

Ultraviolet Room Air Sanitizers

Product Overview

- Blower capacity 54 to 2000 CFM
- Max treatment 3240 - 120,000 cubic feet per hour
- Destroys harmful bacteria, mold and viruses in the air
- For occupied areas, in many configurations to adapt to any setting
- Units may be mounted into a drop ceiling, on a wall or are available for portable use
- Washable Electrostatic, Absolute H.E.P.A. Type or disposable particulate filters available

Features

Germicidal Lamps provide the utmost in quality, sustained high output and long life. **Lampholders** are spring loaded telescopic type that facilitate convenient, easy lamp change that is quick and hassle-free.

Interlock Safety Switch The interlock safety switch is a standard feature that disconnects power to the unit when the access panel is removed for lamp or filter replacement.

Polished Reflector Interior chamber is polished providing a highly reflective surface to maximize ultraviolet intensity within the chamber.

Standard Wall Mount Kit Consists of (2) pre-drilled stainless steel brackets. Brackets enable unit to be mounted to wall in either the vertical or horizontal position.

Louvered Exhaust Panel Protects the room's occupants from ultraviolet exposure by restricting ultraviolet radiation from passing into the room.

Observation Port(s) A visible glow through the clear sight glass provides positive indication of germicidal lamp operation.

Stainless Steel Construction The chamber is Type 304 stainless steel for an attractive finish, unparalleled strength and durability.

Particulate Filter Washable Electrostatic Filter.



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PAGE(S)

1/7

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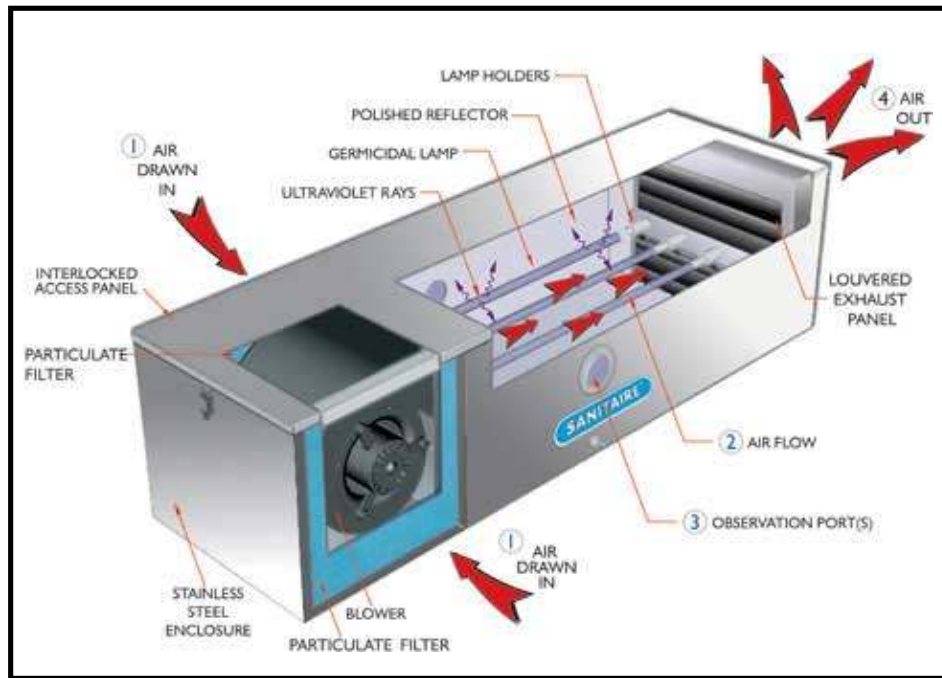


Fig. 1

Principal of Operation

- (1) Fig. 1 Air is drawn into unit through washable electrostatic particulate filters (except Model RSM2680 which utilizes disposable filters).
- (2) Air is forced into ultraviolet exposure chamber where it is irradiated by germicidal ultraviolet light (lamp quantity varies per model).
- (3) Observation port provides positive indication of germicidal lamp operation.
- (4) Purified air leaves exposure chamber through the louvered exhaust panel (which restricts ultraviolet radiation from passing into the room).

