

Overview

- Purifies air with ultraviolet technology
- Kills mold and mold odor
- Removes smoke & other strong odors
- Destroys harmful bacteria, mold and viruses in the air
- Units may be mounted on a wall or are available for portable use
- Washable Electrostatic particulate filters
- Disposable filters available for most models

Features

- Germicidal Lamps** Genuine STER-L-RAY™ Ultraviolet Germicidal Ozone Producing Lamps provide the utmost in quality, sustained high output and long life.
- Lampholders Steadfast™** 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.
- 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. Generator should be used in unoccupied area.
- 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, unparallelled strength and durability.
- Particulate Filter** - Washable Electrostatic Filter



TITLE

Monozone™ Ozone Generator

Blaze Technology Pte Ltd

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Monozone™
OZONE GENERATORS

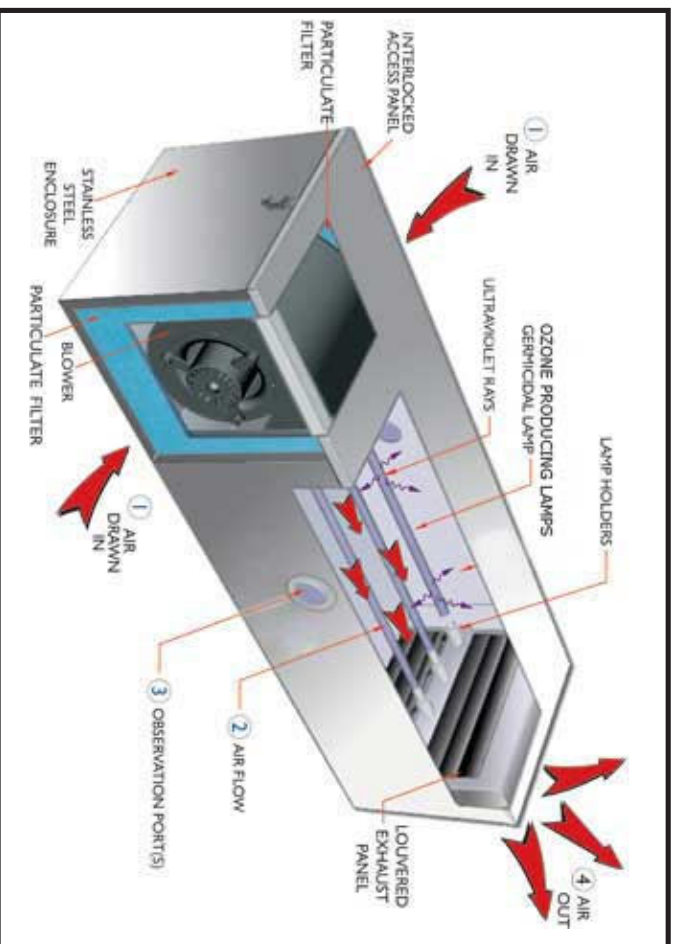


Fig. 1

Principal of Operation

- (1) Air is drawn into unit through washable electrostatic particulate filters (Fig. 1 shown is Model 6-OZ Ozone Generators 40-1503A).
- (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 and ozone leaves exposure chamber through the louvered exhaust panel (which restricts ultraviolet radiation from passing into the room).

Commercial Models

Model	Nominal Unit Capacity (CFM)	Dimensions			Electrical * Requirement	Max. Room Size Treated @ 3 Room Air Changes /hour	Max. Room Size Treated @ 6 Room Air Changes /hour	Max. Treatment Capacity (CFM)
		Length	Width	Height				
2-OZ	54	34-1/2"	7-3/4"	7-3/4"	1.30 amp	1,080 Cubic Ft.	540 Cubic Ft.	3240
3-OZ	105	34-1/2"	7-3/4"	7-3/4"	2.90 amp	2,100 Cubic Ft.	1,050 Cubic Ft.	6300
6-OZ	326	47-5/16"	14"	12"	4.93 amp	6,525 Cubic Ft.	3,263 Cubic Ft.	19,575

- (1) Unit capacity incorporates an estimated allowance for airflow friction loss across filter and unit.
 - (2) Information listed refers to 120 Volt 60 Hz units. Contact factory for specifics on other voltages.
- * Consult factory with specific power requirements.

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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)	Lamp Length	Lamp Length (including lampholders)	(1) Power Consumption	(2) UV Output [per lamp]	Ozone Output	Rated Effective Life [Hrs.]
05-1349 (1/2-OZ) (2/3-OZ)	21-7/8" (556mm)	24"	25 Watts	8.5	2.3	10,000
05-1352 (4/6-OZ)	27-7/8" (708mm)	30"	32 Watts	11.2	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).

