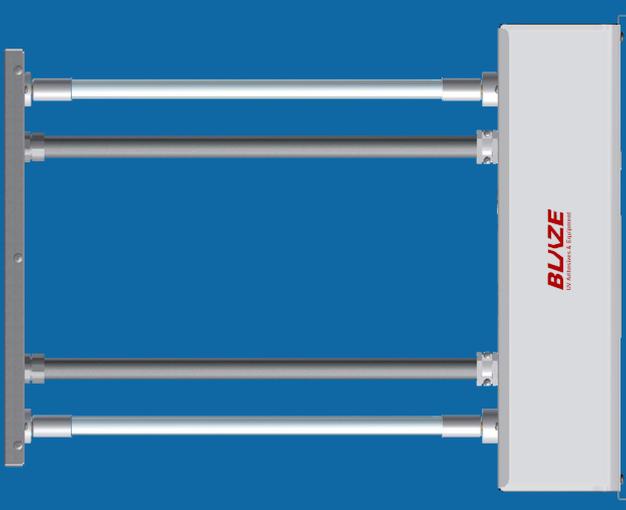
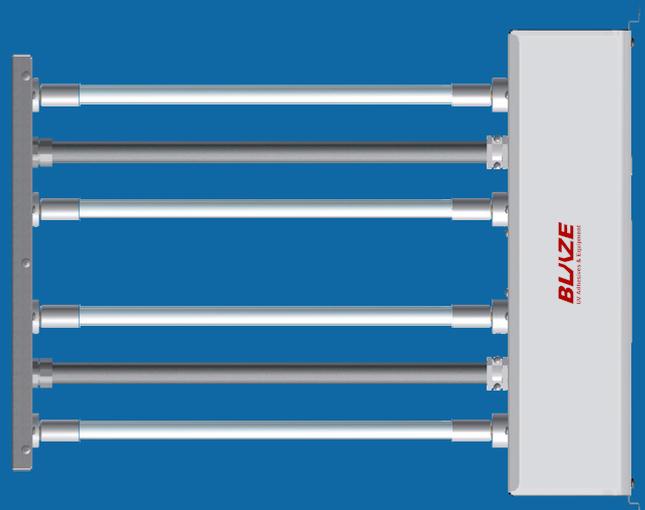


ULTRAVIOLET DUCT GERMICIDAL LAMP

UV-DGL[®]
(Duct Germicidal Lamp)



Model DGL-2



Model DGL-4

BL/ZE
UV Adhesives & Equipment

Efficient

Minimal power is required to operate.

Safe

Low risk of ultraviolet rays over-exposure.

Automatic

Able to run continuously without special monitoring.

Low Maintenance

Only requires an annual lamp change and scheduled cleaning.

Rapid

Destroys harmful germs and bacteria, disinfecting the air in seconds.

Heavy-duty

Durable and lasting stainless steel and aluminium build.

Versatile

Various models available to suit different duct sizes

Effective

Minimizes the risk of cross contamination and exposure of occupants to contagious biological airborne contaminants.



Model DGL-4

UV-DGL (Ultraviolet Duct Germicidal Lamp) is mainly installed in HVAC (heating, ventilating and air conditioning) systems. Air that flows through the installed UV-DGL is subjected to the ultraviolet rays coming from the germicidal lamp. These rays inactivate harmful bacteria and viruses, disinfecting the air in seconds.

The UV-DGL has been designed to provide sufficient ultraviolet germicidal dosage for both air and surface. The recommendation dosage will depend on the size of the air duct, air speed and temperature.

Our application specialists would be more than happy to help calculate and recommend the most suitable model for your application.

SPECIAL FEATURES

UV-DGL[®]
(Duct Germicidal Lamp)

Model DGL-2/DGL-4

Generally used in the HVAC system of commercial buildings, the DGL-2 and DGL-4 helps to minimize and/or eliminate the growth of bacteria, mold and viruses, and to help limit the transmission of airborne diseases such as common cold, influenza and COVID-19.

In order for us to recommend a suitable UV-DGL model for your air duct, the below information is required:

- Duct size
- Length of duct where the UV-DGL will be installed
- Air speed (cubic feet per minute)
- Air temperature

UV-DGL Lamp

High output germicidal lamps produce more UV watts than typical UV-C bulbs.

Heavy-duty Assembly

Built in aluminium and Type 304 stainless steel for durability and extraordinary strength.

