

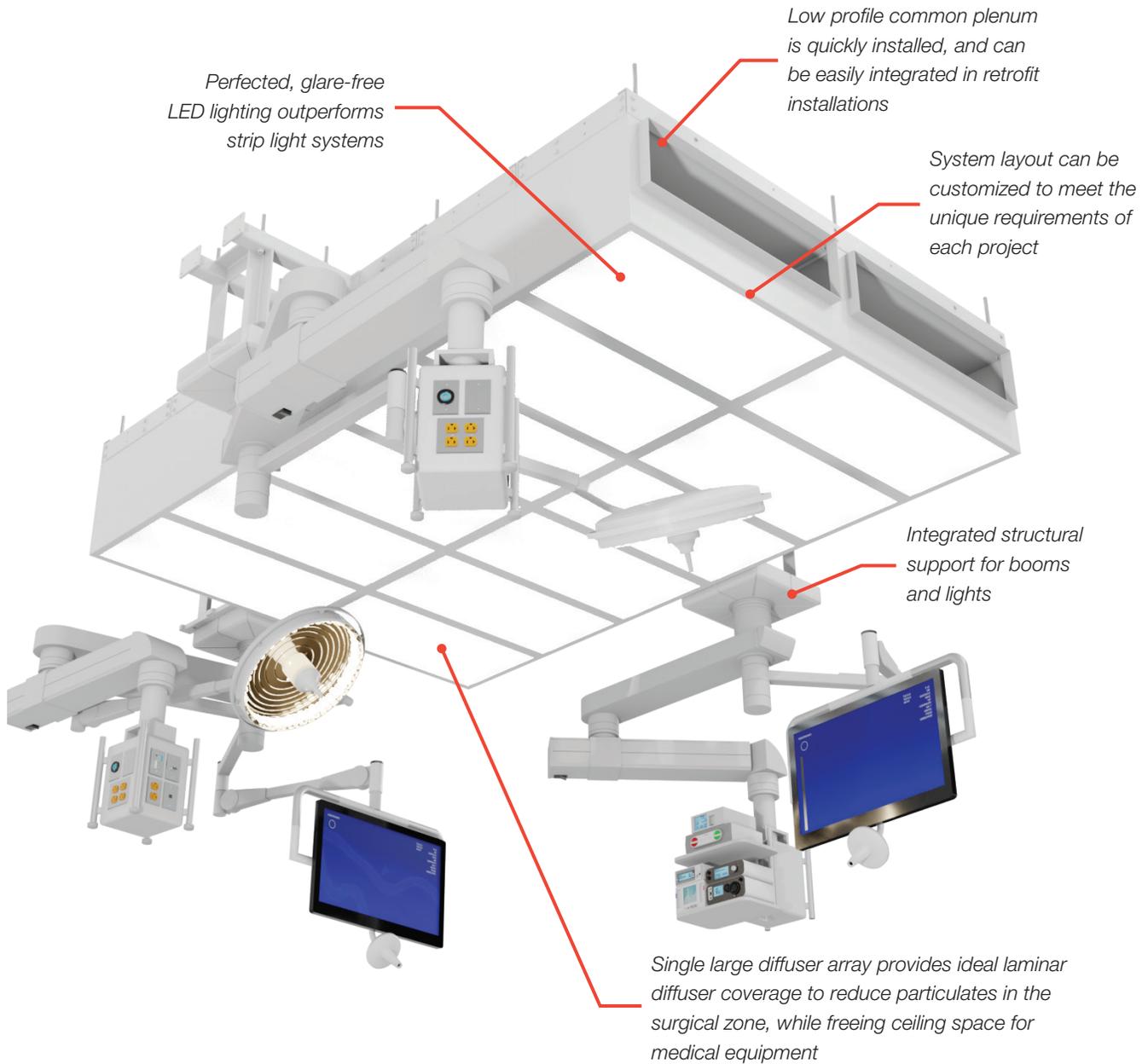
ULTRASUITE[®]