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

CAUTION: Overexposure to direct or reflected germicidal ultraviolet rays will cause painful eye irritation and reddening of the skin. Personnel subject to such exposure must wear suitable face shield, gloves and protective clothing.

Ster-L-Ray™ Ozone-Producing Lamps - Ozone (O₃) is a highly reactive form of oxygen and is useful in water purification, as a deodorizer and as a cleaning agent. Ultraviolet wavelengths shorter than 200 nanometers are capable of producing ozone from oxygen (O₂) in the air. The mercury vapor arc, in addition to producing considerable ultraviolet output at 254 nm, also produces a small amount of output at 185 nm.

Ster-L-Ray™ ozone producing lamps is transparent to both germicidal (254 nm) and ozone producing (185 nm) wavelengths.

Because it is necessary to avoid exposing personnel to high concentrations of ozone, the use of ozone lamps is limited to applications in which ozone concentration will not exceed .05 parts per million in occupied spaces.

Ster-L-Ray™ ozone producing lamps are available in slimline, cold cathode and preheat types.

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Installation and Maintenance

Installation and Operating Caution:

Monozone™ Ozone Generators produce high quality ozone without oxides and nitrogen as is produced in Corona Discharge type of Ozone Generator.

Monozone™ Ozone Generators are intended for use in scientific research and industrial and commercial ozonation applications and are not intended for use in occupied areas. (The Food and Drug Administration prohibits any device that generates or causes an accumulation of more than 0.05 P.P.M. of ozone in the atmosphere of an enclosed space intended to be occupied by people for extended periods of time.)

Before performing maintenance on your Monozone™ Ozone Generator, be sure to unplug the unit from the wall socket to prevent unnecessary exposure to ultraviolet rays or hazard of electrical shock.

Even short exposure to direct or strongly reflected ultraviolet germicidal rays will cause painful eye irritation and reddening of the skin.

Personnel subject to such exposure must wear suitable face shield, gloves and clothing.

MAINTENANCE:

A regular cycle of cleaning the lamp and filter should be established based on visual inspection and experience. The frequency of cleaning will vary with the conditions surrounding each installation. However, we recommend that the lamp and air filter be cleaned at least once every three months.

Frequent cleanings will insure:

1. Maximum germicidal efficiency.
2. Continued, efficient filtration performance as a result of maximum electrostatic effect.
3. Continued treatment of rated air capacity as a result of low filter resistance.

TO CLEAN FILTER:

The filter provided with your Monozone™ Ozone Generator is a permanent, washable, electrostatic filter. In most applications, regular vacuuming will maintain peak performance. Merely vacuum the upstream sides first, then repeat on the discharge side.

Periodically, a thorough flush with clean water is recommended to release any dirt not removed by vacuuming.

It is not necessary to dry the filter before returning to service - merely shake off the excess water and it is ready for use.

When heavy grease concentrations are encountered, it is advisable to wash the filter with a detergent solution to allow the grease concentration to be dissolved.

The detergent solution should then be rinsed thoroughly before the filter is returned to service. Filters may be cleaned repeatedly without physical deterioration or loss of efficiency.

TO CLEAN OZONE ULTRAVIOLET LAMP:

The ozone ultraviolet lamps used in your Monozone™ Ozone Generator, are premium high output instant start lamps with 10,000-rated effective life. For best results, it is recommended that lamps be replaced after 10,000 hours operation.

Lamps should be cleaned periodically with clean rag and water or alcohol as even a slight film or layer of dust will significantly reduce their ability to produce ozone. Inspect carefully to insure that glass is thoroughly cleaned. It is recommended that lamps be cleaned each time the filter maintenance is performed.

Finally remove any visible dust from the interior of the Ozone Generator with a vacuum cleaner or soft clean cloth. If you have any questions regarding installation, operation or maintenance, please contact the factory.

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Optional Accessories

Non-Resettable 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.

All Models (30-1008A)(Remote type 0-99,999 hours) or choose the Integral 12-Hour Timer (30-0010).

Replacement Parts

Lamp: G24T6VH (05-1349)

Lamp: G30T6VH (05-0050)

Lampholder: Set of 2 (05-1320A)

Ballast: ST35 (10-1049)

Ballast: ET64-2 (10-1078)

Filter: Washable 7 3/4" x 7 3/4" x 1" (40-1263A)

Filter: Washable 12" x 12" x 1" (40-1266A)

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