

price®

ULTRASUITE®

Operating Room Diffuser System with Integrated LED Lighting

ULTRASUITE®

Ultrasuite is a customizable air distribution and lighting solution specifically engineered for hospital operating rooms. High-output LED lighting combined with precision equalized laminar airflow eliminates the traditional "light ring", opening valuable ceiling space for surgical equipment while optimizing contaminant removal from the surgical zone. Conforming to all ASHRAE 170 requirements, Ultrasuite is the perfect combination of performance, aesthetics and efficiency.

ETL Listed



PERFORMANCE.
AESTHETICS.
EFFICIENCY.

REDUCE CEILING CONGESTION

MAXIMIZE USABLE CEILING SPACE

As technologies advance, the amount of surgical equipment in operating rooms has rapidly increased. In an effort to conserve floor space, ceiling mounted equipment has become an essential design element of modern operating rooms. The Ultrasuite dramatically reduces the HVAC footprint in the ceiling by incorporating high-performance LED lighting directly within the laminar flow diffusers.



Ultrasuite integrated light and diffuser system (80 sq. ft.)



Traditional perimeter lighting and laminar diffuser system (168 sq. ft.)

IMPROVE VISIBILITY

As minimally invasive surgery becomes more prevalent, the need for high quality, flexible O.R. lighting solutions is more important than ever. Various lighting color temperatures, flexible dimming control and integrated green lighting allow the Ultrasuite to meet the unique requirements of modern healthcare facilities. Optional green lighting facilitates improved visibility of flat panel displays for the surgeon by enhancing images while also eliminating the glare that traditional overhead white lights cast on monitors.

