

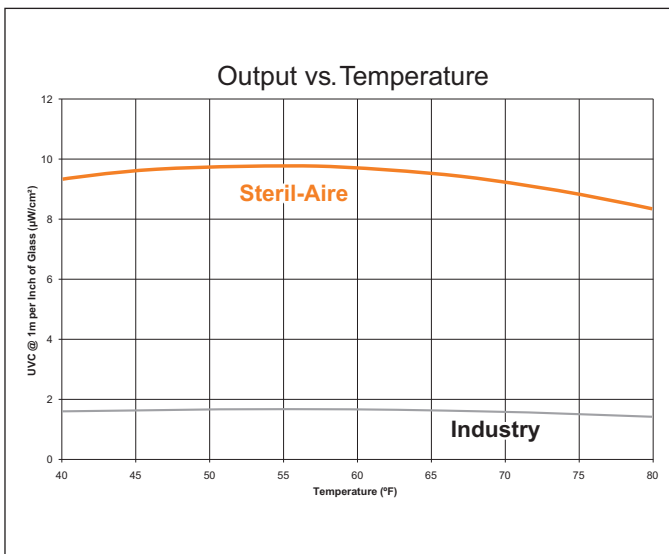
# STERIL-AIRE®

UVC for HVAC®

## DE 422 Panel UVC Emitters™

Ceiling/Wall Mountable Panel  
Very High Output Germicidal UVC  
System for Surface Decontamination

Steril-Aire's DE 422 Panel is designed to provide rapid and effective on-site biological decontamination and sterilization within surgical suites and patient rooms utilizing high powered UVC energy. It can be installed in either a ceiling or a wall. Steril-Aire's UVC Panel attacks pathogens, such as bacteria, viruses, and mold, on surfaces and in the air. Its multi-patented UVC Emitters provide the best and longest-lasting UVC performance available. As shown in the comparison graph (*below*), it has been independently tested to deliver up to 6 times the output of other ultraviolet devices.



Steril-Aire's UVC Emitters have a 12-month service life – and even after a full year, it has more than 3 times greater output than competitive devices deliver on Day 1! Competitive UVC lights must be changed every 3-4 months because they quickly lose the output or “killing power” needed to maintain microbial control. Steril-Aire's UVC Emitters maintain a high UVC intensity over its service life, ensuring the germicidal performance you need.



### Applications

- Surgical Suites
- ICUs, Emergency & Patient Rooms
- Ambulances
- Research/Lab Areas
- Cleanrooms
- Food Production, Packaging & Storage Rooms
- Bio-Pharmaceutical Production Areas
- Contaminated Public Areas
- Public Restrooms
- Buses & Trains
- Veterinary Clinics
- Cruise Ships

### Benefits

- Mounts flush with ceiling or into a wall.
- Delivers 99.9+% surface microbial “kill” rates.
- Available in a sleeved Emitter configuration for shatter-resistant and moisture-resistant protection
- Energy efficient – uses approximately the same energy as a 200-watt light bulb.
- Produces no ozone or other secondary contaminants.
- Long service life – typically 9000 hours of usage between changeouts.

### Safety

- DE 422 Panel emits UVC energy which is harmful to skin and eyes.
- Operate DE 422 Panel only when room is unoccupied.
- To avoid eye and skin UVC exposure take the following precautions: install interlock door safety switches and motion sensors to inactivate the DE 422 Panel when room is occupied.

## DE 422 Panel Specifications

**DE 422 Panel** shall be factory assembled and tested. It shall consist of a reflector, two very high output UVC DE 421 VO fixtures, and two galvanized steel mounting channels.

**The reflector** shall be constructed of specular aluminum equipped with two .875" (22 mm) electrical conduit openings on one end to facilitate wiring. Reflector shall require a 42.3" x 8.1" x 3" (108 cm x 21 cm x 8 cm) ceiling cutout for flush-mounted installation.