OPERATING ROOM DIFFUSER SYSTEM WITH LED LIGHTING



ULTRASUITE® Operating Room Diffuser System with LED Lighting

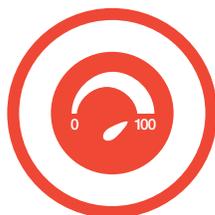
Price Ultrasuite® is a customizable air distribution and lighting solution specifically engineered for hospital operating rooms. High-output LED lighting combined with precision equalized laminar airflow eliminates the traditional “light ring”, opening valuable ceiling space for surgical equipment while optimizing particulate removal from the surgical zone. Conforming to all ASHRAE 170 requirements, the patented (pat. 10,401,049) Ultrasuite is the perfect combination of performance and aesthetics.



High Efficiency
100+ lm/W LED



L80 > 60,000 hours



Dimmable



IP67 Sealed LED



90+ CRI

THE PRICE ADVANTAGE

Easy To Do Business

Experienced design and sales teams provide unmatched service, with dedicated design assistance and field support to deliver a quality project on time.

Vertical Integration

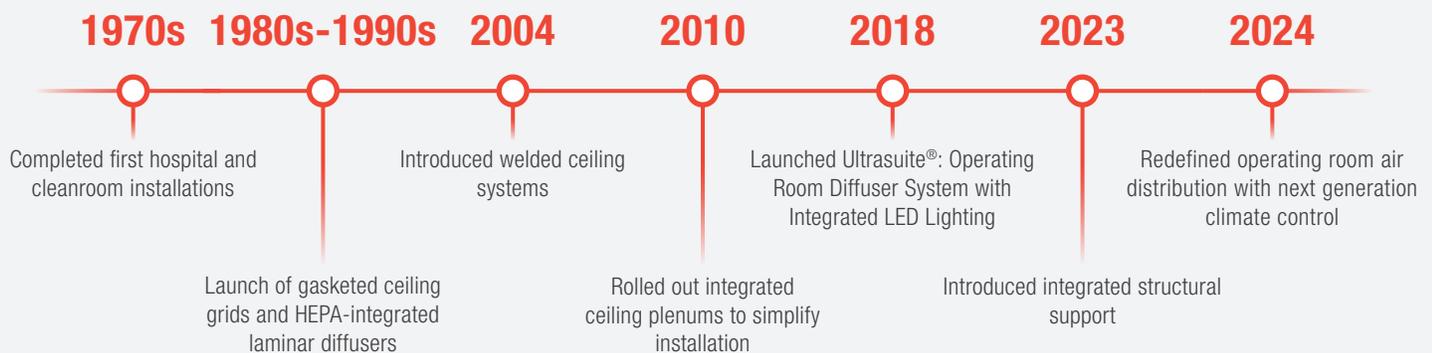
Complete control from raw materials to finished systems ensures quality, consistency, and supply chain reliability.

Perfected Lighting

Ultrasuite integrates balanced, glare-free illumination across the full diffuser array, optimizing visibility, reducing shadows, and ensuring uniform surgical lighting not possible with strip lighting systems.



TIMELINE OF INNOVATION



TRUSTED IN OVER 10,000 OPERATING ROOMS

- + Since 1949, Price Industries has been a North American leader in air distribution and critical environment solutions.
- + With a long-term foundation built on integrity, service and innovation, and through countless innovations, Price drives the market forward.

PERFECTED, GLARE-FREE LIGHTING

- + Price Ultrasuite transforms a typical laminar flow diffuser array into a high-performance combination LED light fixture and laminar diffuser by incorporating lighting within each individual diffuser module, eliminating the need for separate strip or track lighting.
- + Lighting at the surgical table is optimized with the Ultrasuite positioned directly above the patient to reduce shadows and improve luminance uniformity in the surgical zone.
- + The large, fully illuminated diffuser face delivers bright, equalized lighting across the entire array, minimizing glare on monitors and eliminating hotspots common with strip lighting.
- + Various lighting color temperatures, green lighting and flexible dimming control meet the 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.



