



**AIRBORNE PATHOGENS THREATEN OUR HEALTH.**

Upper room UVGI modules are typically designed to be wall fixtures mounted a minimum of 7 feet above the finished floor (AFF) to irradiate the air at or near the ceiling without exposing persons to UV-C light. The National Institute for Occupational Safety and Health currently recommends that measured UV-C irradiance in the lower room should be less than or equal to  $6\mu\text{J}/\text{cm}^2$  or  $0.2\mu\text{W}/\text{cm}^2$  for 8 hour exposure.

With upper room UVGI units, the air above people's heads is subject to germicidal UV-C light, whereas lower-room air, where people actually stay and breathe, is not irradiated. A large volume of air can be disinfected without overexposing people to UV-C. Currently, upper-room UVGI is recommended by the Centers for Disease Control and Prevention as a supplemental approach for preventing transmission of TB.

The recommendation for upper room UVGI is one lamp for each 400 square feet of floor area. UVGI kills airborne microorganisms by destroying their DNA so that they cannot replicate. From an infection control perspective, the higher the dosage of UV-C radiation in microwatts per square centimeter ( $\mu\text{W}/\text{cm}^2$ ), the higher the kill rate.

**Three factors are important for efficient upper-room UVGI:**

- UV-C Dosage.
- The efficacy of air mixing rate between the upper and lower portions of the room.
- Room dimensions and wall/ceiling finishes.

In order to determine the ideal number of UVGI fixtures, room dimensions and surface reflectance must be taken into consideration. Trained personnel should assess the proposed room for suitability for the installation of ALL•AIR™ UR modules.

**For a healthy workplace and the best possible air quality, choose the L2B ALL•AIR™ UR Upper Room UVGI Module.**

**ALL•AIR™ UR UPPER ROOM UVGI MODULE**

The ALL•AIR™ UR Upper Room UVGI Module is designed to use ultraviolet germicidal irradiation (UVGI) to reduce the spread of airborne pathogens such as viruses, bacteria and mold that can trigger asthma, allergies and a host of other respiratory illnesses that can threaten the health of a building's occupants. The UR is suited for use in institutional and healthcare facilities.

The ALL•AIR™ UR UVGI Module relies on the air convection in a room to expose the airborne microorganisms to ultraviolet germicidal light. The UR module has specific installation requirements for upper room UV-C light irradiation applications.

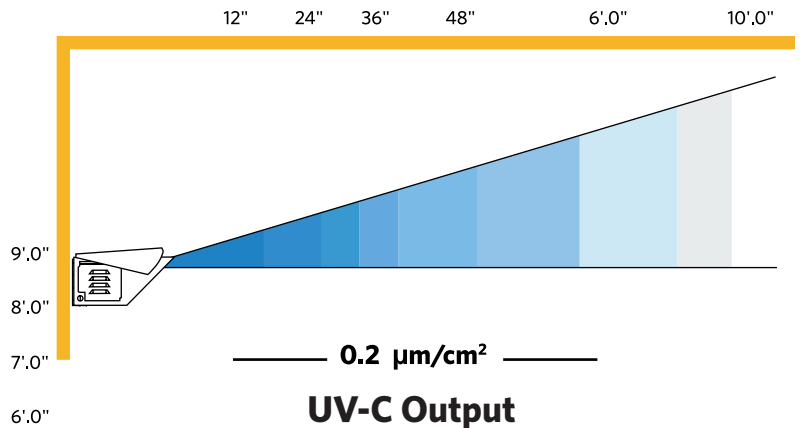
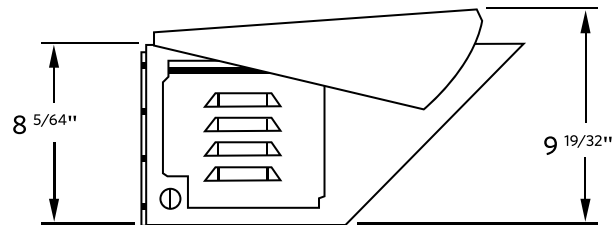
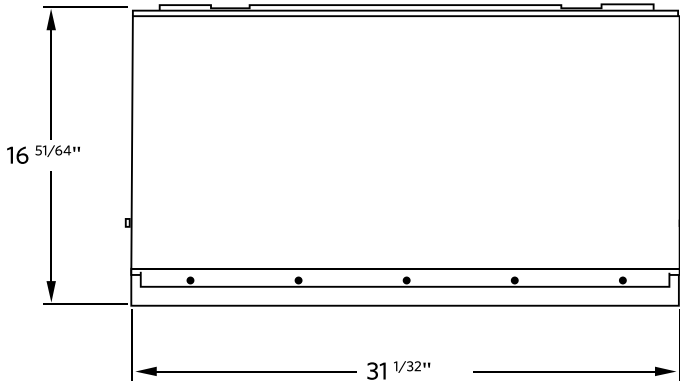
- The performance of the ALL•AIR™ Upper Room UVGI Module is dependant on having adequate air circulation within the room so that all room air is moved through the upper irradiated zone 4-6 times per hour.
- The installation must meet National Institute for Occupational Safety and Health recommended exposure limit (REL) for ultraviolet. The REL is  $0.2\mu\text{W}/\text{cm}^2$  per 8 hours of exposure.
- Upper room UVGI is not recommended in rooms with ceiling heights less than 9 feet.
- Rooms with elevated areas (i.e. bunk beds) that might allow occupants to view the light elements directly must have higher ceiling heights. Consult the L2B Engineering Department for site-specific recommendations.

**L2B'S PATENTED DESIGN FEATURES:**

- Non-ozone producing germicidal UV-C lamp
- Patented high reflectance, photocatalytic oxidation coating
- User-friendly design for easy lamp replacement
- Smart electronic ballast assembly
- Built in safety features
- Easy installation
- Low cost of ownership
- 5 year limited warranty



All or a portion of the components contained in this document may be protected by patent numbers: 5656242, 2178461, 2302004, 6589489, 2396356, 7288232, 7303612.



**ALL-AIR™ UR UPPER ROOM AIR PURIFICATION SYSTEM**

SPECIFICATIONS	Model# UR1211C12223A
Germicidal UV-C Lamp	Single 55 watt
HR/PCO Coating	Yes
Area Coverage	(up to) 400 ft <sup>2</sup>
Minimum Room Size	Typical 12' x 15' or 180 ft <sup>2</sup>
Minimum Ceiling Height	9 feet
Minimum Mounting Height	7 feet above the floor
Electronic Lamp Ballast	Universal 36 -75 watts
Power	120 VAC, 50/60 Hz, 108 watt. 8 foot power cord included
Electrical Approval	CSA/UL
Weight (approximate)	5.67 Kg / 12.5 lbs
Limited Warranty	5 years

NOTE: 1) Room air circulation is required by others • 2) UVGI lamps must be out of line-of-sight.