

STERIL-AIRE®

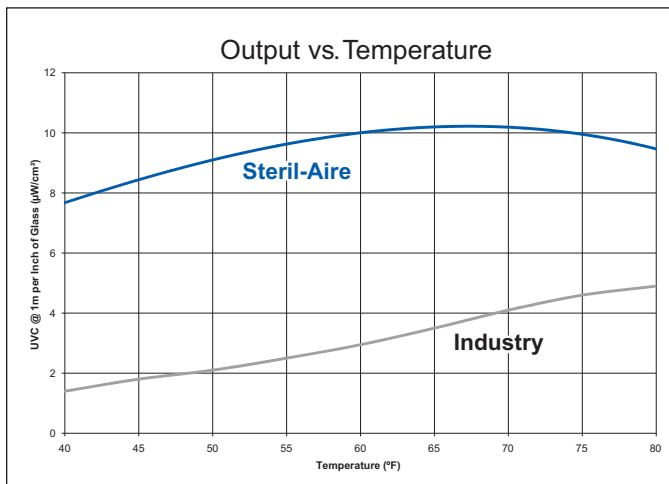
UVC for HVAC®

UVC Kit for Air Handlers

Germicidal, Very High Output UVC
for Indoor Air Handlers, Fan Coil Units,
Unit Ventilator Systems



Mounting Options: See Figure 1



Steril-Aire's UVC Kit for Air Handlers includes a multi-patented UVC Emitter™ that provides the best and longest-lasting UVC performance available. As shown in the comparison graph (above), it has been independently tested to deliver up to 6 times the output of other ultraviolet devices under HVAC conditions (50° F @ 400 fpm air velocity).

Competitive UVC lamps must be changed every 3-4 months because they quickly lose the output or "killing power" needed to maintain biofilm control. The Steril-Aire UVC Emitter, by contrast, has a 12-month service life - and even after a full year, it has greater output than competitive devices deliver on Day 1! As a result, only Steril-Aire can ensure the germicidal performance you need.

Applications

The Steril-Aire UVC Kit for Air Handlers includes proven technology designed for indoor air handlers (coils up to 84" with dual access; excludes walk-in air handlers), fan coil units and unit ventilator systems. Fan coil systems are ideal for multi-room buildings found in residential, commercial and industrial applications. Unit ventilator systems are found mainly in classrooms, hotels, apartments and condominiums. Configurations include horizontal or vertical; floor, wall, ceiling, or suspended; surface, semi-recessed, recessed, or concealed; vertical stack concealed units.

The Steril-Aire UVC Kit delivers energy savings on retrofit units, continuation of factory design efficiency on new units and improved IAQ on all applications. Emitters shall be installed perpendicular to the cooling coil, producing high output UVC energy to eliminate biofilm and reducing or eliminating airborne microbial contaminants. The slim power supply offers installation flexibility in tight housing spaces.

The UVC Kit for Air Handlers includes a universal 110-277V power supply with wires and connectors and a mounting system. The Kit offers installation flexibility with six mounting options. The mounting options include: Short Hooks (2), Spring Clips Mounting Kit, Flat Plate Lamp Holder (for metal housing), Flat Plate Lamp Holder (for plastic housing), Insert Lamp Holder, 12" U Bracket and 16" U Bracket. The UVC Kit for Air Handlers is available in six Emitter lengths: 12", 16", 24", 30", 36", 42".

Benefits

- Reduces HVAC energy costs by restoring heat transfer and net cooling capacity.
- Uses germicidal UVC irradiation proven as an effective inactivation method for mold, bacteria and viruses.
- Eliminates time-consuming, costly cleaning programs and the use of harmful chemicals and disinfectants by continuously cleaning coils and drain pans.
- Delivers an average of up to 6 times the output of competitive UVC products at HVAC operating temperatures, for longer life and more reliable germicidal control.
- Offers lowest life-cycle cost of any UVC product. Return on investment is often less than one year.
- Produces no ozone or other secondary contaminants.
- Installs quickly, easily and safely.
- The widest range of mounting options in the industry.
- Improves Indoor Air Quality (IAQ).

Specifications

The UVC Kit for Air Handlers shall be factory assembled and tested. The Kit shall consist of a power supply and a mounting solution. The single-ended Emitter shall be ordered separately.

