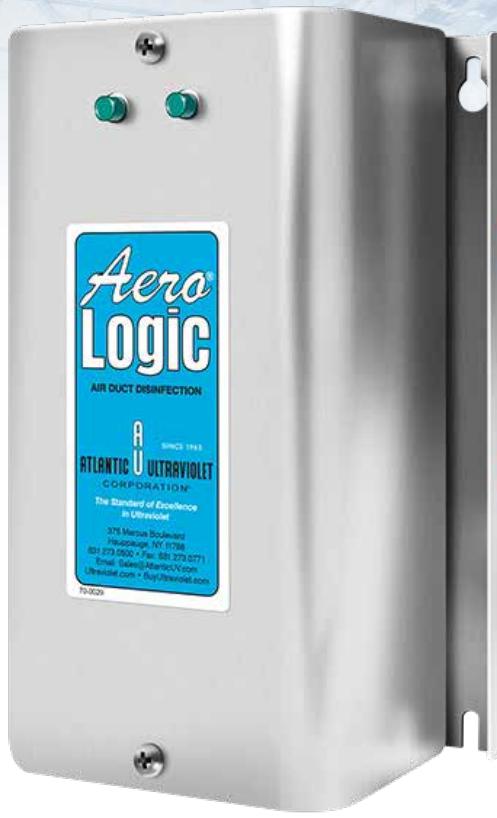
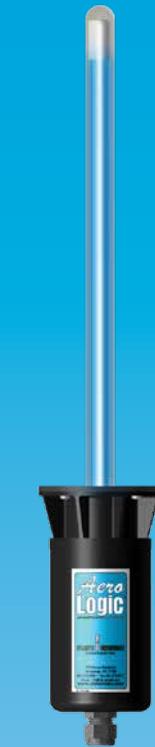


AeroLogic®

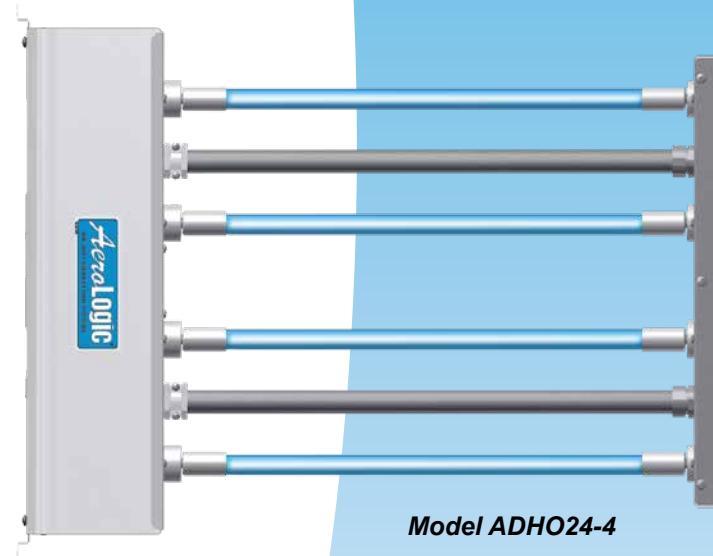
GERMICIDAL ULTRAVIOLET AIR DUCT DISINFECTION SYSTEMS



Model AD24-2



Model AERO-24



Model ADHO24-4



SINCE 1963
ATLANTIC
ULTRAVIOLET
CORPORATION®

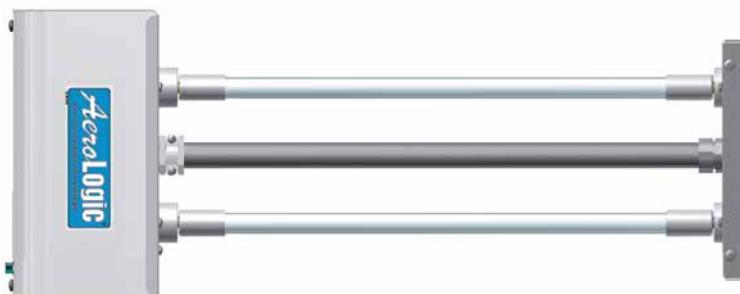
ABOUT US



Since 1963, we've been engineering and manufacturing germicidal ultraviolet equipment to prevent disease caused by contaminants in water, in air, and on surfaces. Our engineers bring each concept to a finished model, implementing stringent quality control procedures. Each product is manufactured with stainless steel and the highest quality materials to ensure the safety of personnel and room occupants. We stock an extensive inventory in our 37,500 square foot facility and ship throughout the world. Our knowledgeable team of UV-C specialists will provide effective and cost-conscious solutions for your home, business, industry, or institution.