When designing lighting to support the function of healthcare facilities, the designer should consider that **glare-free lighting improves visual acuity and reduces eye strain.**

IES-RP-29 Lighting for Hospitals and Health Care Facilities



REDUCED CEILING CONGESTION AND IMPROVED LIGHTING



Ultrasuite Integrated Lighting

- + Uniform, shadow-free illumination where it matters most
- + Fully integrated across diffuser array for consistent surgical coverage
- + Positioned above the table to eliminate dark zones and shadows
- + Balanced, glare-free lighting with no visible hot spots

Traditional Perimeter Lighting

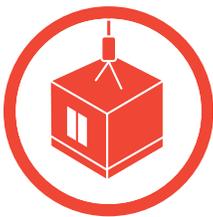
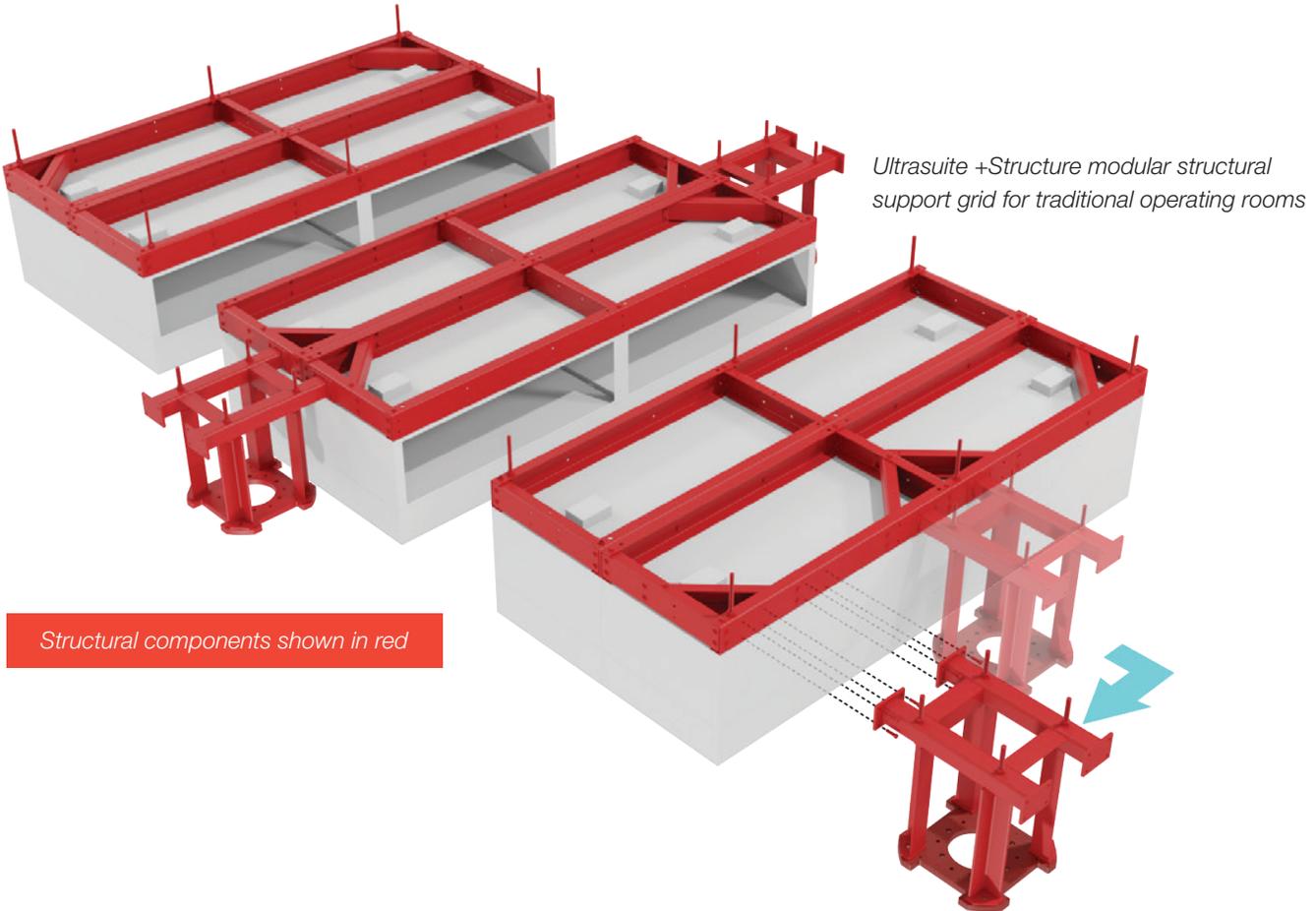
- + Uneven illumination limits surgical visibility
- + Fixtures placed outside the field create shadows at the table center
- + Inconsistent luminance across the surgical area
- + Separate lighting and airflow systems increase ceiling congestion

