

VidaShield UV24™ Air Purification System

Environmental Study Results – Lowell General Hospital, MA



The Armstrong VidaShield UV24 Air Purification System uses patented technology and filtration to draw in and treat air as it flows through a sealed UV chamber with an ultraviolet light that neutralizes mold, bacteria and viruses to improve indoor air quality. The system efficacy and performance data associated with the following study is from Medical Illumination and its VidaShield UV24 product line.

Evaluation Areas – ICU & OR Break Room

- 21 VidaShield units installed in ICU hallways and ICU patient rooms
- Controlled access/heavy traffic in the ICU
- 6 VidaShield units installed in OR break room
- Heavy contamination, closed door and lots of traffic from staff moving in and out

Study Criteria

- Determine placement and number of units (6 VidaShield units in break room per 100 sq. ft., 1 per ICU patient room and throughout hallways)
- Take pre- and post-installation air and surface samples for total bacteria counts
- Independent lab analyzed the samples

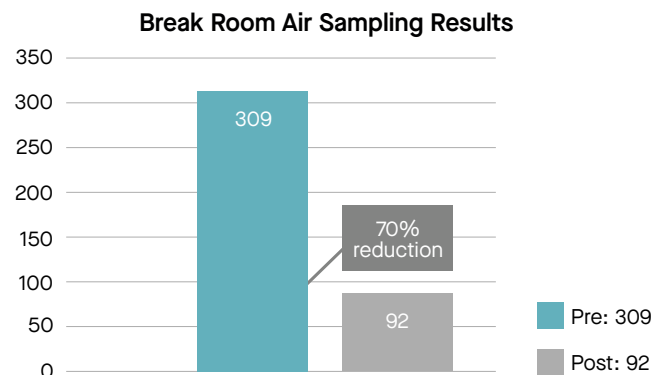
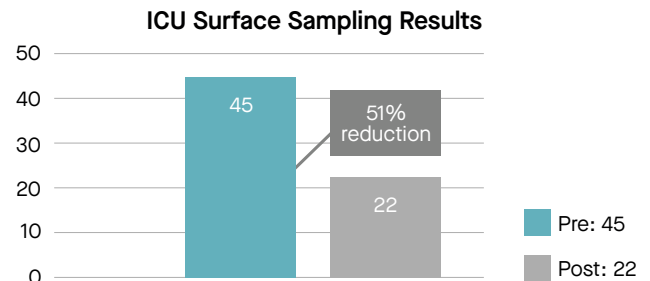
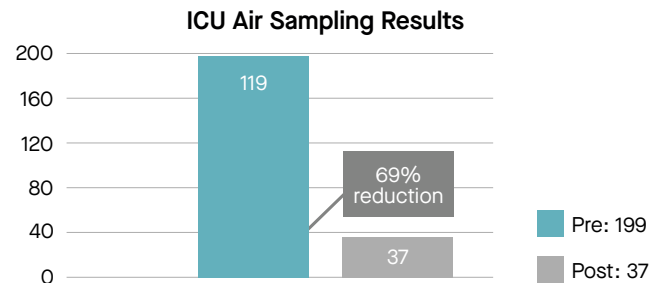
Results of VidaShield Testing

- Reduction of airborne bacteria levels in ICU: 69%
- Reduction of surface bacteria levels in ICU: 51%
- Reduction of airborne bacteria levels in break room: 70%
- Reduction of surface bacteria levels in break room: 48%

Conclusions

Environmental testing confirms that the VidaShield reduces the levels of bacteria in both the air and on the surfaces in heavily contaminated areas like an OR break room or ICU from 69-70%.

* Study conducted in January 2016
Air sampling data calculated using correction hole factor.



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