Model AERO-24



Model AD24-2

GERMICIDAL ULTRAVIOLET

Germicidal Ultraviolet is a unique and rapid method of disinfection. It utilizes germicidal ultraviolet lamps producing ultraviolet wavelengths at 254 nanometers (nm)—a level that is lethal to bacteria, viruses and other microorganisms.

An ever growing range of industries and consumer applications have found ultraviolet to be the ideal solution for their air and surface treatment needs.



PRINCIPLE OF OPERATION

ADVANTAGES

Economical

System requires very little power to operate.

Safe

No risk of over-exposure.

Fast

Disinfects both air and exposed surfaces in seconds.

Easy

Simple installation and maintenance.

Automatic

Continuous disinfection without special attention.

Durable

Polished stainless steel and/or aluminum.

Versatile

Numerous models available to handle various duct sizes and configurations.

Low Maintenance

Requires only annual lamp replacement and periodic cleaning.

AeroLogic® is primarily used for installation in new and existing HVAC (Heating, Ventilating & Air Conditioning) systems. The air that passes over the installed **AeroLogic®** is subjected to UV-C rays from the germicidal ultraviolet lamp (or lamps). These germicidal rays destroy airborne microbes including bacteria, mold, and viruses.

The **AeroLogic®** Air Duct installation presents centralized and non-intrusive applications that are useful on their own or in conjunction with additional air circulation and filtration technologies. When used together, these systems provide high level protection solutions.

The **AeroLogic®** design has been carefully conceived to provide adequate germicidal dosage for air stream or surface disinfection. The UV-C dose provided is a function of the UV exposure time and the intensity of the lamps.

Our UV Application Specialists would be happy to perform the necessary calculations to ensure the model we provide is appropriate for your particular application.



Model ADHO24-4



AeroLogic® One Lamp Air Duct Model

Utilize the **AeroLogic® One Lamp Germicidal Ultraviolet Air Duct Disinfection System** in residential HVAC systems for reduction and/or elimination of the growth of bacteria, mold and spores, and to help control the spread of airborne cold, flu, and other airborne transmitted diseases.

The following information is required to size an ultraviolet system for duct air treatment:

- Duct or plenum size
- Length of compartment or duct where **AeroLogic®** is to be installed
- Air speed typically provided in CFM (cubic feet per minute)
- Approximate air temperature

With this information, an Ultraviolet Application Specialist can calculate the approximate contact time and lamp output required under these conditions and recommend the **AeroLogic®** model needed.

STER-L-RAY®

Germicidal Ultraviolet Lamp

Lamp is instant starting and provides the utmost in quality, sustained output and longevity. (See page 11 for more information.)

CRYSTAL CLEAR™ Quartz Sleeve

A unique feature of the **AeroLogic® One Lamp Germicidal Ultraviolet Air Duct Model** is the use of a specially designed quartz sleeve to protect and insulate the germicidal ultraviolet lamp. The quartz sleeve protects the ultraviolet lamp from deposits of dirt and/or dust while insulating it from low air temperatures and the cooling effects of high air velocities in the air duct, ensuring optimum ultraviolet output.

Construction

Designed for use in residential applications, the **AeroLogic® One Lamp Air Duct Model** is constructed of lightweight, anodized aluminum alloy. The anodized aluminum alloy offers an increased surface hardness, for durability, and corrosion resistance similar to that of stainless steel. This rugged construction along with a water-resistant power cord, rated for indoor/outdoor use, and liquid-tight cord grip all work to form a "drip-proof" assembly.

Steadfast™ Bayonet Socket Mount Lampholder

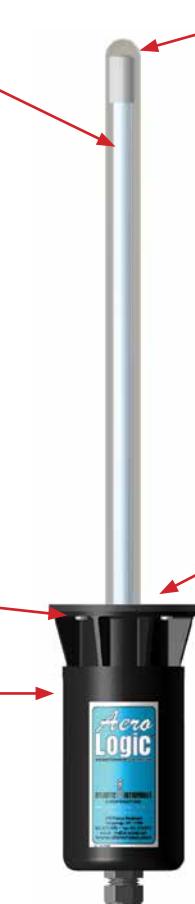
Bayonet Socket Mount four-pin lampholder fastens the lamp securely while providing quick and easy lamp change.

