RLM X XTREME

Easy-to-Install
Up to Twice as Powerful

INDOOR

Applications

The RLM [X] is designed for quick, easy installation of very high output UVC lamps in air handling units (AHUs) of virtually any size and offers no less than 85% of original output, depending on conditions. The RLM [X]'s infinite configuration capability provides for flexibility to accommodate multiple rows of Lamps with up to 6 pre-wired, factory-mounted power supplies per electrical housing. All components required for installation are included. The RLM [X] offers unparalleled versatility to configure the system with very high output lamp lengths of 33" and 61" for optimum coil coverage.

When installed near HVAC cooling coils, the RLM [X] can improve heat transfer efficiency, reduce energy use and lower maintenance costs.

The RLM [X] fixture meets all ASHRAE guidelines and is suitable for most UV-C applications.

AIR & SURFACE DISINFECTION | 120-277Vac | LAMP LIFE 9000 HRS | INTERNAL MOUNTING | 5 YEAR WARRANTY | NEMA 4X | ETL Intertek

Features

- **Fast, Easy Plug-n-Play Installation**
- **EncapsuLamp™ shatter resistant lamp sleeve**
- **Low Voltage Door Safety Switch - 12V Safety Switch included for up to 6 access points**
- **IP67 waterproof lamp connection**
- **CU2 Lamp-Power supply local/remote monitoring**
- **NEMA 4 enclosure options**
- **Flexible and Adaptable to any HVAC system**
- **High output UVC lamps engineered for cold air applications**
- **Provides continuous Coil Cleaning**
- **Saves HVAC energy and provides cleaner air to the occupied space.**
- **Non-ozone producing lamps**

FIXTURE is factory-assembled and tested. It has a powder coated steel housing, 3 knock-outs for wiring ease, multiple access points, a 12V safety switch for up to six (6) HVAC access points, lamp/power supply indicator, M12 Lamp Connector cable, IP67 waterproof lamp connector, Fixture Framing, quick slip lamp holder, and UV-C lamps.

HOUSING is constructed of 16ga powder-coated steel. They are designed to facilitate NEC-style power supply installations inside or outside of plenums. The Housing accommodates the required number of power supplies while protecting against electrical shock and moisture incursion, includes M12 lamp Wiring Cable connection points. NEMA 4 Housing option available.

POWER SUPPLY is a waterproof, Type 1, outdoor, high-power factor, electronic rapid-start type with overload and end-of-lamp-life circuit protection that maximizes lamp radiance, life, and system reliability at temperatures of 33°F to 170°F. Input: 120-277VAC, 50/60 Hz, with a sound rating of A. The power supply can ensure a minimum of 9000 hours of lamp life, with 85% of its initial output at the end of the lamp's useful life. The power supply is protected against "end of lamp life" conditions.

INTERLOCK SAFETY SWITCH – Each fixture housing comes equipped with a UL listed 12V Contact Controller to interlock UV-C lamp system operation with the air-handling unit and up to six (6) access doors with magnetic or other type reed switch(es). When an access door or panel is opened or removed the UV-C lamp system is de-energized.

IP67 LAMP CONNECTOR CABLE is UL/CUL listed, 4-pin Single-Ended (SE) type capable of accommodating a 4 pin single-ended lamp. The IP67 Lamp Plug is constructed of UV resistant materials and designed to connect the lamp to the Lamp Plug creating a water-tight connection to protect against electrical shock, moisture and separation. It includes a four (4) foot cable with an M12 connector.

WIRING CABLES extension options of 5', 10' and 20' lengths and include M12 male and female connectors. Cables can be combined to be of sufficient length to facilitate lamp connection to a remotely located power supply. The cable shall be capable of carrying the striking and operational voltage required to properly energize and maintain the UV-C Lamp.

LAMP AND BALLAST MONITORING supplies continuous monitoring sensor that provides a direct on/off LED display, and a 0V-5V on/off signal, as an indicator to a building management system that lamp(s)/power supply(s) is/are operational. Optional remote monitor(s) can be installed outside the plenum in a clear covered NEMA-4 enclosure to directly/remotely monitor power supply with the option for a single signal to the building management system.

INSTALLATION KIT Adjustable extruded aluminum vertical supports for installation of UV-C fixture accommodating varying plenum heights. Kit includes all necessary components to affix vertical supports to the plenum ceiling and will have an adjustable stainless-steel threaded stud and a nylon leveling foot.

LAMPS are non-proprietary, single ended, very high output, hot cathode, T5, 4 pin, base types that produce broadband UV-C at 254 nm and produce the specified output at any airflow velocity and temperatures of 33°F to 170°F. They are sleeved with EncapsuLamp™ (FEP) for protection in case of accidental breakage and are non-ozone producing types. The minimum useful lamp life is 9,000 hours, with no less than 85% of original output, depending on conditions.

SAFETY – UV-C system On/Off toggle switch(s) is installed on the exterior of all UV-C plenums next to the plenum access door. UV-C warning signs/labels are to be installed on all UV-C access points to ensure that the UV-C fixtures are de-energized so personnel are cautioned before any access point is opened.

Independent Testing – All UV-C components are tested and labeled to UL ABQK.

