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Fresh-Aire UV Introduces Light Design/Analysis Service

Fresh-Aire UV has introduced Blue-Calc, a UV-C light design and analysis service. Blue-Calc's unique web service provides calculations of both airborne and cooling coil surface microbe disinfection efficiencies from UV-C light exposure and generates detailed color chart and graph image printouts for building owner presentations, the company says.

An online form prompts engineers and contractors to input the design parameters of any size HVAC system project. The program provides users with sizing, mounting configuration, lamp type and placement specification data that has been factory engineer-reviewed. The design and analysis results include up to seven color performance graphs and charts that are printable for proposals and building owner presentations.

Blue-Calc can detect inadequate coverage or insufficient microbe inactivation time in a specification conforming to the UVGI industry's D99 criteria — a dose resulting in a minimum 99-percent inactivation. The software program precisely sizes for UV light intensity and auto-placement for optimal disinfection and helps cut project costs by eliminating equipment over-sizing.

Inputting data on the form takes only minutes. An optional space is also provided to describe unusual project characteristics such as unconventional HVAC configurations or an interest in the disinfection of specific microbes. Required input data includes enclosure dimensions, air velocity, air handler/coil model and other parameters related to Fresh-Aire UV's UVGI system requirements.

Blue-Calc automatically configures UV lamp locations and mathematically models UV irradiation and microbe inactivation over hundreds of thousands of data points within the HVAC enclosure. The calculated data is illustrated by different charts/graphs, such as both lengthwise and crosswise "Irradiation Field Intensity," "Microbe Survival Profile," "Irradiance on the Surface," "Survival Times" and other illustrations.

Data includes charts and graphs, the selected lamp model and parameters, number of lamps, lamp locations, UV power, electrical power requirements, each lamp's peak irradiance, in-duct irradiance ($\mu\text{W}/\text{cm}^2$), and microbe inactivation calculations.

For more information: www.freshaireuv.com

Request More Information

Use the form below to request more information about Fresh-Aire Blu-calc

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