Uses and Applications

Sanitaire® Room Air Sanitizers are germicidal ultraviolet fixtures that effectively destroy airborne microbes including bacteria, mold and virus in enclosed spaces and are available in a number of different configurations to adapt to any setting.

Sanitaire® Room Air Sanitizers utilize STER-L-RAY™ germicidal lamps which are completely enclosed within a stainless steel exposure chamber and are safe for use in every application.

Sanitaire® Room Air Sanitizers may be mounted into the ceiling, on a wall or are available for portable or mobile use.

Sanitaire® Room Air Sanitizers are utilized to protect personnel, clients and patients from infection due to airborne microbes, particularly in crowded or poorly ventilated areas, and in situations where the risk of cross infection is high.

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PAGE(S)

2/7

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Sanitaire® RS72 or RS140 - wall or ceiling mount, Residential or Commercial



Sanitaire® RSCS280 - recessed ceiling mount, Commercial



Sanitaire® RSM2680 - mobile unit, Commercial

Residential Models

Model	Nominal (1) Unit Capacity (CFM)	Dimensions			Electrical* (2) Requirement	Max. Room Size Treated @ 3 Room Air Changes/Hour	Max. Room Size Treated @ 6 Room Air Changes/Hour	Max. Treatment Capacity (CFM)
		L	W	H				
250032	54	34-1/2"	7-3/4"	7-3/4"	1.30 amp	1,080 Cubic Ft.	540 Cubic Ft.	3240
250082	105	34-1/2"	7-3/4"	7-3/4"	2.30 amp	2,100 Cubic Ft.	1,050 Cubic Ft.	6300

(1) Unit capacity incorporates an estimated allowance for airflow friction loss across filter and unit.

(2) Information listed refers to 230 Volt 50/60 Hz units. Contact factory for specifics on other voltages. *Consult factory with specific power requirements.

Commercial Models

Model	Nominal(1) Unit Capacity (CFM)	Dimensions			Electrical* (2) Requirement	Max. Room Size Treated @ 3 Room Air Changes/Hour	Max. Room Size Treated @ 6 Room Air Changes/Hour	Max. Treatment Capacity (CFM)
		L	W	H				
250032	54	34-1/2"	7-3/4"	7-3/4"	1.30 amp	1,800 Cubic Ft.	540 Cubic Ft.	3240
250082	105	34-1/2"	7-3/4"	7-3/4"	2.90amp	2,100 Cubic Ft.	1,050 Cubic Ft.	6300
250125	326	47-5/16"	14"	12"	4.93 amp	6,525 Cubic Ft.	3,263 Cubic Ft.	19,975
	380	59"	14"	12"	5.96 amp	7,600 Cubic Ft.	3,800 Cubic Ft.	22,800
	210	46-5/8"	22-1/8"	9-7/16"	4.26 amp	4,200 Cubic Ft.	2,100 Cubic Ft.	12,600
	2000	39"	39"	78-3/4"	11.00 amp	40,000 Cubic Ft.	20,000 Cubic Ft.	120,000

(1) Unit capacity incorporates an estimated allowance for airflow friction loss across filter and unit.

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PAGE(S)

3/7

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Germicidal Lamp Data

STER-L-RAY™ germicidal lamps are shortwave, low pressure mercury vapor discharge tubes that produce ultraviolet wavelengths lethal to microorganisms.