Competitor Strip Lighting

- + Creates hotspots and shadows across the surgical field
- + Narrow LED strips fail to fully illuminate the surgical zone
- + Small lighting surface area causes visual and functional gaps
- + Disrupts diffuser layout, reducing airflow uniformity and design flexibility

INTEGRATED STRUCTURAL SUPPORT

Ultrasuite +Structure combines strength and adaptability in a single, fully integrated support system. Its lightweight aluminum frame installs faster than traditional steel grids and modular construction enables simple field modifications, even after equipment is installed. Ultrasuite +Structure delivers seamless compatibility across surgical lights, booms, imaging systems, and more.



Ships in Large,
Preassembled
Sections



Supports OR
Lights, Booms and
Imaging Equipment



Future-Proof



Lightweight
Aluminum



Customizable

Modular, Future-Proof Structural Support

Fraction of the Weight

One-third of the weight of traditional steel systems for faster, safer installation. Pre-assembled aluminum sections reduce ceiling loading and improve maneuverability on-site.

Modular Construction

Frame adjusts in the field for easy boom mount repositioning. Flexible structure accommodates late-stage equipment changes without disrupting timelines.

Built for Integration

Engineered to integrate with all major surgical lights, booms, and imaging systems. Backed by stamped drawings and a proven coordination process.