Surelite™ Ballast

State-of-the-art electronic ballast specifically developed for the operation of ultraviolet lamps. Versatile ballast provides high lamp output; is lightweight, efficient, and operates cool for longer life.

Promate™ Observation Port/Sight Glass Assembly and Mounting Hardware (included)

A Sight Glass Assembly allows for visual inspection of the lamp, without the need to remove the **AeroLogic®** from the duct (see page 5).



Model AERO-24

(see page 10 for Optional Accessories)

Mounting Hardware and Gasket - (included)

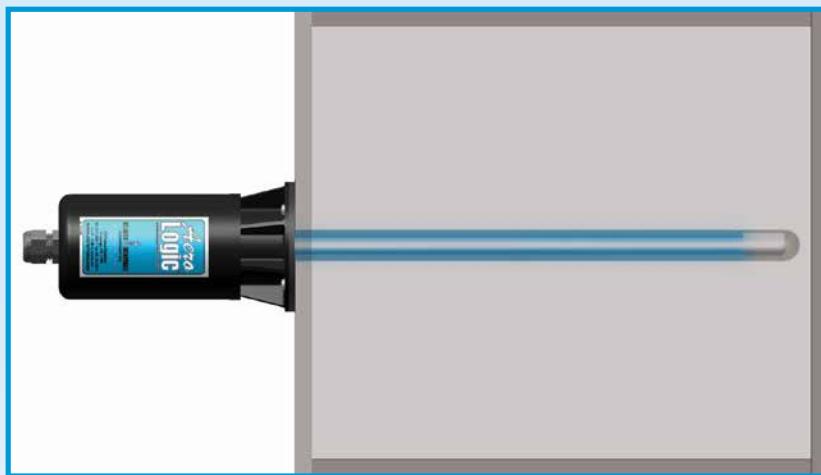


Figure 1 - Partial Internal Mount - Lamps installed inside and ballast enclosure on outside of duct.

The [AeroLogic® One Lamp Germicidal Ultraviolet Air Duct Models](#) are used for installation in new and existing HVAC systems, and are mounted onto the outside of the air duct.



**Promate™ Observation Port/
Sight Glass Assembly**

A Sight Glass Assembly allows for visual inspection of the lamp, without the need to remove the [AeroLogic®](#) from the duct.

SPECIFICATIONS—[AeroLogic® 1-Lamp Residential Germicidal Ultraviolet Air Duct Models](#)

Model	Lamp ①	Lamp Watts ②	Total Ultraviolet Output ③	Dimensions	
				Length (Into Duct) ④	Overall Length
AERO-8	05-1119-R	10.0 Watts	2.7 Watts	7-5/32"	14-7/16"
AERO-12	05-1366-R	14.0 Watts	4.0 Watts	10-7/64"	17-25/64"
AERO-14	05-0218-R	18.4 Watts	5.8 Watts	14"	21-9/32"
AERO-16	05-1370-R	21.0 Watts	7.3 Watts	15-31/32"	23-1/4"
AERO-18	05-1523-R	23.0 Watts	8.0 Watts	17-1/32"	24-5/16"
AERO-20	05-0117-R	25.6 Watts	8.5 Watts	20"	27-9/32"
AERO-24	05-0097A-R	30.0 Watts	10.4 Watts	23-7/32"	30-1/2"
AERO-26	05-0219-R	32.0 Watts	11.0 Watts	26"	33-9/32"
AERO-32**	05-1382-R	41.0 Watts	15.0 Watts	32"	39-9/32"
AERO-44**	05-0197-R	55.0 Watts	21.0 Watts	44"	51-9/32"

① Rated average lamp life is 10,000 hours.

② Total lamp watts.

③ Ultraviolet Output at 254 nanometers at 100 hours and 80° F (approximate).

④ See Figure 1 above for an illustration of Partial Internal Mounting.

** Not recommended for horizontal mount application.

• 120 Volts 50/60 Hz and 230 Volts 50/60 Hz models are standard. Specify when ordering.

• Available in various voltages. Consult factory with specific power requirements.

• Models with other lamp sizes may be available. Consult factory with specific requirements.

AeroLogic® 1 and 2 Lamp Air Duct Model

Utilize the **AeroLogic® 1 and 2 Lamp Germicidal Ultraviolet Air Duct Disinfection System** in your home or commercial / industrial building HVAC system to reduce and/or eliminate the growth of bacteria, mold, and spores. The **AeroLogic®** also helps control the spread of airborne cold, flu, and other airborne transmitted diseases.

