

## Duct Cleaners - DC UV Air Purifiers Specifications



Tested and proven performers DC In-Duct UV Air Purifiers consist of four or two high output ultraviolet lamps, ballast and accessory assembly, providing architects and engineers with a complete duct cleaner to meet all requirements. The DC UV systems are manufactured in different series for commercial and industrial installations. All DC UV air cleaners include voltage specific units for 120/277V, 60Hz or 220V, 50Hz. Individually or in combination with like units and/or Coil Clean (CC) UV disinfection systems, the DC in-duct UV air cleaners adapt to HVAC and exhaust systems.

### 4-Lamp DC Model

The DC UV air purifiers can be installed during or after construction by cutting a small hole in the duct wall for UV lamp insertion and fastening the transformer section to the exterior wall surface. The UV air purifiers mounting surface features an airtight gasket. A simple support bracket for the UV lamps is available for large plenum chambers.

DC In-Duct UV Air Purifiers play an important part in preventing the spread of indoor airborne infections. Tests reveal that the disinfected indoor air can have a microbial count lower than that of outdoor air. UV Duct Cleaners have proved necessary in food plants, pharmaceutical production, hospitals and laboratories.

#### In-Duct UV Applications:

- DC45 Series - Large Duct Heavy Commercial, Industrial Installations
- DC33 Series - Large Duct Commercial, Industrial Installations
- DC24 Series - Medium Duct Commercial, Light Industrial Installations
- DC16 Series - Medium Duct Light Commercial Installations
- DC14 Series – Small/Medium Duct Light Commercial Installations



### 2-Lamp DC Model

The High Output In-Duct DC UV air cleaners are designed to attach to air ducts and the UV lamps inserted in the air ducts. DC air cleaners are constructed of high grade stainless steel, utilizing two or four high output germicidal UV lamps. The DC UV fixtures are available in 120/230/277V, 50/60Hz. Please, specify voltage when ordering. All DC air cleaners use SBL high output germicidal UV lamps effective for 17,000 hours.

| Duct Cleaners - DC In-Duct UV Models | Duct Cleaners - DC - Description                            | UVC Intensity<br>* $\mu\text{W}/\text{cm}^2$<br>@1m |
|--------------------------------------|---|---|
|                                      | <b>DC-14 For 14" Air Duct Insertion</b>                     |   |
| <b>DC14-2-120/230/277</b>            | DC UV air cleaner with two 14" high output UV lamps SBL410  | 198   |
| <b>DC14-4-120/230/277</b>            | DC UV air cleaner with four 14" high output UV lamps SBL410 | 396   |

|                           |   |       |
|---------------------------|---|-------|
| SBL410                    | 14" high output replacement UV lamp. Lamp life 17,000 hours.                  | 99    |
|                           | <b>DC-16 For 16" Air Duct Insertion</b>                                       |       |
| <b>DC16-2-120/230/277</b> | DC UV air cleaner with two 16" high output UV lamps SBL430                    | 234   |
| <b>DC16-4-120/230/277</b> | DC UV air cleaner with four 16" high output UV lamps SBL430                   | 468   |
| SBL430                    | 16" high output replacement UV lamp. Lamp life 17,000 hours.                  | 117   |
|                           | <b>DC-24 For 24" Air Duct Insertion</b>                                       |       |
| <b>DC24-2-120/230/277</b> | DC UV air cleaner with two 24" high output UV lamps SBL415                    | 378   |
| <b>DC24-4-120/230/277</b> | DC UV air cleaner with four 24" high output UV lamps SBL415                   | 756   |
| SBL415                    | 24" high output replacement UV lamp. Lamp life 17,000 hours.                  | 189   |
|                           | <b>DC-33 For 33" Air Duct Insertion</b>                                       |       |
| <b>DC33-2-120/230/277</b> | DC UV air cleaner with two 33" high output UV lamps SBL420                    | 544   |
| <b>DC33-4-120/230/277</b> | DC UV air cleaner with four 33" high output UV lamps SBL420                   | 1,088 |
| SBL420                    | 33" high output replacement UV lamp. Lamp life 17,000 hours.                  | 272   |
|                           | <b>DC-45 For 45" Air Duct Insertion</b>                                       |       |
| <b>DC45-2-120/230/277</b> | DC UV air cleaner with two 45" high output UV lamps SBL445                    | 760   |
| <b>DC45-4-120/230/277</b> | DC UV air cleaner with four 45" high output UV lamps SBL445                   | 1,520 |
| SBL445                    | 45" high output replacement UV lamp. Lamp life 17,000 hours.                  | 380   |
|                           | <b>UV Lamp Operation Indicators</b>   |       |
| TBG070                    | Tube Guard indicator - UV lamp electrically operating - per ballast 120V 60Hz |       |
| TBG070 220                | Tube Guard indicator - UV lamp electrically operating - per ballast 220V 50Hz |       |

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|        | <b>High Output Electronic Ballasts</b>                         |  |
| TXG270 | 120V Ballast for 2 SBL405,430,415 or 1 SBL420,445 lamps        |  |
| TXG275 | 230V Ballast for 2 SBL405,430,415 or 1 SBL420,445 lamps        |  |
| TXG280 | 277V Ballast for 2 SBL405,430,415 or 1 SBL420,445 lamps        |  |
|        | * Specified UV intensity measured at 45° F at 400FPM air flow. |  |

### Custom Grid UV Systems



Custom-Designed Grid Ultraviolet Air Purifiers can be fabricated to suit any special requirement. Our engineers will be glad to cooperate in their development. You can request design and fabrication of any ultraviolet air cleaner or rack UV system to your specifications.

Unlimited modular combinations are available in semi-custom designs.

#### Optional Ultraviolet Lamp Monitoring:

The tube guards electrically monitor each germicidal UV lamp's output. A remote panel alerts personnel to early lamp failure. Each UV lamp requires one tube guard.