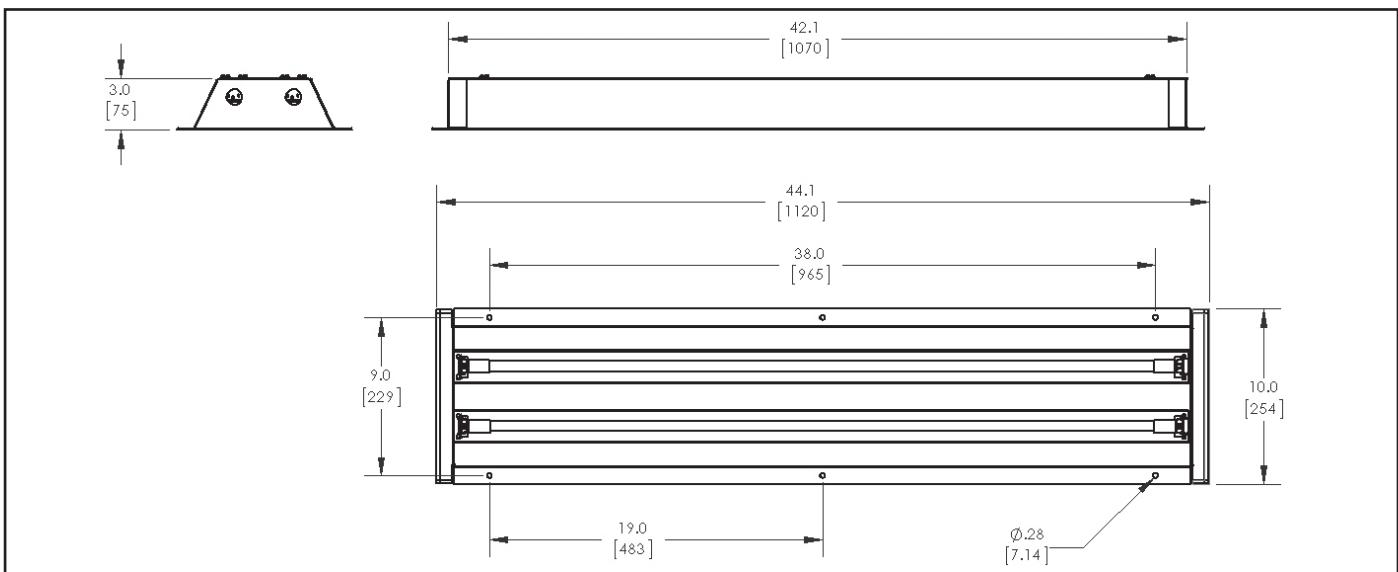
**The DE fixtures** shall be constructed of 304 stainless steel with a heavy gauge, specular finished aluminum alloy reflector with 85% reflectance at 254 nm wavelength.

**The power supplies** shall be Class P2 with a power factor greater than 0.98 and a power conversion of greater than 90%. The power supply design shall include RF and EMI suppression. The power supply shall be designed to maximize photon production, irradiance and reliability at 0-140 °F (17-60 °C) and 100% RH. The power supply shall be available in 110-277 V, 50/60 Hz, single phase.

**The Emitter sockets** are medium bi-pin, double click safety, twist lock type. They shall be constructed of UVC-resistant polycarbonate.

**The Emitter** shall be a very high output, hot cathode, T5 diameter, medium bi-pin type that produces germicidal UVC of 253.7 nm. The Emitter shall operate in air temperatures of 35-140 °F (2-60 °C) and shall produce no ozone or other secondary contaminants. Sleeved, shatter-resistant Emitters shall be available, ensuring the highest level of protection for moisture-proof applications.

**Independent Testing:** The unit shall be tested by an independent test laboratory and shall be verified to provide output per one inch arc length of not less than 9  $\mu\text{W}/\text{cm}^2$  at 1 meter in a 400 fpm (120 m/min) airstream of 50 °F (10 °C). Unit shall comply with ANSI/UL Standards 1598, 1995 and CSA and CE standards. The manufacturer shall be an ISO 9001:2008 certified facility.



This product may be covered by one or more of the following patents, others pending: 5,334,347 / 5,817,276 / 5,866,076 / 6,245,293 / 6,267,924 / 6,280,686 / 6,313,470 / 6,372,186 / 6,423,882 / 6,500,267 / 6,589,476 / 6,627,000 / 6,997,578 / 7,140,749 / 7,282,728 / 7,459,694.

## Ordering Information

Part No.	Description	Wattage
10001360	DE 422 Panel For Ceiling or Wall Mount	218
10001361	DE 422 Panel For Ceiling or Wall Mount Sleeved	218
<b>Replacement Emitters</b>		
20000500	GTD 40 VO - Double Ended Emitter	109
20000501	GTD 40 VO - Double Ended Sleeved Emitter	109

# STERIL-AIRE®

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