



DEF UV-C Series – High Output

BENEFITS

- Meets all “fixture” specifications
- Fixture-to-fixture Plug-n-Play
- Installs quickly and easily anywhere
- Easy to specify, source, and purchase
- Water-proof ballast/ components
- Destroys coil/drain pan microbial infestations
- Restores AHU capacity and efficiency
- Ends tedious coil/drain pan cleanings
- Improves indoor environmental quality
- Industry’s lowest cost of ownership
- UL, CUL and other agency sanctions
- 3-year fixture, 1-year lamp warranties

For over 100 years, UV-C technology has benefited humanity through the disinfection of injuries, water, air, and food. UV-C is used around the world in applications ranging from wastewater plants to bottled water purification, to surface decontamination and airborne disinfection of the most deadly microorganisms known.

Peer-reviewed and published research shows that UV-C not only disinfects surfaces and airstreams but also deteriorates organic substances. Organic matter destruction by UV-C is widely established from in situ applications in government buildings to all major institutional facilities in the United States and by ASHRAE independent study RP1509.

UV-C systems are installed in hospitals to disinfect moving air streams in HVAC systems and ambient air in patient rooms. UV-C is also installed in HVAC systems to keep cooling coils, drain pans, and other internal services free of contaminants and microbes that reduce airflow and coil heat transfer efficiency, and propagate infectious or allergenic agents that lead to higher absenteeism and lower productivity.

UVR manufactures the most affordable, effective, efficient, and reliable products in the industry. DEF construction is of premium materials like stainless steel, polycarbonate, and Teflon® for sustainability in all environments. Power supplies are waterproof and spectral lamps are high-efficiency, low-waste content products that surpass today’s environmental standards.

These benefits, along with ease of installation and low cost, make all UVR products and systems the user’s choice for most any UV-C system in today’s HVAC equipment.

Application

DEF High Output fixtures meet all ASHRAE-supported product specifications and are suitable for most any UV-C application. They connect end-to-end using internal PnP connections for fast, simple, and reliable installations of any length and number of rows necessary to achieve the specified irradiance. They can be installed in supply, return, or exhaust plenums, and ducts, to disinfect moving air streams and surfaces, preventing microbial proliferation and transfer, and the buildup of organic materials. Various sizes and 120–277 voltage options allow application most anywhere.

HIGH OUTPUT

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REPRESENTED BY:

UVR

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CONSTRUCTION

FIXTURES are factory-assembled and tested. They consist of a housing, waterproof power source, lamp sockets, quick connects, and lamp. Construction is designed to withstand HVAC environments and is UL/C-UL (ABQK) Listed.

HOUSING is constructed of heavy-gauge 304 stainless steel, and is equipped with 6-1/2-inch conduit knockouts on the fixture's top, bottom, and ends for ease of wiring. Fixtures can be mounted anywhere in an HVAC system or as shown on 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 1–70°C. Input: 120–277 VAC (±10%), 50/60 Hz, with a sound rating of A.

SOCKETS are bi-pin, single-click safety, twist-lock type and constructed of polycarbonate.

LAMP is a very high output, T5 diameter, medium bi-pin type that produces broadband UV-C of 253.7 nm. Each lamp produces the specified output at any airflow velocity and heating and cooling temperatures of 1–70°C. Minimum useful lamp life is 9,000 when used continuously, with no more than a 20% output loss depending on conditions.

INDEPENDENT TESTING – Fixtures have been independently tested to verify UV output under various conditions and in conformance to UL/C-UL (ABQK).

DEF UV-C Series Standard Output

Part No.	Dim "A"
52844541	21.5
52854541	33.5
52844540	21.5
52854540	33.5

ORDERING INFORMATION

Model #	P/N	Description	Electrical
FIXTURING			
DEF-221-T5-HO-120-277	52844541	DEF 22" Double Ended Fixture – High Output - MV	120–277 Vac, 50–60 Hz
DEF-341-T5-HO-120-277	52854541	DEF 34" Double Ended Fixture – High Output - MV	120–277 Vac, 50–60 Hz
DEF-220-T5-HO-120-277	52844540	DEF 22" Double Ended Fixture – High Output - MV – Without Lamp	120–277 Vac, 50–60 Hz
DEF-340-T5-HO-120-277	52854540	DEF 34" Double Ended Fixture – High Output - MV – Without Lamp	120–277 Vac, 50–60 Hz
LAMPS			
DEL-22L-HO-T5-1	52044541	DEL 22" Double Ended High Output Lamp	
DEL-34L-HO-T5-1	52054541	DEL 34" Double Ended High Output Lamp	
DEL-22L-HO-EL-T5-1	52046541	DEL 22" Double Ended High Output EncapsuLamp Lamp	
DEL-34L-HO-EL-T5-1	52056541	DEL 34" Double Ended High Output EncapsuLamp Lamp	
ACCESSORIES			
UVR-24V UVM	90001201	UVRReport™ UV-C Monitor – 24 Vac w/Sensor	24 Vac
UVR-120–240V ISS	90001500	Access Interlock Safety Switch – 120–277 Vac	120–277 Vac

The health aspects associated with the use of this product and its ability to aid in the disinfection of environmental air have not been investigated by UL.



Specifications subject to change without notice.

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The UVR website contains tools that let you select, specify, and/or purchase complete UV-C systems. You'll also find valuable content that will help simplify installation, operation, and maintenance of UV-C systems. For more information, go to www.uvrresources.com