The following information is required to size an ultraviolet system for duct air treatment:

- Duct or plenum size
- Length of compartment or duct where **AeroLogic®** is to be installed
- Air speed typically provided in CFM (cubic feet per minute)
- Approximate air temperature

With this information, an Ultraviolet Application Specialist can calculate the approximate contact time and lamp output required under these conditions and recommend the **AeroLogic®** model needed.

STER-L-RAY®

Germicidal Ultraviolet Lamps

Lamp(s) are instant starting and provides the utmost in quality, sustained output, and longevity.

(See page 11 for more information.)

ArmorLite™ Safety Shield

Protective coating can be applied to **STER-L-RAY®** Germicidal Lamps used in the **AeroLogic® 1 and 2 Lamp Germicidal Ultraviolet Air Duct Models** to

ensure protection for employees, products, and work environments by eliminating the dangers associated with fragments of broken lamps and mercury contamination. (See page 10 for Optional Accessories.)

Construction

Designed for use in demanding

applications; the ballast housing of the

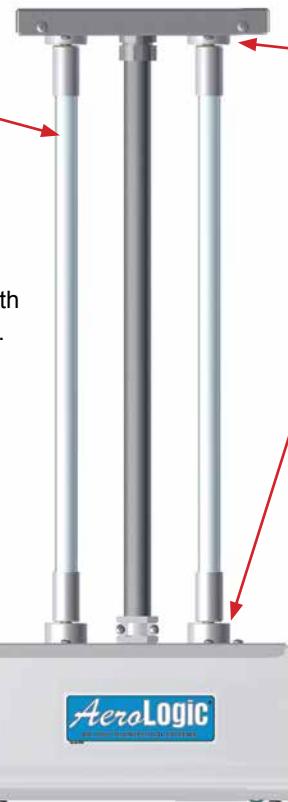
AeroLogic® 1 and 2 Lamp Air Duct

Models are constructed in Type 304

Stainless Steel.

Surelite™ Ballast

State-of-the-art electronic ballast(s) specifically developed for the operation of ultraviolet lamps. Versatile ballasts provide high lamp output; are lightweight, efficient, and operate cool for longer life.



Model AD-24-2

(see page 10 for Optional Accessories)

Steadfast™ Lampholders

Single pin lampholder set (includes one stationary end and one spring end) holds lamp(s) securely while providing quick and easy lamp change.

Promate™ Observation Port/ Sight Glass Assembly and Mounting Hardware (included)

A Sight Glass Assembly allows for visual inspection of the lamp(s), without the need to remove the **AeroLogic®** from the duct (see page 7).

Mounting Hardware and Gasket (included)

SENTINEL® Output Connector

Optional (See page 10 for Optional Accessories.)

Lamp Operation Indicators

LEDs provide positive indication of each germicidal lamp operation.

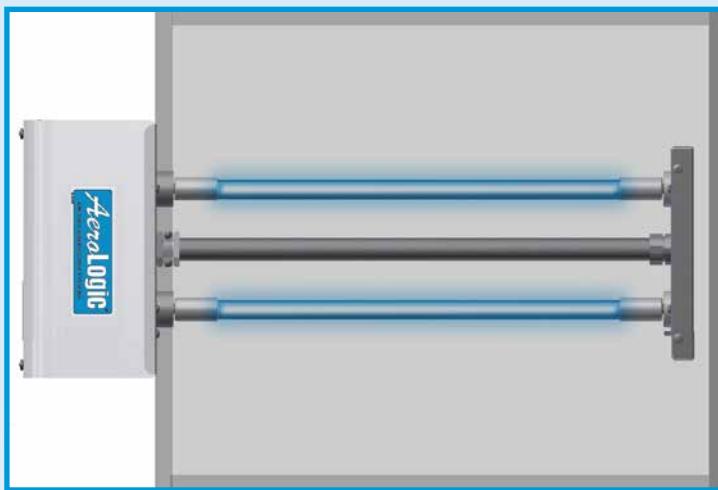


Figure 2 - Partial Internal Mount - Lamps installed inside and ballast enclosure on outside of duct.

The **AeroLogic® 1 and 2 Lamp Germicidal Ultraviolet Air Duct Models** are used for installation in new and existing HVAC systems, and are mounted onto the outside of the air duct.



Promate™ Observation Port/ Sight Glass Assembly

A Sight Glass Assembly allows for visual inspection of the lamp, without the need to remove the **AeroLogic®** from the duct.