The power supply shall be a class P, electronic rapid start type with a power factor of >0.98. It shall be suitable for single-phase input power 110-277V, 50/60 Hertz. The design shall include RF and EMI suppression. The power supply input wire length shall be 6.5". The Emitter to power supply sleeved wire length shall be 32".

The socket shall be a Circline® 4 pin type to facilitate connection to the Emitter for ease of installation and service.

The Emitter shall be a very high output, hot cathode, T5 diameter, Circline® cell-base type that produces a germicidal UVC output of 253.7 nm. The single-ended UVC Emitter shall be designed to maximize photon production, irradiance and reliability in cold air

streams of 35-140 °F, 99% RH and up to 2000 fpm. It shall produce no ozone or other secondary contaminants. Optional Emitter extension cords in 11" and 32" lengths (with connectors) shall be available.

The Mounting Solution: Steril-Aire provides a variety of mounting brackets for UVC Emitters. The UVC Kit for Air Handlers includes one of the following mounting options: Short Hooks, Spring Clips, Flat Plate Lamp Holder (for metal), Flat Plate Lamp Holder (for plastic), Insert Lamp Holder, 12" or 16" U Bracket – each packaged with mounting screws (as required) to facilitate installation in most major brands.

The power supply shall comply with ANSI/UL Standards 153, 1598 and 1995 and CSA 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

UVC Kit for Air Handlers (Kit includes power supply, wires and connectors and a mounting solution. Order Emitter separately)

Model	Part No.	Description	Emitter Length	Electrical
GTS VO Kit	10000166-1	UVC Kit for Air Handlers; Spring Clip Mounting Kit	N/A	110-277 V
	10000166-2	UVC Kit for Air Handlers; Short Hook (2)		
	10000166-3	UVC Kit for Air Handlers; Flat Plate (for metal)		
	10000166-4	UVC Kit for Air Handlers; Flat Plate (for plastic)		
	10000166-5	UVC Kit for Air Handlers; Insert Lamp Holder		
	10000166-6	UVC Kit for Air Handlers; 16" U Bracket		
	10000166-7	UVC Kit for Air Handlers; 12" U Bracket		
UVC Emitter				
GTS 12 VO	21000700	UVC Emitter	12"	45 W
GTS 16 VO	21000100	UVC Emitter	16"	55 W
GTS 20 VO	21000200	UVC Emitter	20"	64 W
GTS 24 VO	21000300	UVC Emitter	24"	72 W
GTS 30 VO	21000400	UVC Emitter	30"	86 W
GTS 36 VO	21000500	UVC Emitter	36"	100 W
GTS 42 VO	21000600	UVC Emitter	42"	110 W

OPTIONAL ACCESSORIES	Part No.
11" Emitter Extension Wire	50000111-11
32" Emitter Extension Wire	50000111-32
Cleaning Kit	90000100
Viewport	90000203
Spring Clips Mounting Kit	90000812
Short Hooks (2)	11002209
Flat Plate Lamp Holder (for metal)	90000222
Flat Plate Lamp Holder (for plastic)	90000220
Insert Lamp Holder	11005004
U Bracket – 16"	40000133
U Bracket – 12"	40000138
Replacement Power Supply for UVC Kit for Air Handlers	10000166

Choose from the following mounting options to complete the UVC Kit

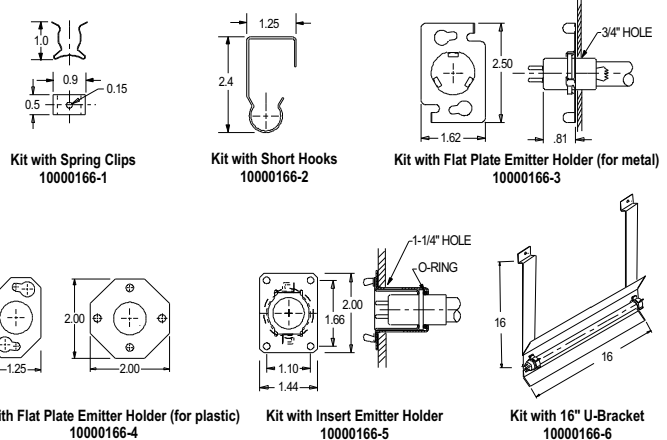


Figure 1

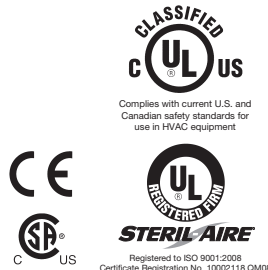
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