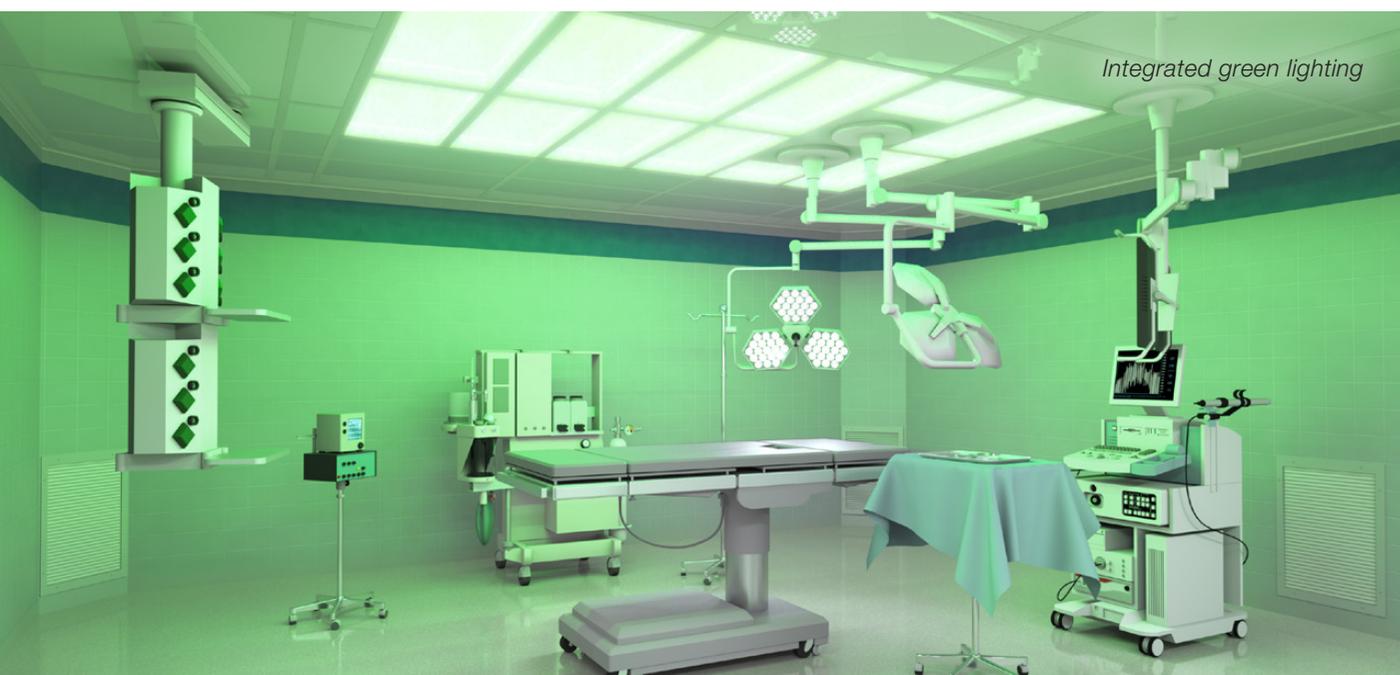
High Efficiency
100+ lm/W LED



Dimmable with
up to 300 fc



90+ CRI



ELEVATE
LIGHTING QUALITY

REDUCE SHADOWS & GLARE

IMPROVE VISIBILITY

Lighting at the surgical table is optimized with the Ultrasuite positioned directly above the patient, reducing shadows within the surgical zone. Uniquely formulated reflective powder coat and optimized baffle geometry eliminate the inconsistency in brightness typical of conventional light troffers for improved aesthetics and architectural appeal. Alternative systems utilize light grid channels between diffusers or light troffers surrounding the diffuser array that require high luminous intensity to achieve adequate lighting at the surgical table. The large light-emitting surface of the Ultrasuite provides even lighting with a low luminous intensity to improve ocular comfort and reduce glare on monitors and other reflective surfaces.

