

Specification Sheet



Model
UVD1
In-Duct UVC Air Sanitizer



Specifications	
Dimensions	6 1/2" W x 11 5/8" H x 3 1/8" D
Shipping weight	2.40 lbs (1.09 kg)
AC voltage	24 VAC, 50/60 Hz
Power	17 Watts
Lamps included	UVD1LA
Cable	6 ft wire for 24 VAC connection
Startup & safety	Always ON when plugged in. Limit switch that turns the unit off when dismounted from the frame.
Installation	In the return section (recommended), keep out of range of filters or plastic components.
Display	Display LED indicating status change and countdown to lamp change
Type of lamp	Quartz tube 3/4" (15mm) T5-4 pins
Unit	Aluminum/powder coating paint
Lamp length	6.5"
UVC dosage	0.88 mJ/cm2 (avg) in a 24" x 10" duct of a 2 ton furnace (800 CFM)
Warranty	Ballast: 5 years; Lamp: 2 years; Electronic: 5 years

Features

- **Continuous protection** - Kills over 99.9% of viruses, bacteria, and mold in as little as 2 hours*
- **Backed by science** - Proven performance based on third party testing and validation to ASHRAE 185.1 methodology for UV lamps
- **2-year lamp** - Unique 'J' lamp shape is installed parallel to the airflow deactivating more airborne contaminants
- **Convenient installation** - Complete in less than 30 minutes
- **Intensified UVC light** - Innovative aluminum reflector plate increases UV light output for better air treatment
- **Compact design** - Installs in return or supply duct with minimal straight duct needed. Return duct installation is preferred.
- **Certified safe** - Certified OZONE FREE to UL2998 Standard, certified by the California Air Resources Board (CARB), and meets the rigorous standards of ASHRAE 241

Principle of Operation

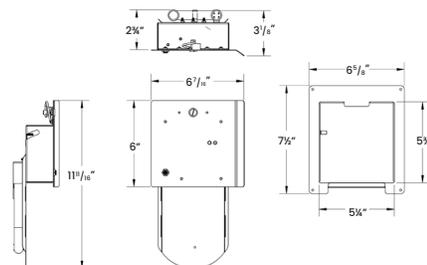
Installed into the return or supply plenum of a residential HVAC system, the AprilAire lamp design maximizes dwell (contact) time between the air and UVC energy, rapidly purifying the air within the home. For information or recommendations on how to size your specific application, please call AprilAire at 800.334.6011.

Application

Foul air is exposed to the UVC 'J' lamp of the UVD1 that is positioned parallel to the airflow, thus maximizing exposure time to UV light. The reflective mirror surface bounces additional UV energy into the plenum. The UV lamp helps reduce the biological contaminants. Finally, the treated air circulates through the home. The unit automatically turns on when the duct frame's safety pin engages the limit switch.

Box Contents

- UVD1 unit
- Reflector
- Duct mount
- UV lamp
- 6-foot 24 VAC power cord
- Basic installation kit includes:
 - Cotton gloves
 - Sheet metal screws (4)
 - 6-32 nuts (3)
- Optional accessory (not included) - Plug in Transformer 40VA 24 VAC Accessory, Model #8029

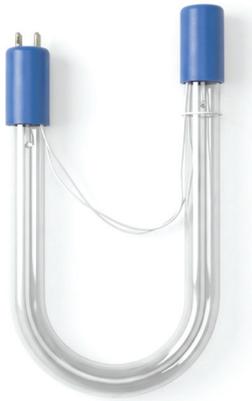


*Third party tested using ASHRAE 185.1 methodology against MS-2 (virus), Staphylococcus Aureus (bacteria), Aspergillus Niger (mold). Hours calculation based upon 4 air changes per hour.



UVGI Placement

- Preferred installation is in the return duct, with the supply duct as an option
- For optimal performance, install the unit on the short side of the rectangular duct whenever possible
- Installation should be in the middle of the duct wall, as offsetting to either side will reduce performance
- Do not install directly into flexible duct. Suitable for use with metal duct or duct board. Suitable for some flexible duct applications, provided it is installed at least 6 feet away.
- Install the unit at least 24 inches away from filters and plastic components (humidifier, air cleaner, etc.). Exposure to direct UVC light may cause these materials to degrade over time.
- Do not install within line of sight of the HVAC filter



UVDILA Replacement Lamp

To ensure proper performance, the UVDILA UVC lamp should be replaced every two years.

Lamps	
Type	Quartz tube 3/8" (15mm) T5-4 pins
Number of lamps	1
Lamp type	'J' lamp
Lamp length	6.5"
UVC dosage	0.88 mJ/cm ² (avg) in a 24" x 10" duct of a 2 ton furnace (800 CFM)