UV-DGL Ballasts

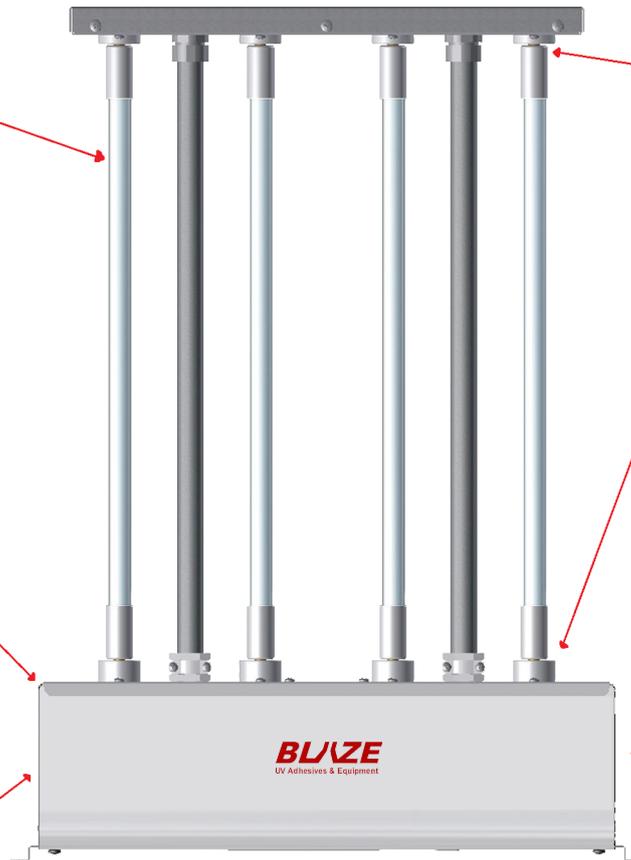
Specially designed to operate UV lamps, the lightweight and long-lasting Blaze UV-DGL ballasts helps to save energy while producing a high UV output as compared to conventional ballasts.

Robust Lampholder

Structure includes a fixed and spring-loaded holder that secures a single-pin lamp. The spring-loaded holder attributes to the convenience of replacing the lamp in a matter of seconds.

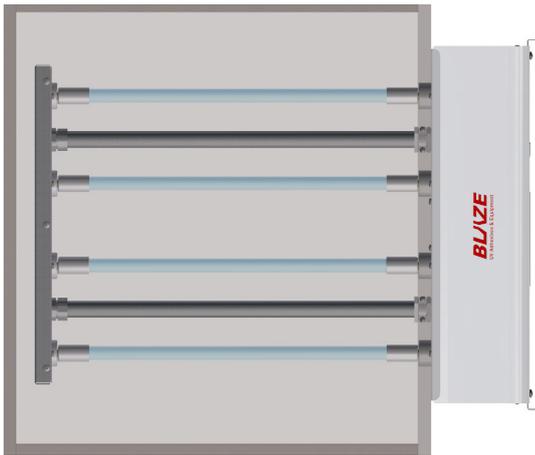
Operation Indicator

Indicates the operation status of each germicidal lamp.

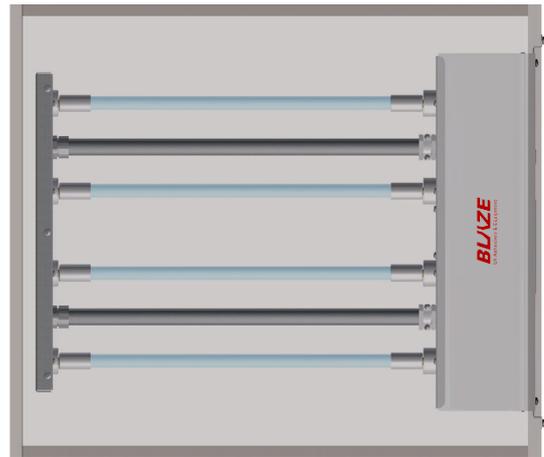


Model DGL-4

INSTALLATION



Half Internal Mount - Lamps installed inside air duct



Full Internal Mount - Lamps and ballast installed inside air duct

SPECIFICATIONS - MODEL DGL-2/DGL-4

Model	Lamp*	Lamp Wattage**	UV Output***	Depth (Inside Air Duct)		Housing Dimensions		
				Half Internal	Full Internal	Height	Width	Depth
DGL-2-23	7860-50 (2)	81W	23W	42.5cm	53.8cm	42.7cm	20.63cm	11.3cm
DGL-2-34	6860-50 (2)	103W	34W	57.8cm	69.1cm	42.7cm	20.63cm	11.3cm
DGL-2-46	5860-50 (2)	131W	46W	73cm	84.3cm	42.7cm	20.63cm	11.3cm
DGL-2-56	0601-50 (2)	175W	56W	88.3cm	99.6cm	42.7cm	20.63cm	11.3cm
DGL-2-80	6750-50 (2)	239W	80W	118.8cm	130cm	42.7cm	20.63cm	11.3cm
DGL-2-108	0960-50 (2)	311W	108W	159.3cm	170.7cm	42.7cm	20.63cm	11.3cm
DGL-4-46	7860-50 (4)	161W	46W	42.5cm	53.8cm	42.7cm	20.63cm	11.3cm
DGL-4-68	6860-50 (4)	205W	68W	57.8cm	69.1cm	42.7cm	20.63cm	11.3cm
DGL-4-92	5860-50 (4)	261W	92W	73cm	84.3cm	42.7cm	20.63cm	11.3cm
DGL-4-112	0601-50 (4)	349W	112W	88.3cm	99.6cm	42.7cm	20.63cm	11.3cm
DGL-4-160	6750-50 (4)	477W	160W	118.8cm	130cm	42.7cm	20.63cm	11.3cm
DGL-4-216	0960-50 (4)	621W	216W	159.3cm	170.7cm	42.7cm	20.63cm	11.3cm

*Rate lamp lifespan is 13,000 hours.