Reduced glare on operating room monitors



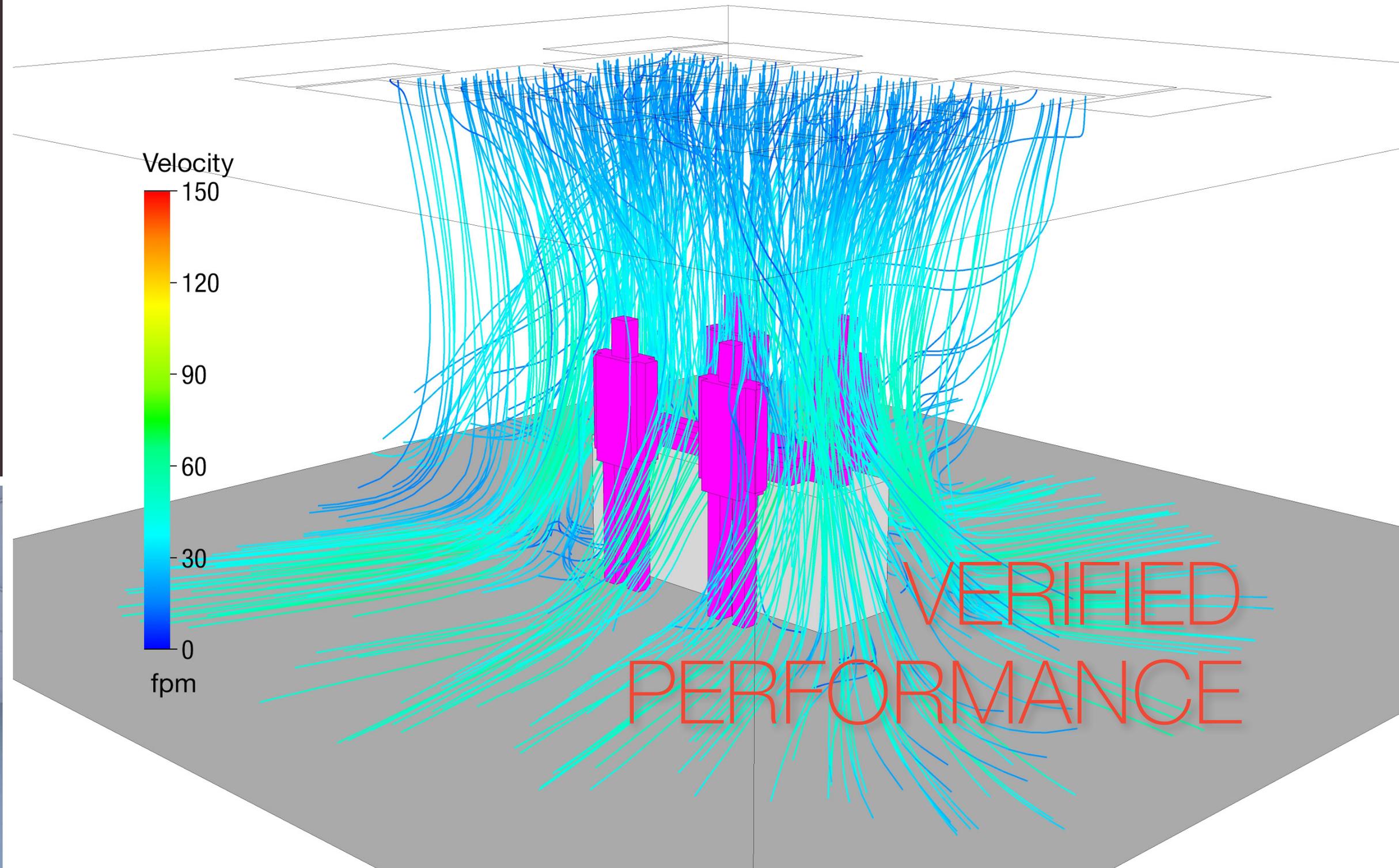
CFD OPTIMIZED DESIGN

A highly engineered dispersion baffle and translucent polymer perforated face ensure even distribution of airflow within each diffuser module, regardless of system layout or inlet location. The Ultrasuite provides uniform, unidirectional laminar airflow across the face of the diffuser, preventing entrainment of room air to ensure a contaminant free surgical zone.

Every Ultrasuite system is provided with CFD verified performance.



