M19986, and UL Standard 867 and UL Standard 2998 for electrostatic air cleaners.

**1.2 Operation:** The air cleaner shall have an active electrostatic field that polarizes a dielectric media. It shall not ionize airborne particles or produce ozone.

**1.3 Performance:** The air cleaner shall be able to remove 97% of the airborne particulates 0.3µm and greater in a re-circulating system. Pressure drop across the air cleaner will be no more than 0.2" w.g. @ 300fpm.

**1.4 Construction:** The construction of the air cleaner frame and screens shall be aluminum. The miniaturized electronic power supply (power head) shall be mounted in a channel on the frame of the air cleaner in a non-conductive housing. The glass fiber media pad shall be placed between the outside grounded frame/ screens. Its center mesh shall carry the high DC voltage from the power head. The air cleaner frame shall be hinged so as to allow easy access to the media pad for replacement. If the air cleaner is to be attached to the frame of a rack of air cleaner grill, the air cleaner shall be equipped with a latch system that allows the air cleaner to be opened without removing it.

**1.5 Electronics:** The power head shall be capable of converting 24VAC to 7 kV (DC) and draw no more than two watts of power. The power head shall be insulated from the air cleaner frame and shall transmit the 7 kV (DC) to the center screen of the media pad through a titanium filament. Each power head shall have a "Power On" lamp and be equipped with a high-voltage resistor to de-energize the air cleaner when the power is shut off to the air cleaner.



**1.6 Power Supply:** The 24VAC power supply must be a UL or CSA certified transformer, class "2"-type, which shall permit one side of the secondary output (24V) to be attached to ground.

**1.7 Air Cleaner Media:** Replaceable air cleaner media shall be individual, disposable glass fiber "pillows," which shall consist of two ply of fiberglass with a conductive center screen of metal or activated carbon mesh. This center screen shall be permanently enclosed between the two pieces of fiberglass and shall be disposed of when the media pad is changed. The glass fiber media must be fabricated from a constant filament so that any shed fibers are not respirable. The glass fiber must have a minimum of a class "2" fire rating.

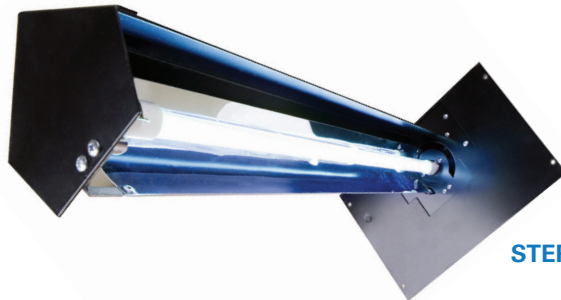
## 1.8 Germicidal UVC Emitter (Optional):

**1.8.1 Certifications:** The unit shall be tested and meet UL Standards 1598 and CSA Standard C22.2 No. 250.0-00.

**1.8.2 Performance:** The UVC lamp shall be a high output H lamp with output of 180 microwatts in the 250-260 nm range.

**1.8.3 Installation:** The UVC lamp shall be permanently mounted to the RS4 access door. All access shall be labeled in accordance with ISHA regulations for UVC devices.

**1.8.4 Electrical:** Input voltage to the units shall be 120vac. The unit shall draw a peak of .3 amps and shall be equipped with an interlock switch so that power will be cut to the unit if the RS4 access door is removed from the system.



STERILE SWEEP

