



DEF UV-C Series – High Output Datasheet

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 energy has benefited humanity by disinfecting water, air, food, and more. It’s used worldwide in waste and bottled water plants for surface decontamination and airborne disinfection of the deadliest microorganisms known.

Published research shows that UV-C not only disinfects surfaces and airstreams but it also destroys organic compounds. Its photo-destruction of this material in HVAC equipment is widely established by academia, independent research and ASHRAE.

UV systems are widely installed in hospitals to disinfect HVAC air streams, cooling coils and drain pans to keep them free of microorganisms and other organic debris that reduce airflow and coil heat transfer efficiency. It stops the proliferation of infectious or allergenic agents and lowers the cost of maintaining and operating HVAC equipment.

UV Resources manufactures the most affordable, effective, efficient, and reliable products in the industry. The DEF is constructed of premium materials such as 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 the DEF series and 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 guidelines and are suitable for most any UV-C application. They connect end-to-end using 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/or surfaces, preventing microbial proliferation and transfer to conditioned spaces, and to preclude the buildup of organic materials. Various sizes and 120–277V voltage options allow easy fit-up most anywhere.

HIGH OUTPUT

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REPRESENTED BY:

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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 HVACR environments and is UL/C-UL (ABQK) Listed.

HOUSING is constructed of heavy-gauge 304 stainless steel, and is equipped with 6-1/2” conduit knockouts on the fixture’s top, bottom, and ends for ease of wiring. Fixtures can be mounted anywhere in an HVACR system 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 1–70°C. Input: 120–277 Vac, 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 at 253.7 nm. Each lamp produces the specified output at any airflow velocity and temperature of 1–70°C. Minimum useful lamp life is 9,000 hours and up to 18,000 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 – High 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			Watts
DEL-22L-HO-T5-1	52044541	DEL 22” Double Ended High Output Lamp	45 W
DEL-34L-HO-T5-1	52054541	DEL 34” Double Ended High Output Lamp	75 W
DEL-22L-HO-EL-T5-1	52046541	DEL 22” Double Ended High Output EncapsuLamp Lamp	45 W
DEL-34L-HO-EL-T5-1	52056541	DEL 34” Double Ended High Output EncapsuLamp Lamp	75 W
ACCESSORIES			
UVR-24V UVM	90001201	UVReport™ 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 and specify 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.uvresources.com