# Blue Halo LIGHTING | SILENTAIRE™
Comprehensive Germicidal Solutions

**This location has certified CLEANAIRE**

**SILENTAIRE · CLEANAIRE**
ENHANCED SAFETY AGAINST VIRUSES, BACTERIA & MOLD

**PROTECTION FROM ABOVE**
Blue Halo LIGHTING

# SilentAire UVC 2x4 Flat Panel

EP-SAFP-24 Series | Ambient Lighting with Internal UVC Technology**

## PRODUCT FACTS

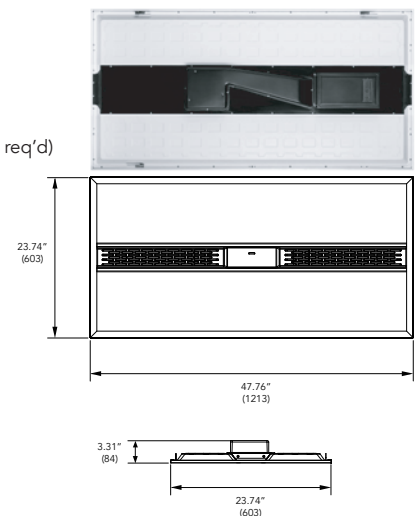**Enclosed**
GUV Distribution

*blue indicator light shows GUV system is active

## ENHANCED AIRBORNE PATHOGEN DEFENSE SYSTEM

## AIR TREATMENT UV SOLUTIONS

## KEY PRODUCT FEATURES, DETAILS & SPECS

- Engineered with the latest in UVC technology to inactivate bacteria & viruses
- Integral SilentAire fan system draws in ambient air to help continuously facilitate air treatment
- A sealed internal UVC LED chamber ensures zero direct UVC exposure
- Improve air quality for use while the space is occupied (with no special controls, safety measures or training req'd)
- Blue indicator light lets you know that the SilentAire GUV system is operational
- SilentAire fan system returns the UVC treated air back into the space
- Ambient LED performance equal to 45W @ 5,500 lumens (50W SilentAire system wattage)
- Ambient LED up to 120 LPW provides 60+% in energy savings vs. legacy fluorescent troffers
- Installs like any LED flat panel, no special installation steps required, simply 'plug & play'
- Ambient lighting to be DLC Standard qualified for energy savings & potential energy rebates
- Optional surface & suspension mount kits available for added design flexibility

23.74" (603)

47.76" (1213)

3.31" (84)

23.74" (603)

## STOCK ORDERING INFORMATION (typical 2-3 day shipment lead time)[1]

| Catalog Logic/PT# | Model # | UPC | Size | Lumens | LED Watts | LPW | System Watts | CCT | CRI | Voltage | Dimming |
|---|---|---|---|---|---|---|---|---|---|---|---|
| EP-SAFP-24-5500LM-8-40K-MV-LVD | 558071410 | 849489066943 | 2x4 | 5,500 | 45 | 122 | 50.0 | 4000K | 80 (min) | 120-277V | 0-10V |

Notes:
1. In-stock inventory, specs subject to change (contact factory for availability).
2. Search first 6-digits of the model  # followed by '##' on the DLC QPL to view DLC qualified SKUs. (Ex. '5580714##')

DLC QPL LISTED | c ETL us Intertek | FC | DAMP LOCATION | 5 YEAR WARRANTY

# SilentAire UVC 2x4 Flat Panel
## EP-SAFP-24 Series | Ambient Lighting with Internal UVC Air Disinfection**

Blue Halo LIGHTING | SILENTAIRE™ Comprehensive Germicidal Solutions

## AVAILABLE STOCK ACCESSORIES (must be ordered separately)

### Additional Performance Accessories (requires field installation)

| Catalog Logic/PT# | | Model # | Description |
|---|---|---|---|
| EMA25FY-170[1] | (G3) | 70112202-2 | Square, 25W, IP rated, 90 minutes |
| EMUFO-25170-YY[1] | (G3) | 70112201-2 | Round, 25W, IP rated, 90 minutes |
| EMA40FY-170[1] | (G3) | 70114402-2 | Square, 40W, IP rated, 90 minutes |
| EMUFO-40170-YY[1] | (G3) | 70114401-2 | Round, 40W, IP rated, 90 minutes |
| EM-R-TEST-REMOTE[2] | | 70203101 | Round BBU handheld test remote |
| SAFP-24-SM-KIT | | 906008550 | SilentAire 2x4 panel surface mount kit |
| FP-SUSP-KIT | | 95457326101 | Flat panel suspension mount kit |