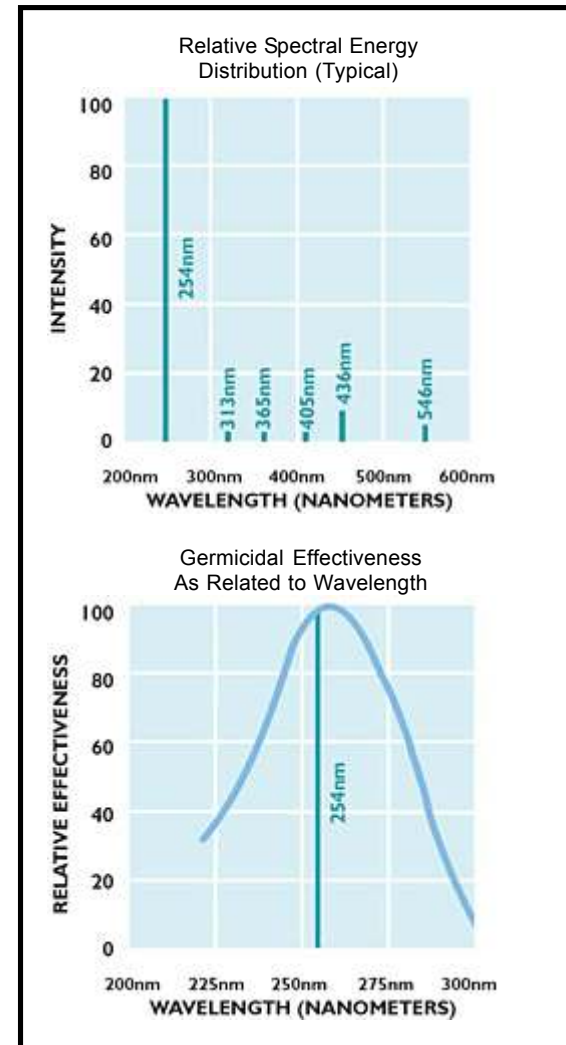


Lamp No. (Quantity)	Model No.	Lamp Length	Lamp Length (including lampholders)	(1) Power Consumption	(2) UV Output [per lamp]	Rated Effective Life [Hrs.]
05-1348 (1) (2)	RS72 RS140	21-7/8" (556mm)	24"	25 Watts	8.5	10,000
05-1352 (4) (4) (4)	RS435 RSA760 RSCS280	27-7/8" (708mm)	30"	32 Watts	11.2	10,000
05-1334 (12)	RSM2680	45-7/8" (1165mm)	48"	50 Watts	19.3	10,000

(1) Wattage is lamp watts only and does not include ballast loss.

(2) Ultraviolet output at 254 nanometers at 100 hours and 80 degrees Fahrenheit (approximate).

Operating Characteristics



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PAGE(S)

4/7

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Germicidal Ultraviolet Dosage

ORGANISM	ALTERNATE NAME	TYPE	DISEASE	DOSE*
<i>Corynebacterium diphtheriae</i>	<i>C. diphtheriae</i>	Bacteria	Diphtheria	6,500
<i>Legionella pneumophila</i>	<i>L. pneumophila</i>	Bacteria	Legionnaire's Disease	2,700
<i>Mycobacterium tuberculosis</i>	<i>M. tuberculosis</i>	Bacteria	Tuberculosis (TB)	10,000
<i>Pseudomonas aeruginosa</i>	<i>P. aeruginosa</i>	Bacteria		3,900
<i>Serratia Marcescens</i>	<i>S. marcescens</i>	Bacteria		6,160
<i>Staphylococcus aureus</i>	<i>S. aureus</i>	Bacteria		6,600
<i>Staphylococcus epidermidis</i>	<i>S. epidermidis</i>	Bacteria		5,800
<i>Adeno Virus Type III</i>		Virus		4,500
<i>Coxsackie A2</i>		Virus		6,300
<i>Influenza</i>		Virus	Flu	3,400



*Nominal Ultraviolet dosage ($\mu\text{WSec}/\text{cm}^2$) necessary to inactivate better than 99% of specific microorganism. Consult factory for more complete listing.

