

Ultraviolet Disinfection

Single Ended Fixture Model SEF-N

Fixture housing and lamp shall be of the single-ended lamp type and be factory assembled and tested. Each device shall consist of a NEMA 4x rated housing, power supply, lamp socket, lamp holder, housing cover, and lamp and shall be constructed to withstand outdoor and HVAC environments. Fixture assemblies are to be Model SEF - N series as manufactured by UV Resources.

Housings shall be NEMA 4x rated and constructed of high performance non-ferrous polycarbonate. It shall be formed and constructed in such a manner that incorporates the power source, lamp socket, lamp holder and lamp into one integral and sealed assembly that assures safety and serviceability. Each housing shall be equipped with 4- ½” knockouts sufficient to facilitate the fixture’s proper connection to A/C power. The housing shall contain the proper number of mounting holes adequate for suitable installation.

Power Supply shall be of the High Power Factor, Class P, Sound Rated A, Type 1 Outdoor type with End of Lamp Life and Inherent Thermal Protection. The power source shall automatically optimize power output for any lamp length of between 12” – 36” to be capable of lighting and maximizing radiance from each lamp in temperatures ranging from 1° to 70° C, and airflow velocities to 1000 fpm.

Lamp Socket shall be of the Circline plug type and constructed of polycarbonate.

Lamp Holder shall completely encompass the lamp base with a user adjustable compression coupling that inflexibly secures the lamp to the lamp Power Source.

Housing Cover shall be constructed of high performance non-ferrous polycarbonate and be equipped with a NEMA 4 rated “O”-ring to hermetically seal the entire housing from the elements, yet be removable to provide service without the use of special tools.

Lamps shall be of the high output, hot cathode, T5 (15mm) diameter, single-ended Circline base type. They shall produce no ozone and provide an initial minimum UVC transmittance of 83%. Filaments shall be triple-coiled, tungsten coated, clamped-filament type to enhance plasma stability and longevity. The base shall be constructed to eliminate any deterioration. Lamps shall be capable of producing the specified output at airflow velocities to 1000 fpm and temperatures of 1-70° C.

Independent Testing as submitted, shall have been performed by UL to be Listed and labeled as UL/C-UL under Category Code ABQK (Accessories, Air Duct Mounted), UL Standards: 153, 1598 and 1995 respectively.