SPECIFICATIONS—AeroLogic® 1-Lamp & 2-Lamp Residential & Commercial Germicidal Ultraviolet Air Duct Models

Model	Lamp ①	Lamp(s) Watts ②	Total Ultraviolet Output ③	Lamp Extension (Into Duct) ④	Exterior Housing Dimensions		
					Height	Width ⑤	Depth
AD12-1	05-1500-R (1)	11.0 Watts	3.1 Watts	10-3/4"	8"	5-19/32"	2-7/8"
AD18-1	05-1340-R (1)	18.4 Watts	5.8 Watts	16-3/4"	8"	5-19/32"	2-7/8"
AD24-1	05-1348-R (1)	25.6 Watts	8.5 Watts	22-3/4"	8"	5-19/32"	2-7/8"
AD30-1	05-1352-R (1)	32.0 Watts	11.2 Watts	28-3/4"	8"	5-19/32"	2-7/8"
AD36-1	05-1343-R (1)	41.0 Watts	15.0 Watts	34-3/4"	8"	5-19/32"	2-7/8"
AD48-1	05-1334-R (1)	55.0 Watts	21.0 Watts	46-3/4"	8"	5-19/32"	2-7/8"
AD12-2	05-1500-R (2)	22.0 Watts	6.2 Watts	10-3/4"	8"	5-19/32"	2-7/8"
AD18-2	05-1340-R (2)	36.8 Watts	11.6 Watts	16-3/4"	8"	5-19/32"	2-7/8"
AD24-2	05-1348-R (2)	51.2 Watts	17.0 Watts	22-3/4"	8"	5-19/32"	2-7/8"
AD30-2	05-1352-R (2)	64.0 Watts	22.4 Watts	28-3/4"	8"	5-19/32"	2-7/8"
AD36-2	05-1343-R (2)	82.0 Watts	30.0 Watts	34-3/4"	8"	5-19/32"	2-7/8"
AD48-2	05-1334-R (2)	110.0 Watts	42.0 Watts	46-3/4"	8"	5-19/32"	2-7/8"

① Rated average lamp life is 10,000 hours.

② Total lamp watts.

③ Ultraviolet Output at 254 nanometers at 100 hours and 80° F (approximate).

④ See **Figure 2** above for an illustration of Partial Internal Mounting.

⑤ Including flange.

• 120 Volts 50/60 Hz and 230 Volts 50/60 Hz models are standard. Specify when ordering.

• Available in various voltages. Consult factory with specific power requirements.

• Models with other lamp sizes may be available. Consult factory with specific requirements.

AeroLogic® 2 and 4 Lamp Commercial Air Duct Model

Utilize the **AeroLogic® 2 and 4 Lamp Germicidal Ultraviolet Air Duct Disinfection System** in your commercial or industrial building HVAC system to reduce and/or eliminate the growth of bacteria, mold, and spores, and to help control the spread of airborne cold, flu, and other airborne transmitted diseases.

The following information is required to size an ultraviolet system for duct air treatment:

- Duct or plenum size
- Length of compartment or duct where **AeroLogic®** is to be installed
- Air speed typically provided in CFM (cubic feet per minute)
- Approximate air temperature

With this information, an Ultraviolet Application Specialist can calculate the approximate contact time and lamp output required under these conditions and recommend the **AeroLogic®** model needed.

STER-L-RAY® High Output Germicidal Ultraviolet Lamps

High Output (HO) germicidal lamps yield more UV watts than standard UV-C lamps of the same length.
(See page 11 for more information.)

ArmorLite™ Safety Shield

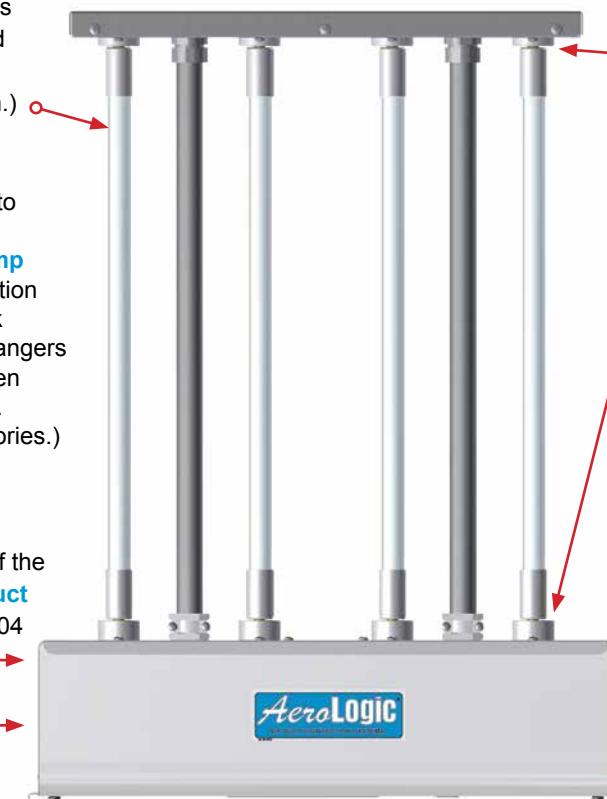
Protective coating can be applied to **STER-L-RAY®** Germicidal Lamps used in the **AeroLogic® 2 & 4 Lamp Air Duct Models** to ensure protection for employees, products, and work environments by eliminating the dangers associated with fragments of broken lamps and mercury contamination.
(See page 10 for Optional Accessories.)

