Sign Up | Log In | ThomasNet Home | Promote Your Business

THOMASNET' News

Search

HOME | PRODUCT NEWS

COMPANY NEWS

Share 🚹 📵 🧖 🚮 🔐

INDUSTRY NEWS | ADVERTISE | SUBMIT PRESS RELEASE

Aug 24, 2013



Fresh-Aire UV® Debuts Blue-Calc(TM), a UV Light Sizing/Design/Analysis Service for **Engineers & Contractors**



Print | Kapara Email | Comment

Contact Information

Press release date: April 8,

Fresh-Aire UV®, Jupiter, Fla., the originator of the patented Blue-Tube UV® 24-VAC low-voltage ultraviolet germicidal irradiation (UVGI) light, has developed Blue-Calc™, a UV-C light design and analysis service using stateof-the-art sizing software for HVAC engineers and contractors. 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.

Available at

www.freshaireuv.com, Blue-Calc's online form prompts engineers and contractors to input the design parameters

Irradiance on the Surface

Fresh-Aire UV® Debuts Blue-Calc(TM), a UV Light Sizing/Design/Analysis s & Cont Click Here to Enlarge Picture



See related product stories

Spray Gun App provides specifications, recommendations, and more.

Software/Hardware Suite fosters HD viewing on mobile devices.

Datalogger Software meets monitoring and alarming requirements.

Web-Based Software provisions VoIP gateways.

Design Packages accelerate safety-critical product development.

More

See more product news in:

Software

More New Product News from this

UV Light Rack System provides microbial disinfection.

More

Tools for you

Print This Page

Watch Company

View Company Profile

Company web site

More news from this company

E-Mail Story

Save Story

Search for suppliers of

Product Configuration Software

Join the forum discussion at:

Engineers Lounge





New 356-pg. Electronic Hardware Catalog







for optimum microbe disinfection and operate to the proper specifications," said Chris Willette, president, Fresh-Aire UV. Developed collaboratively by Fresh-Aire UV's in-house UVGI and software engineering departments, Blue-Calc can detect inadequate coverage or insufficient microbe

inactivation time in a specification conforming to the UVGI industry's D99 criteria -- a

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 ensures an engineer's UV light configuration will be effective

dose resulting in a minimum 99-percent inactivation.

Blue-Calc's software program precisely sizes for UV light intensity and auto-placement for optimal disinfection and helps cut project costs by eliminating equipment oversizing. "Too many engineers and contractors simply rough-estimate the number of UV lamps and their placements in the HVAC unit," said Willette, "now they can apply an exact science for UVGI's full benefit. Future versions we're planning will be able to calculate and chart energy and maintenance cost reductions and other valuable UV benefits for engineers and their clients."

Blue-Calc's custom-written software is based on mathematical modeling of the UV disinfection process pioneered by UVGI industry scientists and Fresh-Aire UV's recent third-party laboratory testing. 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.

Some of the program's charts are unique to the UVGI industry. The "Microbe Survival Profile" image, for example, uniquely demonstrates the program's ability to calculate reflectivity of a variety of duct material surfaces, such as stainless steel, galvanized steel, aluminum and even interior insulation. All materials have different degrees of reflectivity, which is a mirror-like effect that can intensify UV light. A higher reflectivity equates to a higher microbe disinfection rate and the potential of cutting project costs by reducing the number of needed UV lights or their output performance.

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.

Besides charts and graphs, output data includes the selected lamp model and parameters, number of lamps, lamp locations, UV power, electrical power requirements, each lamp's peak irradiance, in-duct irradiance (μ W/cm2), and microbe inactivation calculations.

For more information on Fresh-Aire UV and its full line of UVGI, APCO® and other IAQ products, please visit www.freshaireuv.com, call 1-(800) 741-1195 or email: sales@freshaireuv.com.

