# STERILAIRE

World Leaders for Retail UVC

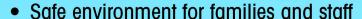
STERIL AIRE



### **How Steril-Aire Benefits Shopping Malls**

#### INTERIOR ENVIRONMENT

### Improved IAQ



- Air from AC System up to 99% free of bacteria and viruses\*
- Reduction in staff sickness and absenteeism\*\*
- Reduction in distribution of customer germs / influenza \*\*
- Partial Pandemic protection \*\*\*
- Reduction in VOCs & odours\*
- Control of recirculated food court odours\*
- Partial protection against Legionnaire's disease

### SE Fixture and UVC Emitter®

DE Fixture and UVC Emitter®

### **FACILITIES** \*\*\*\*

### **Automatic coil cleaning**

- Reduced AC maintenance
- Reduction of maintenance labour & chemical costs
- AC energy saving (10-20%)
- Reduction in carbon footprint
- Coil Condensate Recovery/Recycling

### **Extension of equipment life:**

- Coil
- Chiller



Steril-Zone Ceiling Mounted Unit

- \* Subject to UVC Dosage applied
- \*\* See Case Study: McGill University, Montreal, Canada
- \*\* ASHRAE Airborne Infectious Diseases Position Document
- \*\*\* Use of Steril-Aire UVC at Tan Tock Seng Hospital at height of SARS pandemic (2003)
- \*\*\*\* See Case studies at www.steril-aire.com



Steril-Zone™

Unitary Kit

### Retailers Use of Steril-Aire UVC











### **HVAC** system

- AHUs
- Fan-coils
- Splits
- Wall Package Units
- Unit Ventilators
- Heat Wheels
- Air Curtains
- Refrigeration

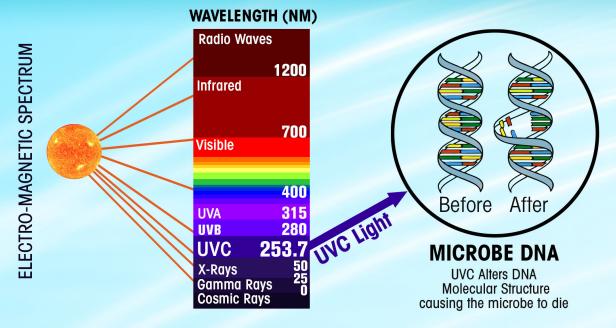
### Locations

- Public Areas
- Stores
- Food Courts & Restaurants
- Restroom
- Elevators
- Family Play Areas
- Cinemas
- Cold Storage
- Waste Disposal Areas
- Grease Traps
- Offices
- Extracts
- Cooling Towers

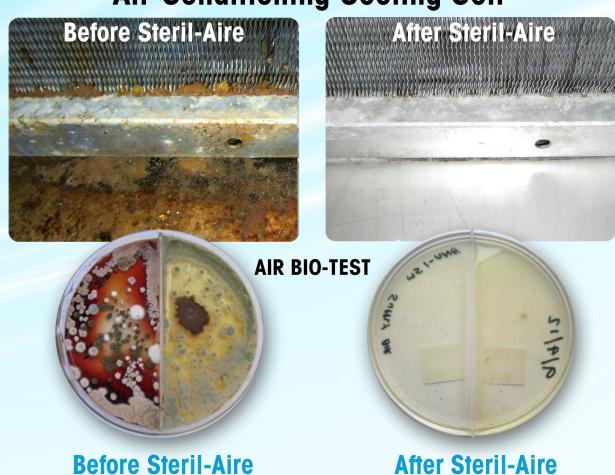
### In Room

- Steril-Zone
- Ceiling Mounted (Only for use when room is unoccupied)

### The Science of Steril-Aire UVC



### **Air-Conditioning Cooling Coil**



### **Steril-Aire UVC Products**

Full catalogue at www.steril-aire.com

### **DE SERIES UVC EMITTER®**

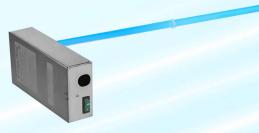


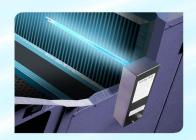




- For use in medium to large AHUs.
- Double-ended Emitters are mounted internally and fitted end-to-end to fit any size coil.
- Available in: 18", 24", 30", 36", 42", 62" inch lengths (46, 61, 76, 91, 107, 157 cm lengths).
- Universal power-supply. 110 to 277V 50/60 Hz

### **SE SERIES UVC EMITTER®**







- For fan-coils, heat-pumps, unit ventilators, packaged AHUs, terminal units, and ducts.
- Mounted on exterior of AHU. Tube installed through a one-inch hole (2.54 cm) drilled through the AHU casing.
- Available in 12",16", 20", 24", 30", 36", 42" inch lengths (30, 41, 51, 61, 91, 107 cm lengths).
- Universal power-supply: 110 to 277V- 50/60 Hz
- Also available as an internally mounted kit with 12" to 61" (30 to 155 cm) SE Emitter tubes.

### SEN SERIES UVC EMITTER®







- For exteriors including roof-top units, AHUs, heat-pumps, fan-coils, terminal units, and ducts.
- NEMA 4 rated.
- Mounted on exterior of AHU. Tube installed through a one-inch hole (2.54 cm) drilled through the AHU casing.
- Available in 12", 16", 20", 24", 30", 36", 42", inch lengths (30, 41, 51, 61, 91, 107 cm lengths).
- Universal power-supply: 110 to 277V- 50/60 Hz

## Validation Multiple Shopping Malls Around the World

Case Studies (www.steril-aire.com)

### **Shopping Mall, USA:**

- · Zero mould growth
- 15% AC energy savings
- Air fresher and cleaner
- "Management and maintenance staff very happy"

#### Shopping Centre, Australia:

#### **AHU TEST RESULTS ENERGYWIZE:**

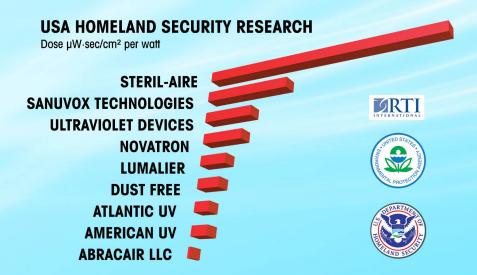
Net Cooling Capacity Gain: 62 kW. Improvement at 90 days of 48% Chilled Water Delta T: Coil Heat Transfer Efficiency Gain of 32%

"Our clients need to be certain that EnergyWize will deliver.

Steril-Aire was able to meet the core requirement of energy-saving and also provide significant value add-ons across maintenance and air quality. This has been astounding for both Energywize and our clients, enabling us to actively promote the use of Steril-Aire across all our client groups, becoming the mainstay for all of our energy efficiency projects" - Zac Gilder, Managing Director, Energywize Pty Ltd

#### **Industry UVC Acknowledgement: ASHRAE**

- Director's Letter June 24th 2009
- Chapter 17 2012 ASHRAE Handbook (HVAC Systems and Equipment)
- Chapter 60 2011 ASHRAE Handbook (HVAC Applications)



Shopping Mall, USA



Shopping Centre, Australia



Midway, Brazil



Paragon, Singapore



Westfields, Sydney, Australia



(Kitchen & Food Court Exhausts)

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