Construction

Designed for use in demanding applications; the ballast housing of the **AeroLogic® 2 and 4 Lamp Air Duct Models** are constructed in Type 304 Stainless Steel.

Surelite™ Ballasts

State-of-the-art electronic ballasts specifically developed for the operation of ultraviolet lamps. Versatile ballasts provide high lamp output; are lightweight, efficient, and operate cool for longer life.



Model ADHO24-4

(see page 10 for Optional Accessories)



Partial Internal Mount - Lamps installed inside and ballast enclosure on outside of duct.

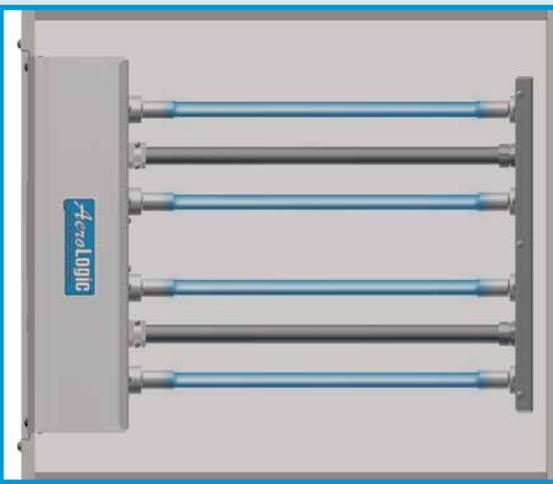


Figure 3

Full Internal Mount- Whole model installed within duct.

The **AeroLogic® 2 and 4 Lamp Germicidal Ultraviolet Air Duct Models** are used for installation in new and existing HVAC systems, and are mounted onto the inside or outside of the air duct. The two most common positions are shown above (mounted perpendicular to airflow). Many other mounting positions can be achieved using brackets that are supplied with each **AeroLogic®**.



Promate™ Observation Port / Sight Glass Assembly

A Sight Glass Assembly allows for visual inspection of the lamp, without the need to remove the **AeroLogic®** from the duct.

SPECIFICATIONS—AeroLogic® 2-Lamp & 4-Lamp Commercial Germicidal Ultraviolet Air Duct Models

Model	Lamp ①	Lamp(s) Watts ②	Total Ultraviolet Output ③	Depth (Inside Duct) ④		Exterior Housing Dimensions		
				Partial Internal	Full Internal	Height	Width ⑤	Depth
ADHO18-2	05-0687 (2)	80.0 Watts	23 Watts	16-3/4"	21-3/16	16-13/16"	8-1/8"	4-7/16"
ADHO24-2	05-0686 (2)	102.0 Watts	34 Watts	22-3/4"	27-3/16	16-13/16"	8-1/8"	4-7/16"
ADHO30-2	05-0685 (2)	130.0 Watts	46 Watts	28-3/4"	33-3/16	16-13/16"	8-1/8"	4-7/16"
ADHO36-2	05-1060-R (2)	174.0 Watts	56 Watts	34-3/4"	39-3/16	16-13/16"	8-1/8"	4-7/16"
ADHO48-2	05-0576 (2)	238.0 Watts	80 Watts	46-3/4"	51-3/16	16-13/16"	8-1/8"	4-7/16"
ADHO64-2	05-0690 (2)	310.0 Watts	108 Watts	62-3/4"	67-3/16	16-13/16"	8-1/8"	4-7/16"
ADHO18-4	05-0687 (4)	160.0 Watts	46 Watts	16-3/4"	21-3/16	16-13/16"	8-1/8"	4-7/16"
ADHO24-4	05-0686 (4)	204.0 Watts	68 Watts	22-3/4"	27-3/16	16-13/16"	8-1/8"	4-7/16"
ADHO30-4	05-0685 (4)	260.0 Watts	92 Watts	28-3/4"	33-3/16	16-13/16"	8-1/8"	4-7/16"
ADHO36-4	05-1060-R (4)	348.0 Watts	112 Watts	34-3/4"	39-3/16	16-13/16"	8-1/8"	4-7/16"
ADHO48-4	05-0576 (4)	476.0 Watts	160 Watts	46-3/4"	51-3/16	16-13/16"	8-1/8"	4-7/16"
ADHO64-4	05-0690 (4)	620.0 Watts	216 Watts	62-3/4"	67-3/16	16-13/16"	8-1/8"	4-7/16"