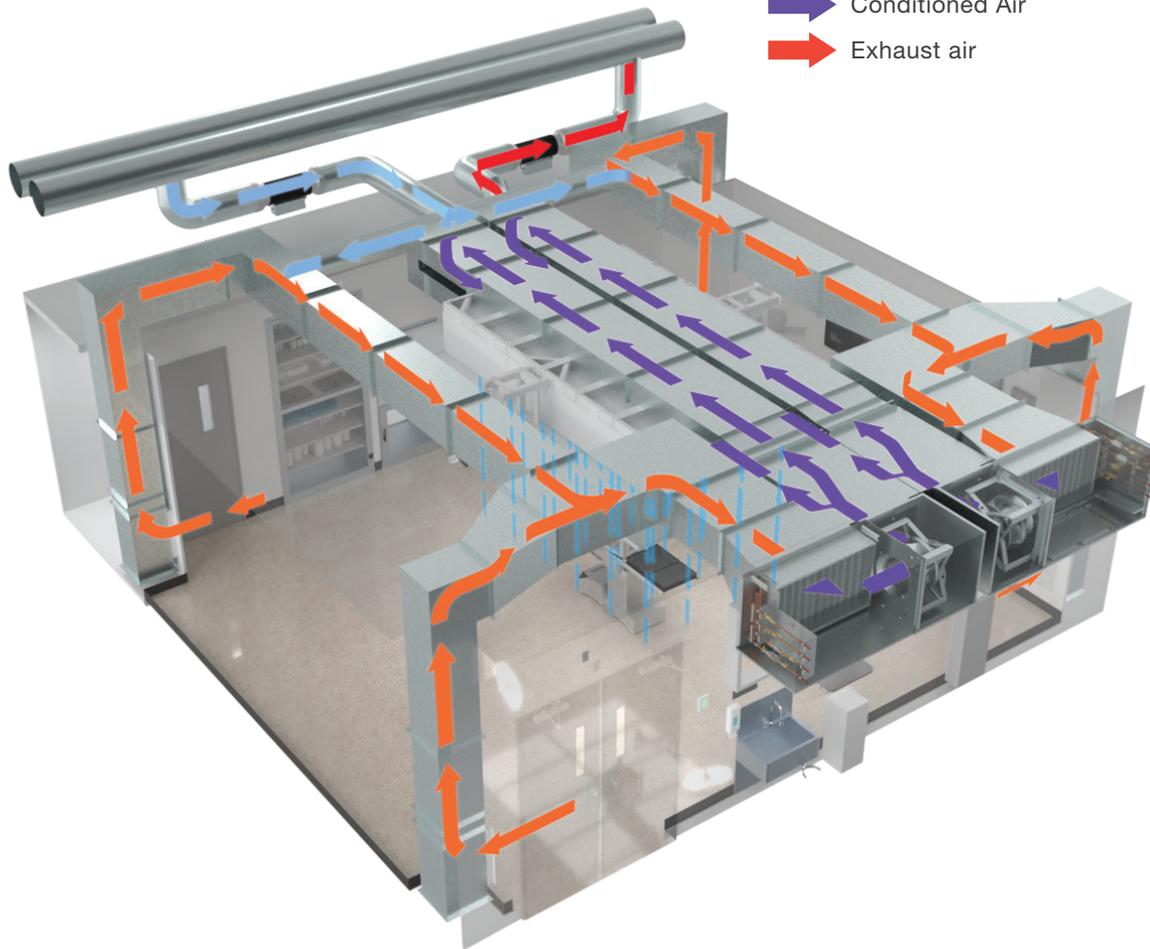


SUPERIOR ENVIRONMENTAL CONTROL

Ultrasuite +Climate optimizes indoor environmental quality by increasing the air change rate in the operating room by up to 3X the *ASHRAE Standard 170* minimum of 20 air changes per hour while meeting all other air distribution requirements.

LEGEND

-  Fresh Supply Air & HEPA Filtered Air
-  Recirculated Return Air
-  Conditioned Air
-  Exhaust air



Mitigate Surgical Smoke Exposure

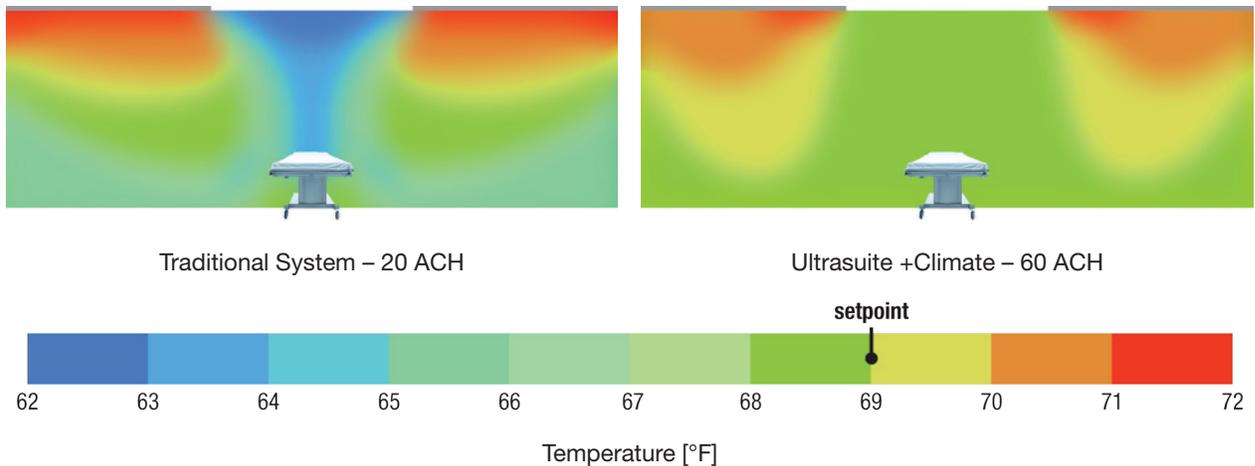
- + Airflow design pushes surgical smoke down and away from the breathing zone of surgical staff.
- + Elevated air change rates rapidly exhaust surgical smoke from the operating room.
- + Improved air quality enhances safety and comfort for the surgical team.