Airflow testing

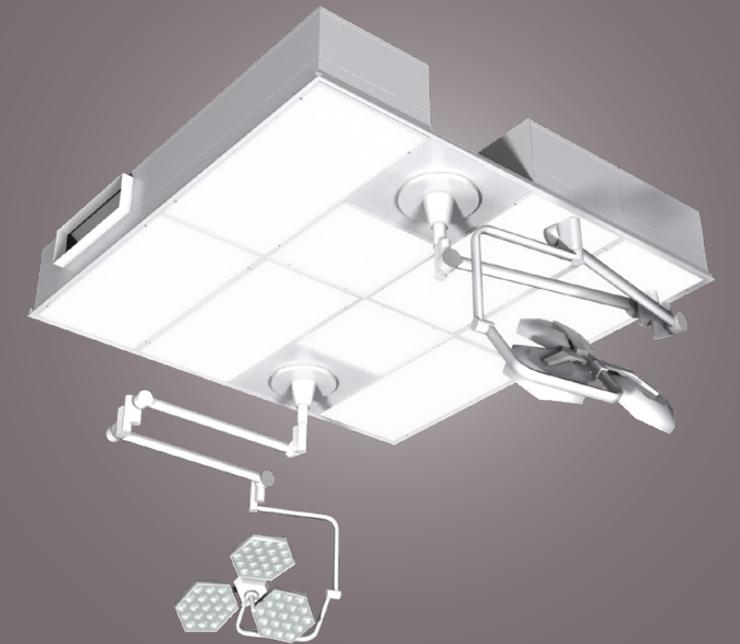
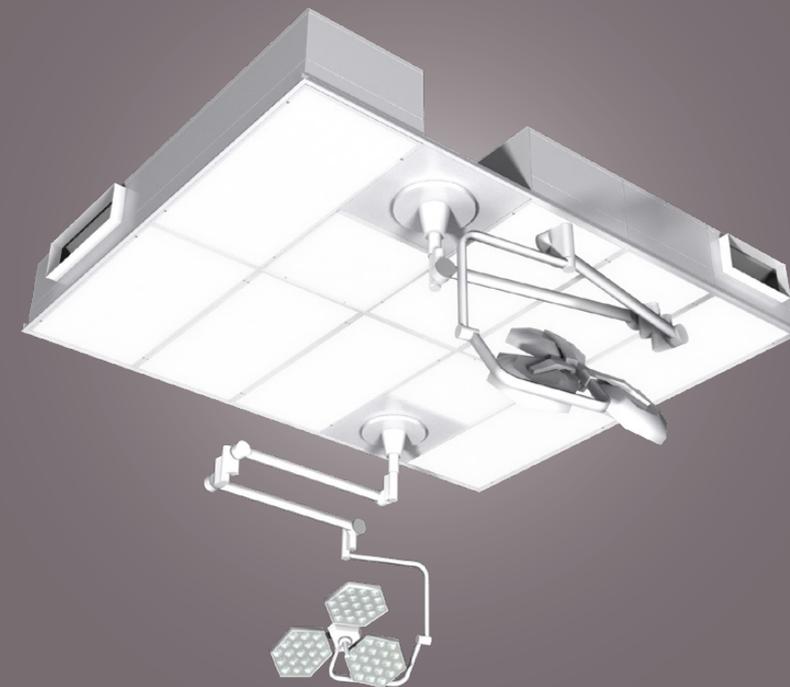
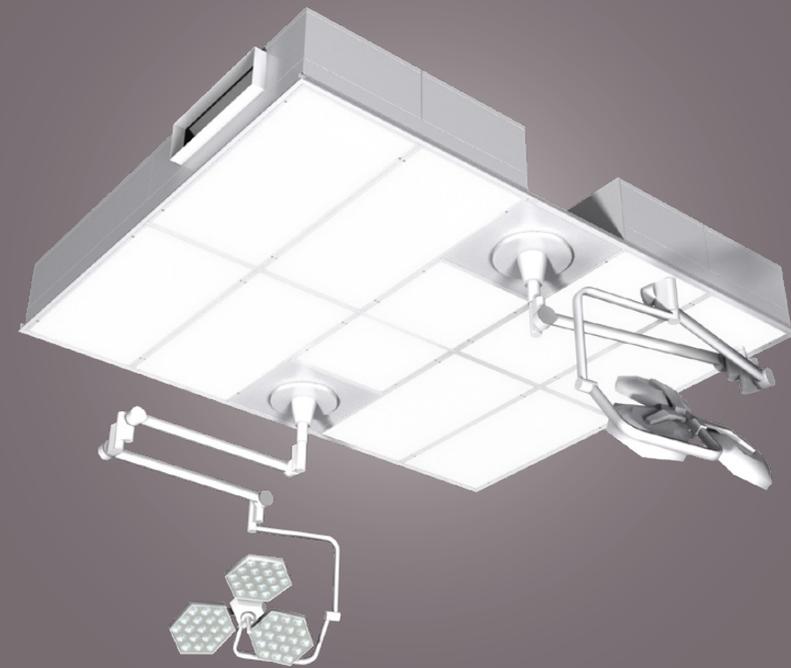
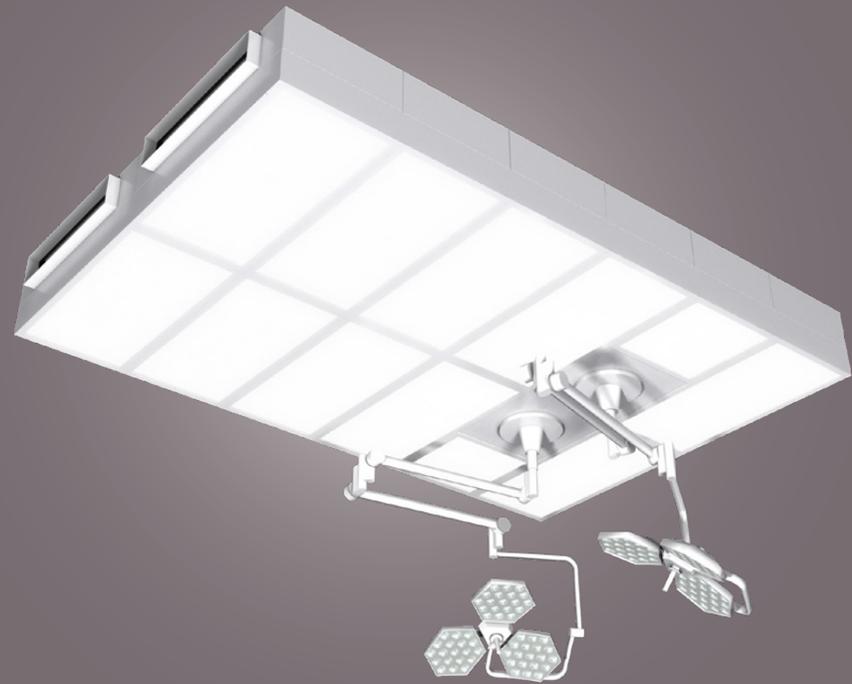


CUSTOMIZE EQUIPMENT LAYOUT

LEVERAGE SYSTEM FLEXIBILITY

The Ultrasuite makes use of a single large diffuser design, consisting of a number of laminar flow diffusers, with a 12 in. low profile common plenum.

