

## Ducted UVC Emitter

Ultraviolet-C (UVC) Irradiation has excellent germicidal capabilities against bacteria, viruses, as well as airborne pathogens. It can be added into various ventilation systems to improve air quality.

At shorter wavelengths, it can be used in kitchen exhaust systems to complement an array of air filtration equipment to treat oil & grease particles and cooking odour.

BC Air's Ducted UVC Emitter is designed for simple and quick installation along ventilation ductworks. It comes with prestigious certification from Conformité Européenne (CE).

### Specification

Model: GFS 36W (185 or 254nm)

Airflow: 2,000CFM / 3,400CMH

Lamp Lifespan: 9,000h (est.)

Ballast Lifespan: 30,000h (est.)

Voltage: 220-240V

Wattage: 72W (2 x 36W Bulb)

Lamp: U Type

Lamp Length: 297mm (into the ductwork)

UV Intensities: 228 mW/cm<sup>2</sup> @ 250mm  
57 mW/cm<sup>2</sup> @ 1,000mm

CE Directive & Annex:  
2014/35/EU Low Voltage Directive  
2014/30/EU Electromagnetic  
Compatibility Directive

### Distributed By:

#### **BC Air Pte Ltd**

5 Kaki Bukit Road 2 #01-08, City Warehouse,  
Singapore 417839

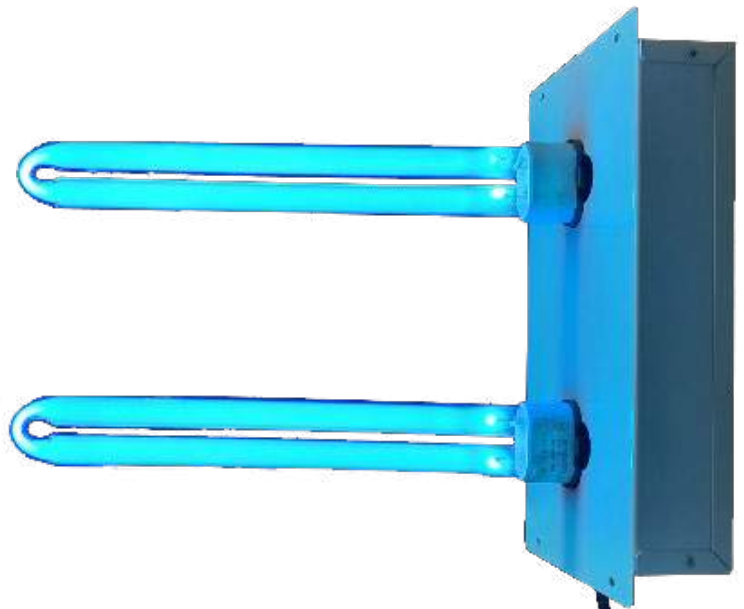
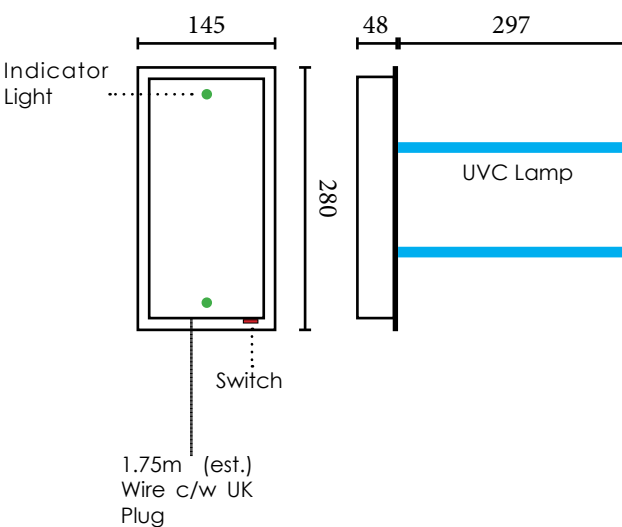
Tel: +65 6741 1697 / +65 8759 8002

E-Mail: info@bcair.com.sg

Website: www.bcair.co

### Front View

### Side View



**PhotoPlasma**



# PhotoPlasma Application



PhotoPlasma is generated by airborne molecules (e.g. oxygen and water vapour) under the exposure of a UV spectrum produced by the UVC lamps. PhotoPlasma includes reactive oxygen species, free radicals, electrons etc., which actively capture various air contaminants and rapidly destroy their structures by a chain of reactions. Contaminants in the airflow are decomposed and converted into harmless end-products like carbon dioxide and water.

PhotoPlasma penetrates the microbe's cell nucleus and breaks the DNA bond to prevent replication - thus rendering the cell harmless.

For the 185nm model, the UV spectrum covers that of the PhotoPlasma range. Thus in **ducted applications** (lamps mounted into the ductworks or hoods) for **Kitchen Exhaust Systems**, on top of breaking down grease particles and neutralising odour molecules, it can also decompose Volatile Organic Compounds (VOCs), Microorganisms (e.g. Bacteria, Viruses, Fungi), and harmful gases (e.g. Ammonia, Hydrogen Sulphide). The produced PhotoPlasma is carried with the airflow in the ductworks to continuously neutralise the air pollutants and contaminants prior to discharge.