Notes:
1. BBUs certified in CA Title 20 MAEDBS. (search by Catalog logic/PT#, Ex. 'EMA25FY-170')
2. BBU handheld test remote compatible w/ Round BBUs only

## MISCELLANEOUS PRODUCT SPECS & DETAILS

### Load Information

| | |
|---|---|
| Power Factor | > 0.90 |
| THD | < 20% |
| Frequency | 50/60 Hz |
| Sound Rating | 48 dBA |
| Low Temp LED | -20° C  (-4° F) |
| Max Temp LED | 45° C  (113° F) |
| Low Temp UVC LED | -30° C (-22° F) |
| Low Temp Fan | -10° C  (14° F) |
| Unit Weight | 14.65 lbs |

### Lumen Maintenance

| Ambient Temp | TM-21 LM Maintenance (60,000 hours) |
|---|---|
| 25° C  (77° F) | > 88.48% |

| Ambient Temp | TM-21 Theoretical (L70 hours) |
|---|---|
| 25° C  (77° F) | 171,700 |

## SILENTAIRE UV & FAN SPECIFICATIONS & DETAILS

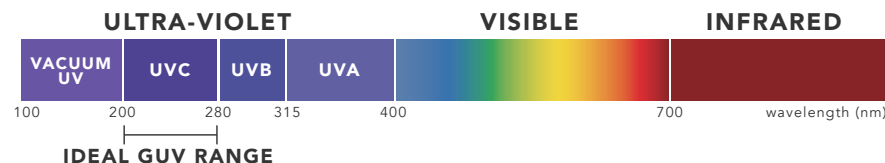| UV Source | UV Wavelength | UV Irradiance | UV Wattage | UV Lifetime | Air Flow Rate | Fan Sound Rating | Fan Wattage | Fan Lifetime |
|---|---|---|---|---|---|---|---|---|
| LED | 270-280nm | 200 mW | 1.0 | 30,000 hours | 29 CFM | 48 dBA | 4.0 | 50,000 hours |

## SILENTAIRE SYSTEM OVERVIEW

The SAFP-24 SilentAire UVC 2x4 Flat Panel is a hybrid lighting solution that combines traditional LED ambient illumination with SilentAire's internal air treatment system that does now allow any direct exposure to UVC. No specialized controls, safety measures or training required.
All SilentAire products can improve air quality when in use and the space is occupied vs. direct UVC solutions that can be a health and safety risk if not properly operated.

SilentAire products are engineered with an integral quiet fan system designed to continuously funnel contaminated ambient air through an internally sealed UVC chamber. UVC technology is proven to effectively kill or inactivate many types of bacteria, mold, fungi and viruses. The system then returns treated air back into the occupied space.

Simply install SAFP-24 products like any traditional LED flat panel luminaire with 'plug & play' operation to help create safer people spaces against airborne pathogens. Pair with additional SilentAire and CleanAire™ solutions to build an enhanced defense system against current and future bacteria.

## UV AIR TREATMENT**

1. Integral fan system helps to funnel in contaminated ambient air
2. Fully enclosed UVC chamber kills or inactivates bacteria & viruses
3. Treated air is returned to the space, helping to increase air changes per hour

## UV LED SPECTRUM DETAILS

**ULTRA-VIOLET** — VACUUM UV | UVC | UVB | UVA
**VISIBLE**
**INFRARED**
100  200  280  315  400  700  wavelength (nm)

**IDEAL GUV RANGE**

- GUV (Germicidal Ultraviolet) is an effective and proven technology in use for over 35-years
- The short ultraviolet wavelengths in the photobiological band "UVC" is ideal in eliminating bacteria
- The UVC range is outside the visible spectrum of "light" that can quickly kill bacteria & inactivates viruses
- Thanks to its fast efficacy, GUV within the UVC range is great for air treatment
- The effectiveness is set by the exposure dosage in irradiance & time (how much & how long)
- Direct exposure to GUV within the UVC range can be a safety & health hazard to both the skin & eyes
- SilentAire's sealed UVC chamber eliminates direct exposure when in use

### SAFP Series UVC LED Spectrum



Relative Spectral Power (%) vs Wavelength (nm)