Optimize Project Value

- + Decentralized system design reduces the load on central HVAC systems, improving energy efficiency.
- + Factory pre-assembled components simplify installation and reduce construction downtime.
- + Single-source supply streamlines project management and accelerates timelines.

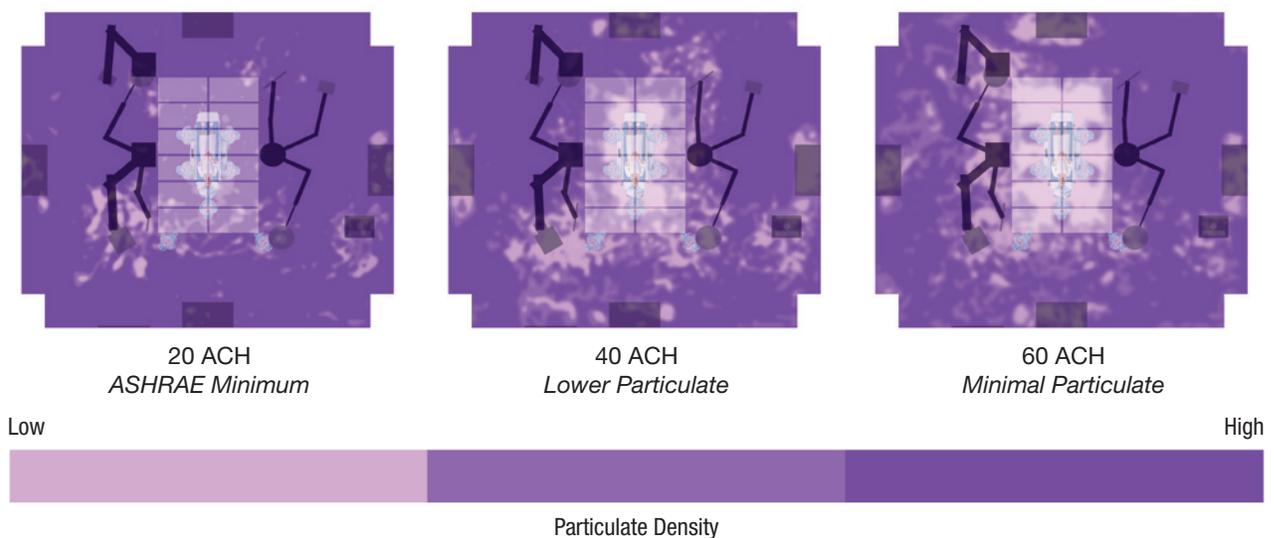
Deliver Comfort, Drive Results

- + Unlike traditional systems, increased airflow and laminar coverage unify the thermal zone across staff and patient areas - an essential contributor to procedural consistency and patient safety.
- + Dedicated HVAC equipment for each operating room provides increased air change rate and precise temperature control, reducing hot and cold spots.
- + Rapid temperature adjustments (up to 20°F in as little as 20 minutes) accommodate specific medical requirements.



Prioritize Patients, Protect Outcomes

- + Integrated HEPA filtration removes 99.99% of particulates from the airflow supplied to the operating room.
- + Increased air change rates (replacing the room air in as little as 1 minute) quickly move airborne particulates down and away from the surgical zone.
- + Reduced airborne particulates help prevent surgical site infections and protect patient outcomes.