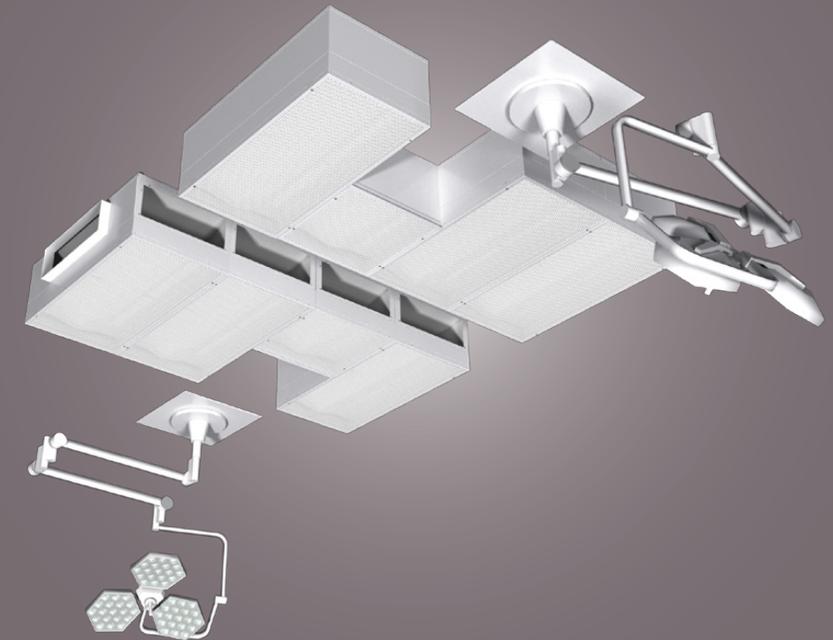
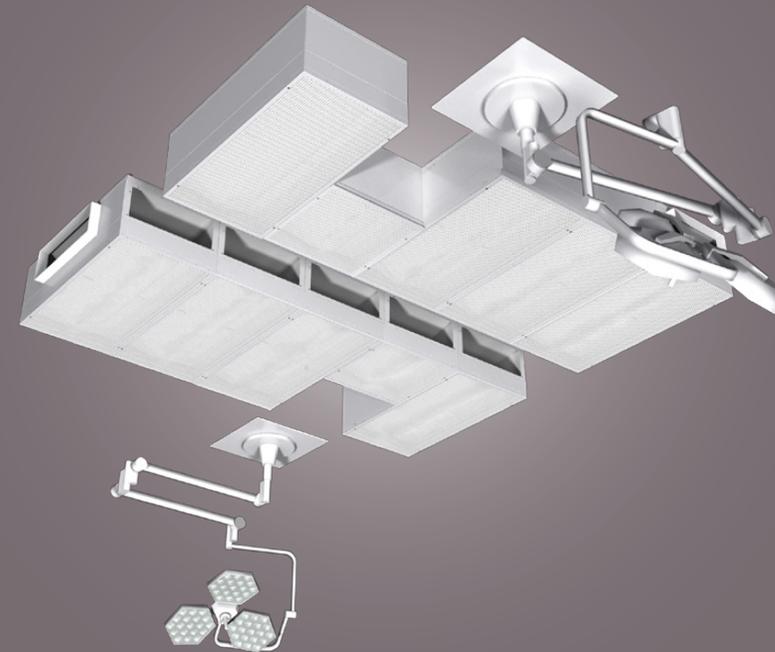
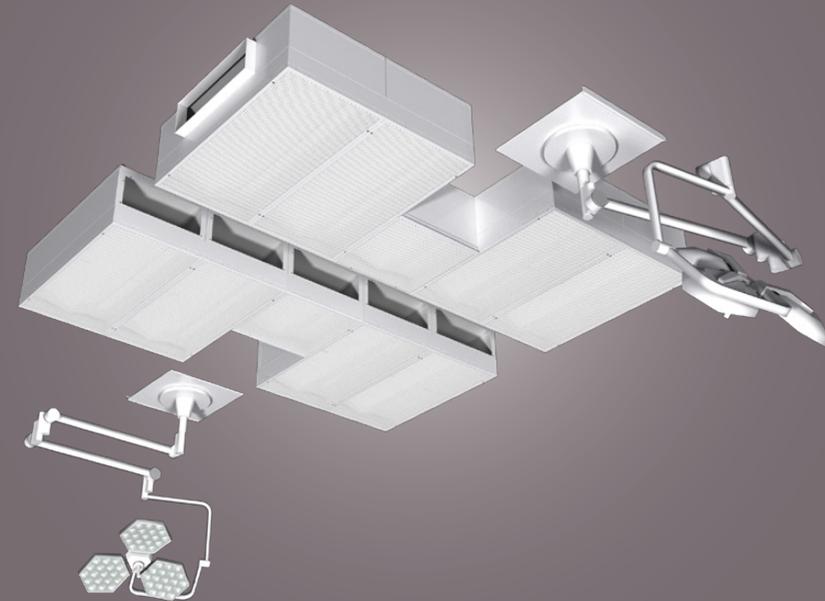
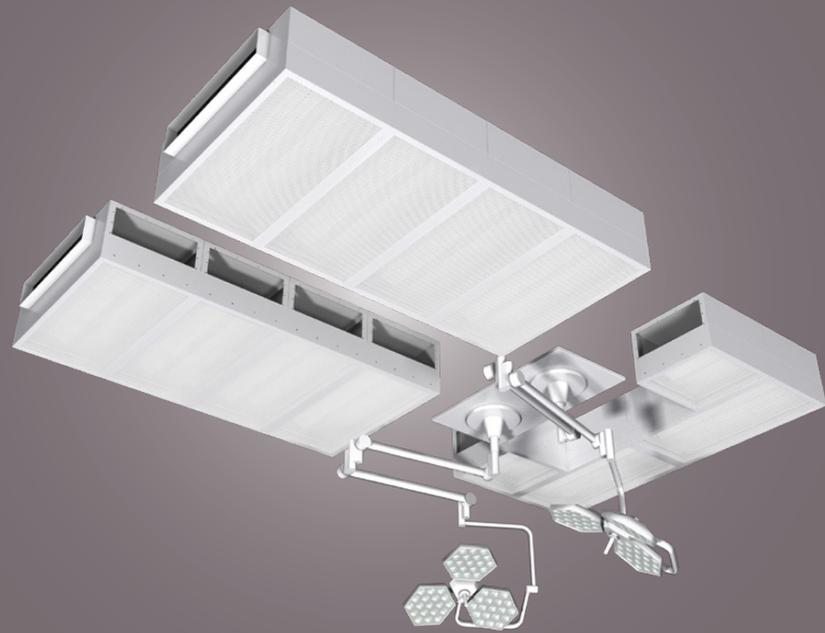
System layout is customizable with module sizes and configurations to suit any equipment layout. Inlets can be positioned on the side or top of the plenum to suit existing ductwork configurations or to optimize new construction.



