In-room HEPA Ultraviolet Air Recirculation System (HUAIRS)

- Continuous, high-volume germicidal air disinfection
- High efficiency air recirculation capacity at 14m³ without creating crosscurrents
- Maximum reduction of airborne microbial contamination
- Patented C-UVC™ Technology-mediated elimination of bacteria, viruses and spores
- State of the art photocatalytic oxidation (PCO) to eliminate VOCs and odors
- No physical plant modification required
- Small footprint and low noise
Abundant scientific evidence links airborne microorganisms to orthopedic surgical infections, primarily due to commensals such as S. aureus \(^1\)\(^-\)\(^^3\)

![Graph showing positive correlation between SSI incidence and airborne bacterial counts](image)


Reduction in airborne bacterial levels in the operating room via HEPA Ultraviolet Air Recirculation System (HUAIRS)

**Results:**
Operating room air was continuously sampled for 7 hours prior to (CONTROL) and after the deployment of HUAIRS device (HUAIRS). Airborne bacterial contamination was quantified. Results presented as bacterial counts in CFU/m\(^3\).

**Conclusions:**
Implementation of HUAIRS device in an active operating room significantly decreases airborne bacterial burden.

Kirschman, D., MD, Eachempati, S.R., MD FACS, FACCM, Aerobiotix, Inc; Airborne bacteria in the operating room can be reduced by HEPA/Ultraviolet air recirculation system (HUAIRS). Surgical Infection Society 2017.

**Product Data**
- Electronic air quality display
  - Indicates PM1.0, PM2.5, PM10
  - Temperature and humidity
- Single pass germicidal irradiation
  - 100% viruses
  - 99.97% bacteria
  - 99.91% spores
- Up to 14m\(^3\) air flow
- 8ACH in a 37m\(^2\) room
- 240VAC - standard outlet
- 64 watt internal germicidal UV-C
- Quartz germicidal chamber
- LED lamp integrity indicators
- Full steel construction
- Easily changeable disposable Performance Cartridge
- HEPA Post-Filter 61cm x 30.5cm x 30.5cm

**Air Quality Monitor**
- Real-time display
- Air particulate density
- Temperature
- Humidity

*Disposable Performance Cartridge*