About Fresh-Aire UV®: Fresh-Aire UV® is a division of Triatomic Environmental Inc., Jupiter, Fla., a leading manufacturer and developer of germicidal UV light systems designed for commercial/industrial and residential HVAC systems and ice machines. Among their products is the patented Blue-Tube UV®, the first 24 volt low-voltage germicidal UV light for HVAC, which has become the most popular product of its type in the world. Fresh-Aire UV's revolutionary APCO® (advanced photocatalytic oxidation) system, which combines UV-C light with activated carbon cells for comprehensive odor, VOC and microbial control, was an International Innovation Award winner at the 2011 AHR Expo. Fresh-Aire UV® systems are sold through wholesale HVAC/R distributors, specified by consulting engineers and installed/serviced by air conditioning contractors. Fresh-Aire UV® continually strives to engineer, develop and market products to meet the demand for a greener world and healthier environment. The UV products improve air quality, enhance the efficiency of HVAC/R systems and reduce maintenance costs. For more information please visit www.freshaireuv.com, call 1-(800) 741-1195 or email: sales@freshaireuv.com.



Post a comment about this story

Name:

E-mail:

(your e-mail address will not be posted)









Comment title:

Comment:

To submit comment, enter the security code shown below and press 'Post Comment'.



Journals

Industry Market Trends ® | IMT Career Journal | IMT Fluid & Gas Flow Journal | IMT Green & Clean | IMT Machining Journal | IMT Procurement Journal

Latest New Product News | Association & Government News

Product News

Adhesives and Sealants Agricultural and Farming Products

Architectural and Civil Engineering Products

Automatic ID

Chemical Processing and Waste Management

Cleaning Products and Equipment Communication Systems and Equipment Computer Hardware and Peripherals

Construction Equipment and Supplies

Controls and Controllers

Display and Presentation Equipment Electrical Equipment and Systems Electronic Components and Devices

Explosives, Armaments and Weaponry

Fasteners and Hardware Fluid and Gas Flow Equipment Food Processing and Preparation Green & Clean

Health, Medical and Dental Supplies and Equipment

HVAC

Labels, Tags, Signage and Equipment

Laboratory and Research Supplies and Equipment

Lubricants

Machinery and Machining Tools Material Handling and Storage Materials and Material Processing Mechanical Components and Assemblies

Mechanical Power Transmission Mining, Oil Drilling & Refining Mounting and Attaching Products

Non-Industrial Products Optics and Photonics

Packaging Products & Equipment

Paints and Coatings

Plant Furnishings and Accessories

Portable Tools

Printing and Duplicating Equipment

Retail and Sales Equipment

Robotics

Safety and Security Equipment Sensors, Monitors and Transducers

Services

Software

Test and Measuring Instruments **Textile Industry Products**

Thermal and Heating Equipment

Timers and Clocks

Transportation Industry Products

Vision Systems

Waste Handling Equipment Welding Equipment and Supplies

Press Releases

Products in the News | Company News | Mergers & Acquisitions | People in the News | Literature & Websites

Resources

RSS JS | FABTECH | SME | Browse Categories | Browse Companies | Mobile Edition News Delivery Options PR Resources | Licensing | Advertising | Call for Contributors, Guest Writers and Submissions | How to Write an effective Press Release Trade Associations

Home | My ThomasNet News® | Industry Market Trends® | Submit Release | Advertise | Contact News | About Us



Brought to you by Thomasnet.com

Browse ThomasNet Directory

News provided by ThomasNet News® (TNN). TNN is a comprehensive source of new and timely product information in the industrial marketplace. TNN supplies new product information to the web sites, e-marketplaces and print publications that serve the industrial marketplace. For press release submissions please go to http://news.thomasnet.com/submitpr.html. BY ACCESSING, BROWSING AND/OR USING THIS WEB SITE AND/OR ANY WEB SITES PROVIDED BY ProductNews.com, YOU AGREE TO BE BOUND BY THE TERMS OF USE AGREEMENT.

> Copyright © 2013 Thomas Publishing Company. All Rights Reserved. Terms of Use - Privacy Policy