Replacement Parts

Lamp(s)

RS72, 2C-RS (05-1348-R)
RS140, 3B-RS (05-1348-R)
RS435, 6B-RS (05-1352-R)
RSA760, 6-ARS (05-1352-R)
RSCS280 (05-1352-R)
RSM2680 (05-1352-R)

Ballast(s)

RS72, RS140, RS435, RSA760, RSCS280
 120v 50/60Hz (10-0137)
 220v 50/60Hz (10-0136)

Washable Filter(s)

RS72, 2C-RS (40-1268A)
RS140, 3B-RS (40-1268A)
RS435, 6B-RS (40-1266B)
RSA760, 6-ARS (40-1266B)
RSCS280 (40-0062A)
RSA760 (40-0021A)

Disposable Filter(s)

RS72 (40-0010A)
RS140 (40-0010A)
RS435 (40-0011A)
RSA760 (40-0011A)
RSCS280 (40-0119)

Hepa Filter(s)

RSA760 (40-0021A)

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PAGE(S)

5/7

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Monitoring Options



The Sentinel™ Remote Lamp Indicator

The Sentinel™ **Remote Lamp Indicator** monitors lamp operation of one, two, or four lamp ultraviolet fixtures and is equipped with a 25-foot connector cord. Additional 25-foot extensions are available.

The Sentinel™ **Remote Lamp Indicator** can be configured for use with a wide variety of germicidal ultraviolet fixtures and will operate either 120 Volt 56/60 Hertz or 220-240 Volt 50/60 Hertz fixtures using either magnetic or electronic ballasts. The Sentinel™ **Remote Lamp Indicator** mounts on a surface within 25' of an ultraviolet unit. The wires and sensors of the Sentinel™ are connected to the fixtures through holes in the wall of the fixture. The sensors detect the flow of current from the lamps, activating the indicators on the face of the Sentinel™. When a sensor does not detect a current, its corresponding indicator will not light. For use with various lines of air disinfection equipment.

Complete Part Number Description

- 350250A1 For use with fixture utilizing SINGLE lamp & electronic ballast
- 350250A2 For use with fixture utilizing TWO lamps & electronic ballast(s)
- 350250A3 For use with fixture utilizing FOUR lamps & electronic ballast(s)
- 350250A4 For use with fixture utilizing SINGLE lamp & magnetic ballast
- 350250A5 For use with fixture utilizing TWO lamps & magnetic ballast(s)
- 350250A6 For use with fixture utilizing FOUR lamps & magnetic ballast(s)



Zenith™ Ultraviolet Meter

The Zenith™ **ultraviolet meter** is a sensitive, hand-held, ultraviolet meter; used to check the intensity of aging ultraviolet lamps and survey rooms utilizing an air sanitizer to ensure that the ultraviolet radiant exposure of personnel within the treated area is within acceptable limits.

The Zenith™ ultraviolet meter provides accurate and easy-to-read-levels of intensity. A narrow ultraviolet band pass filter in combination with the photodiode detector makes the Zenith™ insensitive to ambient lighting within the area being surveyed. Zenith™ monitor is powered by a single 9-volt DC alkaline battery and an internal battery-saver will automatically shut off the meter after 30 minutes of inactivity.

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PAGE(S)

6/7

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Optional Accessories



Particulate Filter
Washable Electrostatic Filter



Disposable Filters
Inexpensive, disposable cardboard frame filters for use when frequent filter changes are necessary.



Optional Wall Mount Kit
Consists of (2) pre-drilled stainless steel brackets. Brackets are designed to allow unit to be mounted to the wall in a horizontal position.



Ceiling Mount Kit
Consists of (4) eye bolts used to suspend unit from ceiling.



Integral Elapsed Time Indicator
The Elapsed Time Indicator is a real-time, non-resettable display of accumulated operating time. Useful for scheduling and recording maintenance and lamp replacement. Installed at factory.



Integral Key Lock Switch
The Key Lock Switch will insure tamperproof operation in either on or off position. Installed at factory.



Standard Wall Mount Kit
Consists of (2) pre-drilled stainless steel brackets. Brackets enable unit to be mounted to wall in either the vertical or horizontal position.

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PAGE(S)

7/7

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