① Rated average lamp life is 13,000 hours.

② Total lamp watts.

③ Ultraviolet Output at 254 nanometers at 100 hours and 80° F (approximate).

④ See **Figure 3** above for a comparison of Partial Internal Mounting and Full Internal Mounting.

⑤ Including flange.

• 120 Volts 50/60 Hz and 230 Volts 50/60 Hz models are standard. Specify when ordering.

• Available in various voltages. Consult factory with specific power requirements.

• Models with other lamp sizes may be available. Consult factory with specific requirements.

OPTIONAL ACCESSORIES



SENTINEL® Germicidal Ultraviolet Lamp Operation Indicator*

The **SENTINEL®** Remote Lamp Indicator monitors lamp operation of two or four lamp ultraviolet fixtures and is available with a 25, 50, or 100 foot cable.

(Available for **AeroLogic® AD** models at the time of purchase. **SENTINEL®** output connector needs to be installed for easy plug-in and operation. The **AeroLogic® ADHO** models are manufactured with a **SENTINEL®** output connector as a standard feature.)



ArmorLite™ Germicidal Ultraviolet Lamp Safety Shield

Protective coating can be applied to **STER-L-RAY®** Germicidal Ultraviolet Lamps to ensure protection for employees, products, and work environments by eliminating the dangers associated with fragments of broken lamps.

(Lamp on right has **Armorlite™** coating. Available for **STER-L-RAY®** lamps used in **AeroLogic® AD** and **ADHO** models at the time of purchase. The coating is installed at the factory.)



CRYSTAL CLEAR™ Quartz Sleeve

Specially designed quartz sleeve to protect and insulate the germicidal ultraviolet lamp. The quartz sleeve protects the **STER-L-RAY®** Germicidal Ultraviolet Lamps from deposits of dirt and/or dust while insulating it from low air temperatures and the cooling effects of high air velocities in the air duct, ensuring optimum ultraviolet output.

(Standard feature in **AeroLogic® AERO** models, optional for **AeroLogic® AD** and **ADHO** models.)



Promate™ Observation Port/Sight Glass Assembly

A Sight Glass Assembly allows for visual inspection of the lamp(s), without the need to remove the **AeroLogic®** from the duct. Available in 1 and 2 inch diameters. One assembly and mounting hardware is included with each **AeroLogic®** purchased.

(Additional assemblies available for ALL **AeroLogic®** models.)



Zenith™ Germicidal Ultraviolet Detector

The Zenith™ UV-C Detector is a sensitive hand-held, self-contained, battery operated meter that can be used for:

- Monitoring UV-C Germicidal Lamp Intensity & Aging
- Measuring UV-C Germicidal Fixture Leakage

(For use with ALL **AeroLogic®** models.)

* Item must be ordered at same time as **AeroLogic®** Air Duct Model (installed at factory).

SAFETY

Promate™ Safety Glasses



Safety eyewear **MUST** be used as general-purpose safety protection and for additional shielding from germicidal ultraviolet rays.

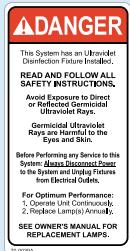
Promate™ Face Shield



Lightweight visor with adjustable headgear provides eye and face protection from germicidal UV rays.

Duct Danger Labels

2" x 4" label to be affixed to an air duct where the **AeroLogic®** is installed. 2 labels are supplied with each **AeroLogic®** purchase.



