



DEF UV-C Series – High Output

BENEFITS

- Meets strict market specifications
- Industry's lowest cost of ownership, yet highest UV Flux Density in air
- UL, CUL and other agency sanctions
- Easy to specify, source and purchase
- Installs quickly and easily anywhere
- Restores AHU capacity and efficiency
- Lowers energy use in restored systems
- Inactivates/kills airborne microbes
- Diminishes circulating cold and flu viruses
- Proven effective on highly infectious agents: TB, Anthrax, Small Pox, Legionella, etc.
- Destroys mold and bacteria on coils
- Destroys drain pan microbial infestations
- Ends classical coil/drain pan maintenance
- Improves indoor environmental quality
- Works like the sun—no residue remains
- **3 year fixture warranty**
- **1 year lamp warranty**

In the 1800s, UV-C disinfected and helped heal human lesions using “Finsen’s Curative Lamp.” In 1908 UV-C disinfected drinking water in Marseille, France. Applications began to grow to include the disinfection of medical implements, K-Rations and helped eliminate TB in healthcare venues. Now UV-C is used around the world from waste-water plants and purifying bottled water; to surface decontamination and airborne inactivation of some of the most deadly microorganisms known. Today’s disinfection and degradation of organic material is well established from GSA Standards, Homeland Security and DNA matching (optimization PCR amplification), to HVACR energy and maintenance savings and greatly improved IAQ. Properly designed UV-C systems are fast becoming one of humanity’s greatest technology tools. Scientific studies and real-life anecdotal experiences abound to make UV-C one of the most widely tested HVAC technologies available to building owners, managers and engineers.

The acceptance of UV-C’s ability to photo-disassociate ionic, covalent and dimerized bonds of micro organisms, including those that are airborne is widespread. Healthcare facilities in the United States and around the world have installed numerous UV-C systems to disinfect moving air streams. Now, UV Resources (UVR) allows these benefits to be properly and easily applied in any facility as cost is no longer a barrier.

UVR delivers the DEF HO fixtures at the lowest cost available in the market while maintaining product quality through premium materials like stainless steel, polycarbonate and Teflon® for sustainability in all environments. Power supplies and spectral lamps are electronically matched to provide the highest output while maintaining the longest life. These benefits, along with ease of installation, make UVR’s products and systems the users’ choice for both air stream and surface disinfection within HVACR applications.

Application

DEF Fixtures connect end-to-end to form any length and number of rows to achieve the necessary flux density. They install anywhere in a system, e.g., supply, return or exhaust plenums, and ducts, to irradiate a moving air stream or to bathe surfaces preventing microbial proliferation or the buildup of organic materials. Various sizes and voltage options allow applications anywhere.

HIGH OUTPUT

HO

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REPRESENTED BY:

SPECIFICATIONS

FIXTURE AND LAMP are factory-assembled and tested. They consist of a housing, power source, lamp sockets, and lamp. Construction is designed to withstand HVACR environments and is appropriately UL/C-UL (ABQK) Listed.

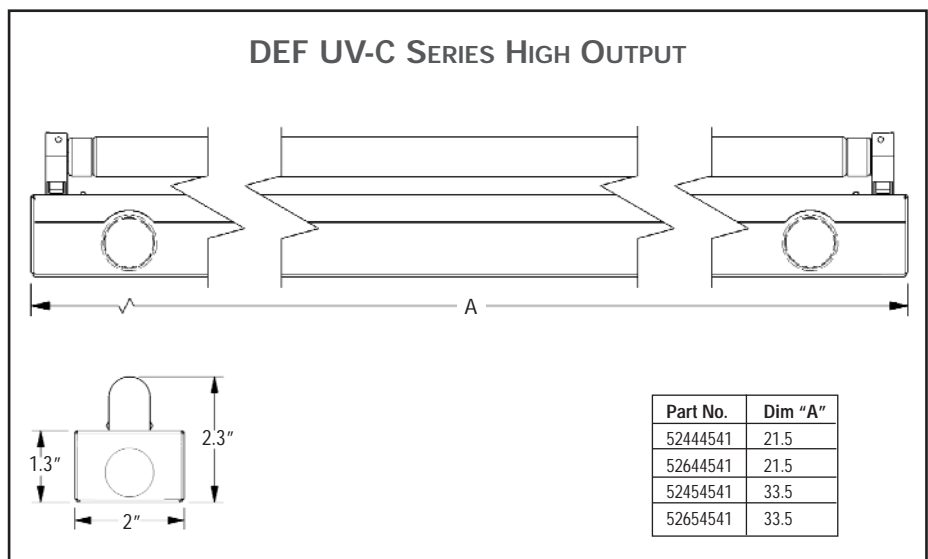
HOUSING is constructed of heavy gauge 304 stainless steel that provides conduit connection from the fixture's top, bottom and/or end. They can be mounted anywhere in an HVACR system or as shown on system plans.

LAMP is a very high output, T5 diameter medium bi-pin type that produces broad-band UV-C of 253.7 nm. Each lamp produces the specified output at any airflow velocity and at both heating and cooling temperatures of 1–70°C. Useful lamp life is 9000 hours of continuous use with no more than a 20% output loss.

POWER SUPPLY is a type 1, outdoor, high power factor, electronic instant-start type, with overload and end of lamp life circuitry to maximize lamp radiance, life and reliability at temperatures of 1–70°C. Input: 120 or 240 Vac ($\pm 10\%$), 50–60 Hz, with a sound rating of A.

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

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



ORDERING INFORMATION

Model No	P/N	Description	Electrical	Weight
FIXTURING				
DEF-221-T5-HO-120	52444541	UVR 22" Double Ended Fixture – High Output – 120 Vac	120 Vac, 60 Hz, .77 A	2 Lbs.
DEF-341-T5-HO-120	52454541	UVR 34" Double Ended Fixture – High Output – 120 Vac	120 Vac, 60 Hz, .77 A	3 Lbs.
DEF-221-T5-HO-240	52644541	UVR 22" Double Ended Fixture – High Output – 240 Vac	240 Vac, 50 Hz, .39 A	2 Lbs.
DEF-341-T5-HO-240	52654541	UVR 34" Double Ended Fixture – High Output – 240 Vac	240 Vac, 50 Hz, .39 A	3 Lbs.
LAMPS				
DEF-22L-HO-04	52044544	UVR 22" Double Ended High Output (HO) Lamp (4-pack)		3 Lbs.
DEF-34L-HO-04	52054544	UVR 34" Double Ended High Output (HO) Lamp (4-pack)		3 Lbs.
ACCESSORIES				
UVR-24V-FR	90001200	Fixed Radiometer with Sensor	24 Vac	0.5 Lb.
UVR-120-240V-ISS	90001500	Access Interlock Safety Switch	120–240 Vac	0.5 Lb.

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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