SIMPLIFY INSTALLATION

With a low profile design, the Ultrasuite is easy to install in crowded ceiling plenums, making it easy to incorporate in both new construction and retrofit projects. The Ultrasuite ships in large, factory-assembled sections to minimize installation time, and the closed-cell gasketed joints ensure an effective seal between modules. Integrated balancing dampers at each module as well as factory installed and wired lighting with quick connect cables make set-up and commissioning simple and efficient. The flexible LED driver wiring allows for job specific wiring of normal and critical electrical circuits, as well as customized dimming and control solutions.

REDUCE INSTALLATION TIME



IMPROVE ACCESSIBILITY



STREAMLINE MAINTENANCE

The Ultrasuite meets all ASHRAE 170 requirements for cleanability with flush mounted, stainless steel hardware to secure the removable diffuser face. The integrated LED lighting is IP67 rated to effectively seal out dust and liquid disinfectants and the inside of the plenum is designed for ease of cleaning.

A remotely mounted control enclosure housing the LED drivers provides easy access for maintenance and replacement. High quality LED lights have a long lifespan, rated at 80% original brightness for 60,000 hours. If required, individual LED strips are easy to replace with tool-free replacement and quick-connect wiring.

IP67 Sealed LED



L80 > 60,000 hours

L80



Lighting driver cabinet

CODE COMPLIANCE

NFPA 90A-2018 Installation of Air Conditioning and Ventilating Systems

ASHRAE 170-2017 Ventilation of Healthcare Facilities

LISTINGS

UL1598 Air-Handling Luminaries

UL 2043 Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces

UL2108 Low Voltage Lighting System

UL8750 Light Emitting Diode (LED) Equipment for Use in Lighting Products

UL1310 Class 2 Power Units

UL94 Flammability of Plastic Materials for Parts in Devices and Appliances

IP67 rated Ingress Protection Against Dust and Liquids



EXTENSIVE
UL TESTING





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Ultrasuite is patent pending.