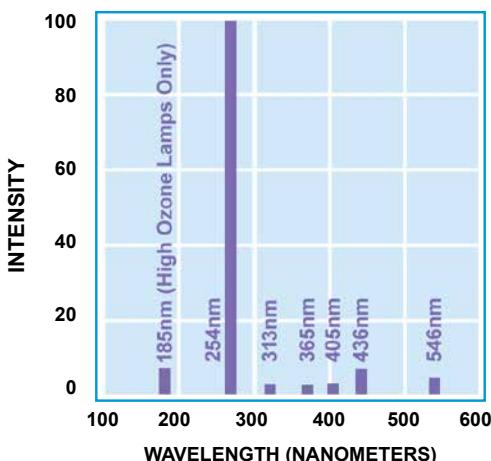
Access Panel Danger Labels

8.5" x 11" label to be affixed to the entrance of any area where **AeroLogic®** units are installed. These labels warn that power to the ultraviolet unit(s) **MUST** be disconnected before entering or performing any service. 1 label is supplied with each **AeroLogic®**.

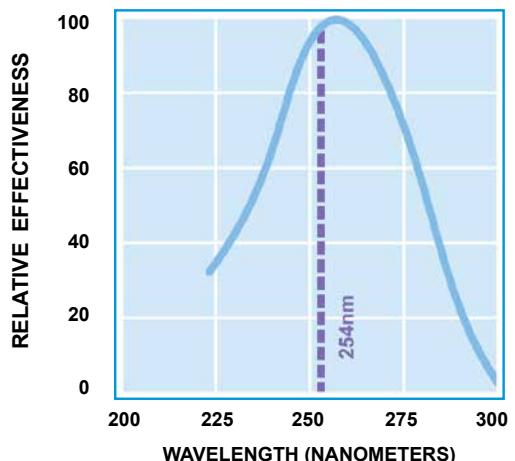


GENUINE STER-L-RAY® GERMICIDAL LAMPS

Relative Spectral Energy Distribution (Typical)



Germicidal Effectiveness As Related to Wavelength



STER-L-RAY® Germicidal Lamps are shortwave, low pressure tubes that produce ultraviolet wavelengths lethal to microorganisms. Approximately 95% of the ultraviolet energy emitted from **STER-L-RAY®** germicidal lamps is at 254 nanometers, the region of germicidal effectiveness most destructive to bacteria, mold, and viruses.

STER-L-RAY® Germicidal Ultraviolet Lamps are instant start lamps that utilize tungsten filaments. Lamp life is governed by the life of the filaments and is affected by the frequency of starting. **STER-L-RAY®** lamps are well suited for a variety of air purification applications, which require high ultraviolet intensity.

STER-L-RAY® High Output (HO) Germicidal UV Lamps are similar in size and shape to conventional germicidal UV lamps but are capable of operating at higher UV output. Atlantic Ultraviolet's **Surelite™** ballasts have been extensively tested with **STER-L-RAY®** High Output (HO) lamps and are strongly recommended to achieve the best performance and longest lamp life.

STER-L-RAY® and the **STER-L-RAY®** logo are trademarks of Atlantic Ultraviolet Corporation.

CAUTION: Exposure 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 faceshield, gloves and protective clothing.

Hg – LAMP CONTAINS MERCURY, manage in accord with disposal laws, see: LampRecycle.org.

GERMICIDAL ULTRAVIOLET DOSAGE

Germicidal lamps provide effective protection against microorganisms. A small cross-section is shown below.

ORGANISM	ALTERNATE NAME	TYPE	DISEASE	DOSE*
<i>Corynebacterium diphtheriae</i>	<i>C. diphtheriae</i>	Bacterium	Diphtheria	6.50
<i>Legionella pneumophila</i>	<i>L. pneumophila</i>	Bacterium	Legionnaire's Disease	12.30
<i>Mycobacterium tuberculosis</i>	<i>M. tuberculosis</i>	Bacterium	Tuberculosis (TB)	10.0
<i>Streptococcus pyogenes</i>	Strep	Bacterium	Strep Throat	.80
<i>Adenovirus</i>		Virus	Common Cold	4.50
<i>Coxsackie A2</i>		Virus	Hand, Foot, and Mouth Disease, Conjunctivitis, Meningitis	6.30
<i>Morbillivirus hominis</i>	Measles virus, MeV	Virus	Measles, rubeola	4.40
<i>Influenza</i>		Virus	Flu	1.20
<i>SARS-CoV-2</i>		Virus	COVID-19	5.0

* Nominal Ultraviolet dosage (mJ/cm²) necessary to inactivate better than 99% of specific microorganism. Visit Ultraviolet.com/microorganisms-inactivated for complete listing.



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ULTRAVIOLET
CORPORATION®



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GERMICIDAL ULTRAVIOLET EQUIPMENT & LAMPS • MANUFACTURERS / ENGINEERS / SALES / SERVICE

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