**Total lamp wattage

***UV output at wavelength 254nm at 100 hours and 26 degrees C (estimated)

OPTIONAL ACCESSORIES



Blaze UV-C Radiometer

Lightweight, hand-held, UV radiometer;
Used for measuring the intensity of UV lamps to ensure UV-C produced is within safe levels.



UV-DGL Lamp Safety Shield

Extra protection layer (refer to lamp on the right) applied to Blaze UV-DGL lamps ensures safety for field operators, occupants, products and the environment by eliminating all possible hazards from debris of broken lamps.



UV-DGL Anti-UV Safety Glass

Tinted, UV-blocking safety glasses;
Used for general safety protection against harmful UV rays to the eyes.



UV-DGL Face Shield

Adjustable fit visor provides protection to the face and eyes.

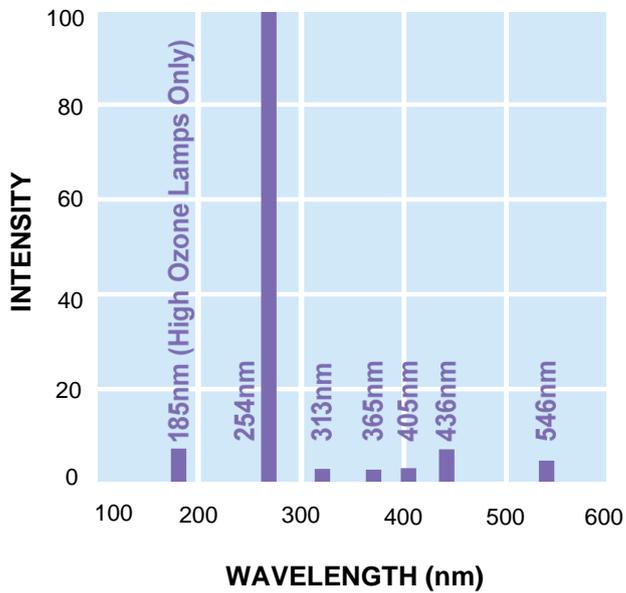


UV-DGL Lamp Monitoring Device

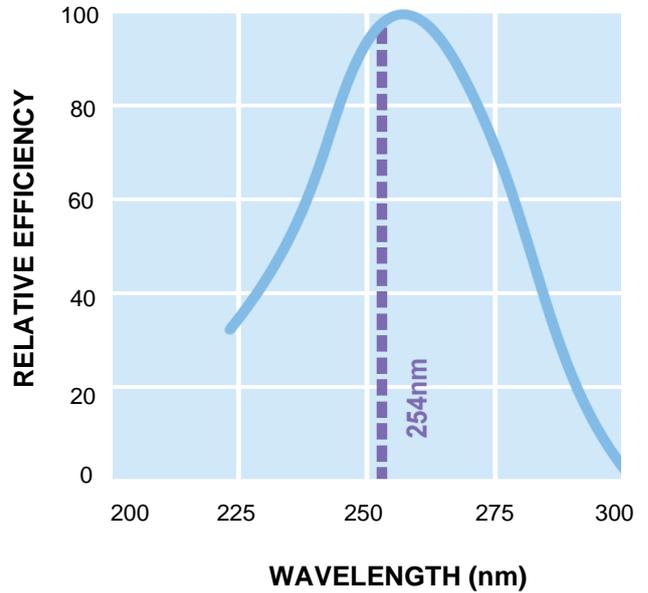
Monitors lamp operation. To be connected to the output connector of the ballast housing.
Comes with 50 and 100 foot long cable.

OPERATING CHARACTERISTICS

Typical Intensity VS Wavelength



Germicidal Efficiency VS Wavelength



UV DOSAGE

UV sterilization lamps are effective against bacteria, viruses, mold, etc. Shown below is a short list and the required dosage* to destroy more than 99% of the particular organism.

ORGANISM	TYPE	DISEASE	DOSE
Mycobacterium Tuberculosis	Bacteria	Tuberculosis (TB)	10,000
Influenza	Virus	Flu	6,600
Leptospira Interrogans	Bacteria	Jaundice	6,000
Hepatitis	Virus	Hepatitis	8,000
Escherichia coli	Virus	Bacteriophage	6,600
Eberthella Typhosa	Bacteria	Typhoid Fever	4,100
Coxsackie A	Virus	Hand, Food and Mouth Disease (HFMD)	6,900
Rotavirus	Virus	Gastroenteritis	26,000

*Ultraviolet light dose required for 99.9% destruction of various micro-organisms in $\mu\text{WSec}/\text{cm}^2$ at wavelength 254nm.