X-BOX-P, X-BOX PS & X-BOX PS-NEMA 4R FOR RLM [X] "HIGH OUTPUT" (HO) LAMPS

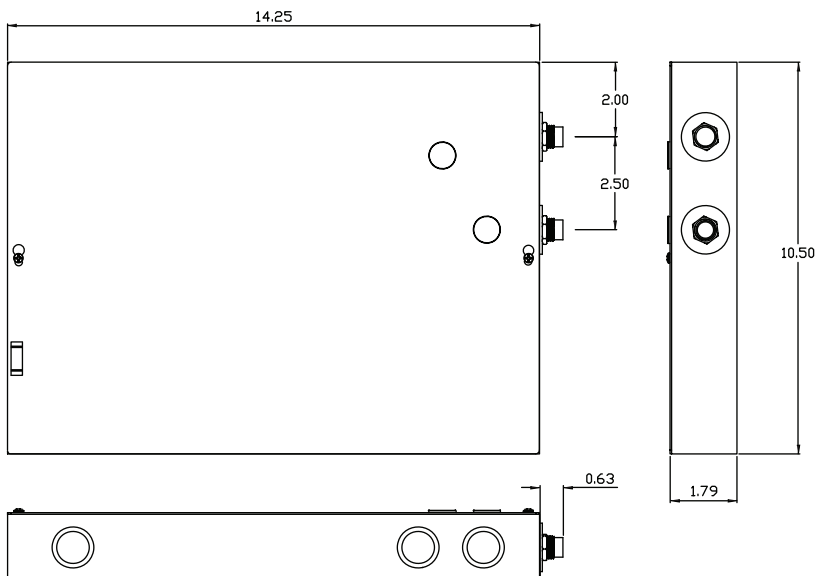| P/N	Product Description
55800162	RLM-X-Box-2PS 120–277V, Incl: CU2 per Power Supply with Contact Controller Interlock, 20' Magnetic Reed Switch
55800164	RLM-X-Box-4PS 120–277V, Incl: CU2 per Power Supply with Contact Controller Interlock, 20' Magnetic Reed Switch
55800166	RLM-X-Box-6PS 120–277V, Incl: CU2 per Power Supply with Contact Controller Interlock, 20' Magnetic Reed Switch
55800172	RLM-X-Box-2PSN (NEMA 4X) 120–277V, Incl: CU2™ per Power Supply with Contact Controller Interlock, 20' Magnetic Reed Switch
55800174	RLM-X-Box-4PSN (NEMA 4X) 120–277V, Incl: CU2™ per Power Supply with Contact Controller Interlock, 20' Magnetic Reed Switch
55800176	RLM-X-Box-6PSN (NEMA 4X) 120–277V, Incl: CU2™ per Power Supply with Contact Controller Interlock, 20' Magnetic Reed Switch

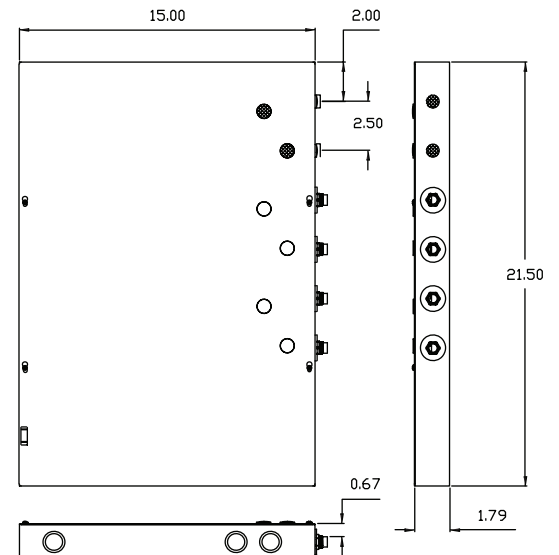| P/N	Product Description
55066551	SEL 33" Single Ended- High Output EncapsuLamp™ - Single Pack Includes ONE Each
55086551	SEL 61" Single Ended- High Output EncapsuLamp™ - Single Pack Includes ONE Each

Order Lamp(s) Separately

RLM [X] - ACCESSORIES AND REPLACEMENT PARTS

P/N	Product Description
55000170	IP67 LampConnector Cable Kit - Typical germicidal SE 4 Pin Lamp
55000054	Cable Strap Kit
55000053	Quick Slip Mounting Kit with Dielectric Grease
90002890	RLM [X] Replacement Power Supply Kit 120–277V (M12 connection with CU2 installed)
55002005	UV-C Fixture Framing Installation Kit (Includes 2ea ~5' Struts, 1 ea Gusset Kit w/allen wrenches, 1 ea Leveling Foot Kit, 2 ea splice)
90003000	Gusset Kit (used with UV-C Fixture Installation Kit)
90003010	Leveling Foot Kit (used with UV-C Fixture Framing Installation Kit)
90003012	Splice Kit (used with UV-C Fixture Fran1ing Installation Kit)
90004044	CU2™ Ballast Sensing Monitor - 4 Pack
90004052	UVRepeat™ Kit 2 Board (Includes NEMA 4 Box & UV Repeat)- up to 15 CU2s
90004054	UVRepeat™ Kit 4 Board (Includes NEMA 4 Box & UV Repeat)- up to 28 CU2s Replacement UVRepeat circuit board (single board)
55000192	NEMA4 Box Spare Keys - 2 Pack

RLM-X-Box-2PS

RLM-X-Box-4PS

ETL LISTED Intertek
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UVR[x]