



# UV Disinfection: A Proven Technology

## Reduce Energy Consumption

According to the 2012 ASHRAE Handbook, through the use of UV-C, heat transfer and airflow are restored which results in energy savings, with the possibility of payback in less than two years.

## Reduce Maintenance & Cleaning

Per the 2012 ASHRAE Handbook, chemical and mechanical cleaning of air conditioning coils and drain pans can be costly, dangerous, and even difficult. Applying UV-C light can help maintain system cleanliness by keeping surfaces free of microbial contamination.

## Eliminate Mold, Bacteria & Viruses in the HVAC System

UV-C light appears to be an effective way to lower the risk of infection in the operating room during total joint replacement surgery.

Source: The Journal of Bone and Joint Surgery (American), 2007.

## Reduce Ice Machine Maintenance

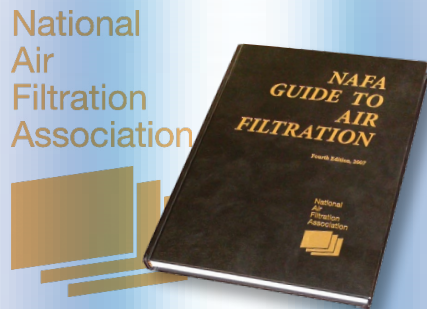
Field studies confirm that the Fresh-Aire Ice UV system™ reduces biological contamination in ice machines.

Source: Independent Certified Indoor Environmental Consultant Field Study, Summer 2008.

UV light technology has been recognized for its benefits and energy savings in the following industry and government handbooks:



**ASHRAE**  
2012 HVAC Handbook, Chapter 17,  
"Ultraviolet Air & Surface Treatment"



**National Air Filtration Association**

**NAFA**  
2007 Guide To Air Filtration,  
Fourth Addition, Chapter 14



**USGSA**  
2003 Facilities Standards for the Public Building Service, Chapter 5.9.  
*Since 2000, in every GSA-funded new construction project, GSA requires UV light to be applied to all coils and drain pans of every HVAC system.*

## Maintain Peak System Efficiency

As stated by the 2012 ASHRAE Handbook, UV-C light makes it easy to maintain heat exchange efficiency, design airflow and to improve indoor air quality.

## Cut Airborne Biohazards

The Centers for Disease Control recognizes UV-C as a viable means for the reduction of tuberculosis and in reducing the transmission of other infections in hospitals, military housings and classrooms.

Source: CDC, October 1994.

A microbial analysis of 54 air conditioning units at nine schools in California indicated a notable reduction in the levels of microbial growth on the evaporator coils; and total fungal and gram positive bacteria reductions were from 65 to 100% of colony forming units.

Source: A report prepared for the California Energy Commission, June 2006.



**Meets LEED Accreditation**

**Saves Money By Increasing Air System Efficiency**

**Improves Indoor Environmental Quality**

**Increases Equipment & System Longevity**



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