

## DUV Series

### Duct Mounted Application



The **DUV** series of **ULTRAVIOLET GERMICIDAL IRRADIATION (UVGI) ozone free** devices provide a quick and simple option for facility managers and building owners/managers to disinfect air and surfaces that are inaccessible from inside the air handler.

The High Output Lamps provide 360 degree of high UVC intensity and can be easily mounted to the exterior of supply, return or exhaust ducts or plenums. It is ideal for disinfecting airstreams in HVAC equipment and are widely used in hospitals and commercial buildings.

DUV series is suitable for new systems or as retrofits, and can be easily installed in most commercial, industrial, manufacturing and healthcare applications.

#### SPECIFICATIONS:

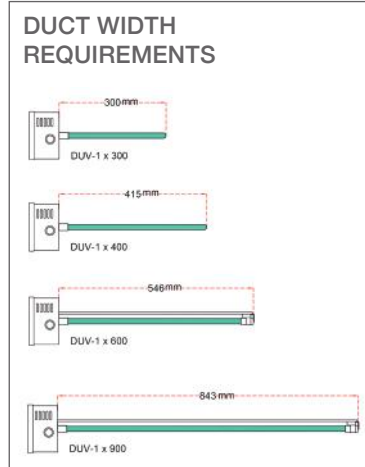
**The Ballast Housing Unit** shall be factory assembled and tested. It shall be assembled with the Ballast, on/off switch, lamp operation's Led and silicon black lamp gasket. It shall have side openings for wiring up multiple units. Unit shall have a ground terminal.

**The Housing** shall be constructed of 1mm mild steel and powder coated.

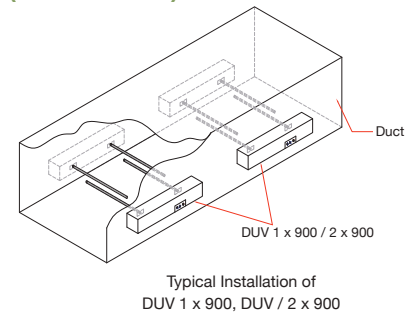
**The Power source** shall be electronic instant start type UL Listed, with a power factor greater than 0.95 and a power conversion greater than 75%. It shall include Rf and Emi suppression.

**The UV lamps** shall be very High Output Type in 846mm/33" T5 single ended, U shaped 300mm or 400mm. Lamps shall produce UVC at 254nm. It shall not produce ozone or other contaminants.

**The unit** shall be available in 230Vac 50/60 Hz, single phase.



## Duct Mounted Application (DUV TYPE)



#### BENEFITS:

- Destroys bacteria, mold, fungi and virus etc
- Significantly reduces transmissibility of viruses
- No ozone output, safe for occupants
- Improves indoor air quality
- Reduces absenteeism in workforce
- Keeps air conditioning systems efficient, longer lasting and lower maintenance costs
- Low investment

#### FEATURES:

- Quick and simple installation
- Easy to retrofit to existing plenums/ducts
- 360 degree UV irradiation
- Ballasts outside of airstream
- High Output lamps provide high irradiance

#### FIXTURE'S DIMENSIONS:

DUV 1: L :265mm x W:135mm x D:85mm

DUV 2: L :486mm x W:135mm x D:85mm

Material: Powder Coated Mild Steel

Model	Voltage	Lamp Power consumption	Lamp Length	Lamp Type	*Est. Air Handling Capacity (CMH) at 15J/m <sup>2</sup>	Lamp Life (Hrs)
DUV 1x300	230VAC 0.26A	60 watts	300mm	U Type	2300	12000
DUV 1x400	230VAC 0.27A	75 watts	415mm	U Type	2900	12000
DUV 2x300	230VAC 0.6A	120 watts (60x2)	300mm	U Type x 2	4500	12000
DUV 2x400	230VAC 0.62A	150 watts (75x2)	415mm	U Type x 2	5600	12000
DUV 1x600	230VAC 0.26A	55 watts	546mm	Straight T5	2430	12000
DUV 1x900	230VAC 0.3A	80 watts	846mm	Straight T5	3645	12000
DUV 2x600	230VAC 0.6A	110 watts (55x2)	546mm	Straight T5 x 2	4860	12000
DUV 2x900	230VAC 0.65A	160 watts (80x2)	846mm	Straight T5 x 2	7290	12000

\*Not for outdoor use, unless under suitable cover from rain

1. Dosage is estimated, based on 1 m, straight duct of GI material, air conditioning FCU supply duct @2.5m/sec velocity.
2. Duct size affects air handling capacity and dosage.
3. UVC lamp should cover at least 90% of the entire WIDTH of the duct for maximum effect.
4. Where required, insert more DUV units on the opposite side of the duct to cover the entire WIDTH of the duct.
5. Encapsulated Lamps are available for DUV 1x600, DUV 1x900, DUV 2x600 and DUV 2x900 as an option.



### Airverclean Pte Ltd

61 Kaki Bukit Ave 1, #03-19 Shun Li Industrial Park, Singapore 417943

Tel • +65 6741 5800  
Fax • +65 6741 3935

Email • sales@airverclean.com  
www.airverclean.com