

We Defend Your Patients & Staff Against Hospital Acquired Infections.



American Green Technology® introduces the unique, patented AGT Arcalux® Health Risk Management System for the healthcare industry. AGT Arcalux® uses **differential pressure, filtration, purification, and dilution**, to simultaneously and unobtrusively neutralize up to **99%** of pathogens (including bacteria, viruses and fungi) **24** hours a day at room level requiring only simple, annual maintenance.

Employing CDC's recommended hierarchy of controls, Arcalux® eliminates pathogens at the source to enhance patient outcomes, to significantly reduce administrative, clinical, and operational costs.

What Are **HAI's**?

Healthcare Acquired Infections (HAI's), are infections acquired by patients, staff, and visitors in healthcare facilities that result from contaminated air and/or surfaces. Additionally, such infections can occur in schools and long term care facilities.

The **Problem**

- + 1.7 Million HAI's Annually
- + 99,000 HAI Fatalities in the U.S. Alone
- + 4th Leading Cause of Death:
More than Breast Cancer, AIDs, and
Auto Accidents **Combined.**

The **Solution**

- + UVC Radiation Chamber
- + 24 Hour Continuous Protection
- + Up to 4 Air Changes per Hour
- + Average 97% **First Pass** Kill Rate
- + Unique, Patented , Effective



The Arcalux® HRMS is the only system to continuously eliminate airborne pathogens, save patient lives, and healthcare dollars 24/7.

1 PRESSURE

Differential Pressure creates a directional airflow to isolate contaminants in the UVC radiation chamber. Adequate duration and intensity of the UVC achieves up to 97% kill rate in a single pass.

2 FILTRATION

A Merv 6 filter removes large dust particles to ensure optimal performance of the fans, UVC lamp, and optics. Contaminants pass through the filter to the eradication chamber.

3 PURIFICATION

Continuous, 24/7 operation cleans the air up to 4 times per hour. Arcalux® is up to 99% effective in neutralizing nosocomial pathogens.

4 DILUTION

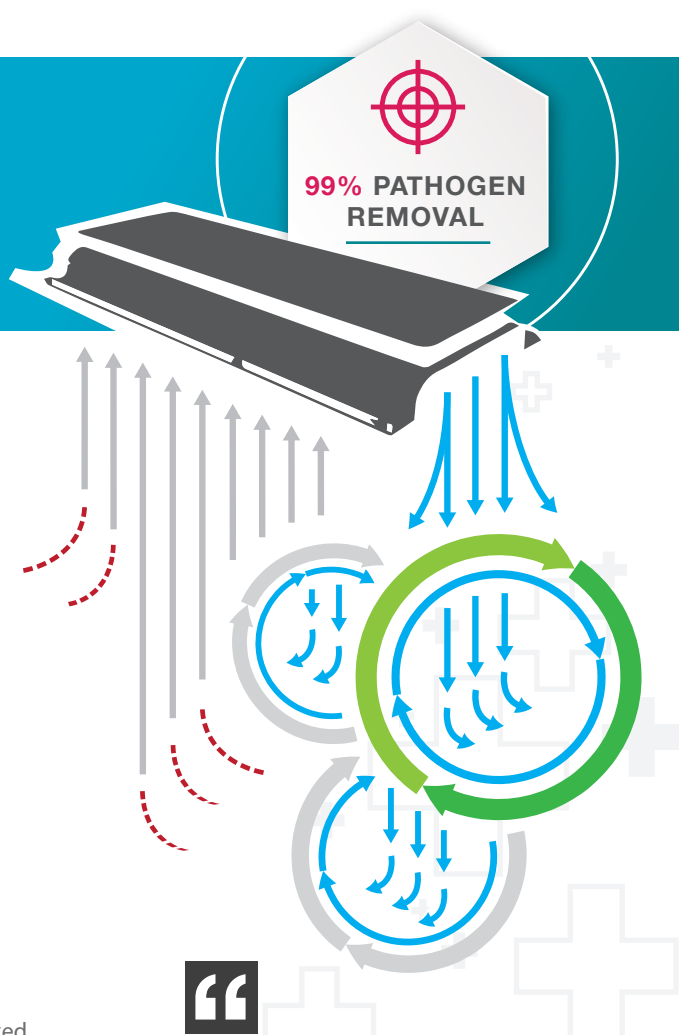
Continuous purified air changes are crucial to reducing HAI risks. Pathogens are attacked at the source, silently, effectively, and continuously to reduce HAI's.

OVERVIEW

- A single Arcalux® fixture will purify the air in a 10' x 10' room, with 8' ceilings, once every 16 minutes (that's almost 4 times an hour).
- This room-level purification system utilizes the patented Arcalux® Smart Fixture lighting system as the delivery platform to irradiate with optimal zonal ventilation and re-circulate air to every corner of the room.
- The AGT Arcalux® Health Risk Management System unobtrusively increases patient outcomes, reduces operational costs, saves energy and most importantly, saves patients' lives.

FIXTURE FEATURES

- + Easy to install.
- + Does not upset current HVAC system.
- + Arcalux® uses differential pressure that does not affect HVAC air pressure balance.
- + Reduces the risk of Hospital Acquired Infections (HAI).
- + Energy efficient system uses less than 100 watts of power.
- + Tool-less maintenance of lamps, filter, and ballast.
- + Eliminates up to 99% of HAI causing pathogens.



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The superior performance of the Arcalux® HRMS will enable high levels of air disinfection to be achieved as well as a consequent reduction in the risk of airborne nosocomial infection in any healthcare environment.

Dr. Wladyslaw Kowalski

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CONTACT US TO LEARN MORE @
1 (269) 340-9975

