

UV-C for Surface Disinfection and On-The-Fly

Applications

The dual lamp very high output (VO) NEMA-4 ultraviolet-C fixture (DLN [X]) mounts on the exterior of plenums or ducts so UV-C can efficiently and affordably disinfect HVACR airstreams, cooling coils and drain pans to keep them free of potential infection-causing and efficiency-robbing microorganisms and organic matter (biofilm).

The DLN [X] exterior mounted fixture's two VO lamps protrude into RTUs, supply, return or exhaust plenums or duct, or AHUs where they can best treat surfaces and the airstream with 360-degree germicidal output. Its NEMA-4 outdoor rating provides a versatile means of inactivating pathogens on virtually any indoor or outdoor HVAC system or duct.

With lamp sizes ranging from 16- to 30-inches, the DLN [X] meets a full-range of new/retrofit applications including in airstreams of 33°F to 170°F, 100% RH, and any velocity.

The DLN [X] is constructed of premium materials with powder coated heavy-gauge steel designed to withstand virtually any environment. Power supplies are waterproof and UV-C germicidal lamps are very high output (VO), high-efficiency, low-waste content products that surpass today's environmental standards and come standard with protective EncapsuLamp™ FEP coating.

Multiple lamp lengths, and smart multi-voltage (120-277V) input power options make for easy installation in nearly any application. The DLN [X] fixture meets all ASHRAE guidelines and is suitable for virtually any HVACR applications.



Benefits

- Dual, very high output (VO) lamps
- Perfect for surface or airborne pathogen inactivation
- NEMA-4 design installs outdoors or indoors
- Easily installs to exterior of return, supply or exhaust ducts
- 360° UV-C energy distribution
- 120-277V power options
- Integrated lamp/ballast monitoring with BMS output
- UV-C Improves indoor air quality (IAQ)
- Destroys coil/drain pan microbial growth
- Produces no VOCs, zone or dangerous chemical byproducts
- Restores AHU capacity and efficiency



FIXTURE is factory-assembled and tested and features an outdoor-rated powder coated steel NEMA-4 housing, a “waterproof” power source, LED lamp/power supply monitor and two very high output (VO) UV-C lamps. Construction is designed to withstand outdoor or indoor applications.

HOUSING is constructed of powder coated heavy-gauge steel with 1 - ½” conduit knockout on the fixture’s base for hard-wiring, or an appropriately size hole can be made with a step-down drill bit to allow for a waterproof conduit connection. The fixture is designed to be mounted and serviced from the exterior of its installation site; such that, the lamps protrude into the plenum or duct. It can be externally mounted anywhere in an HVACR system, duct or as shown on system plans.

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 33-170°F. Input: 120-277Vac, 50/60 Hz, with a sound rating of A.

SOCKETS are standard 4-pin types constructed of a UV resistant plastic for long life.

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

INDEPENDENT TESTING is in conformance with all safety requirements and listed with Underwriters Laboratories (ABQK).

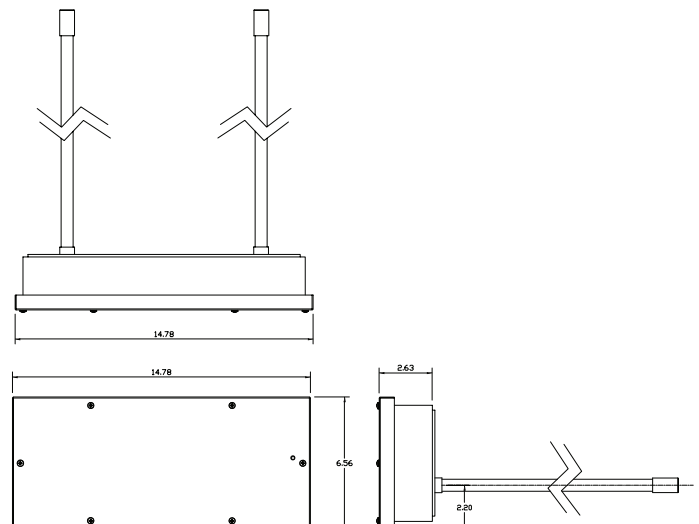
DLN [X]™ NEW OR REPLACEMENT HIGH OUTPUT (HO) UV-C LAMPS - MULTIPACKS AVAILABLE

P/N	Product Description
21000701	GTS 12 VO - 12" Single Ended EncapsuLamp™ - Single pack Includes ONE each
21000101	GTS 16 VO - 16" Single Ended EncapsuLamp™ - Single pack Includes ONE each
21000201	GTS 20 VO - 20" Single Ended EncapsuLamp™ - Single pack Includes ONE each
21000301	GTS 24 VO - 24" Single Ended EncapsuLamp™ - Single pack Includes ONE each
21000401	GTS 30 VO - 30" Single Ended EncapsuLamp™ - Single pack Includes ONE each

DLN [X] NEMA-4 - DUAL LAMP(S) HIGH OUTPUT FIXTURE (FOR OUTDOOR OR IN DOOR LOCATIONS)

P/N	Product Description
57806550	DLN [X] Dual Lamp Single Ended High Output NEMA 4 Fixture - 120-277V Lamp Lengths from 12" to 30"
57800071	DLN [X] Replacement Ballast Kit (Includes CU2, 4 pin connectors)
57000053	DLN [X] / SL [X] Installation and Mounting Kit

Order Lamp(s) Separately



The health aspects associated with the use of this product and its ability to aid in the disinfection of environment air have not been investigated by UL. Air duct mounted accessory with respect to electric shock, fire and casualty hazards only.

Represented by:



Specifications subject to change without notice. UV Resources, LLC Rev. A