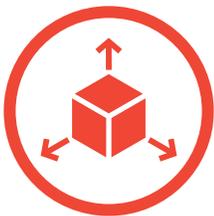


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COMPREHENSIVE DESIGN SUPPORT

- + With thousands of custom layouts completed, the process is supported through detailed drawings, coordination calls, pre-install webinars and site visits to ensure smooth execution.
- + Design of the Ultrasuite structural support grid is coordinated by the Price team and stamped drawings from a structural engineer are provided for any state/province.



CAD Files for
Construction Drawings



ASHRAE 170
Compliant



Revit Families for
BIM Coordination



Quick Layouts to Match
Project Requirements

ULTRASUITE® Operating Room Diffuser System with LED Lighting



Each layout is tailored to meet your unique project requirements and performance goals.



ULTRASUITE®

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EASY INSTALLATION

- + With and without integrated structure, Ultrasuite ships in large, factory-assembled sections to minimize installation time.
- + Detailed drawing packaged itemizes bolt-together ship sections for easy assembly.
- + Each Ultrasuite system ships with remote-mounted driver cabinets. Each driver cabinet is factory wired for single point high voltage connection. All field wiring between the remote driver cabinets and Ultrasuite is low voltage class 2 wiring.

ULTRASUITE® Operating Room Diffuser System with LED Lighting

SIMPLE MAINTENANCE

- + Ultrasuite meets all ASHRAE 170 requirements for cleanability with stainless steel fasteners and retainer cables for easy removal of the diffuser face.
- + Optional room-side replaceable HEPA filters inside each Ultrasuite module provide clean air to the surgical zone. Integrated HEPA filters feature a gel seal to prevent filter bypass and pass on-site filter integrity testing.
- + Integrated LED lighting is a sealed, IP67 rated fixture that effectively seals out debris and liquids.
- + 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 can be replaced with simple tools (ex: screwdriver) and quick connect wiring.



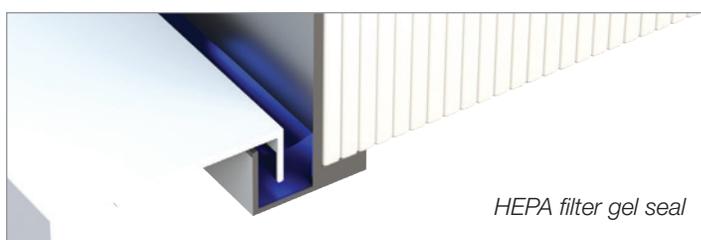
Remotely mounted LED drivers and enclosure



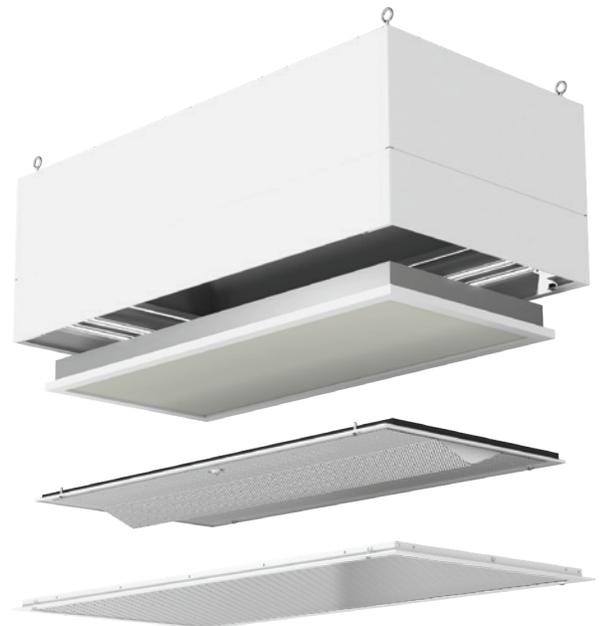
Quarter turn fasteners provide easy removal of the diffuser face



Room-side accessible balancing damper



HEPA filter gel seal



Optional room-side replaceable HEPA filter

SEISMIC CERTIFICATION PREAPPROVAL

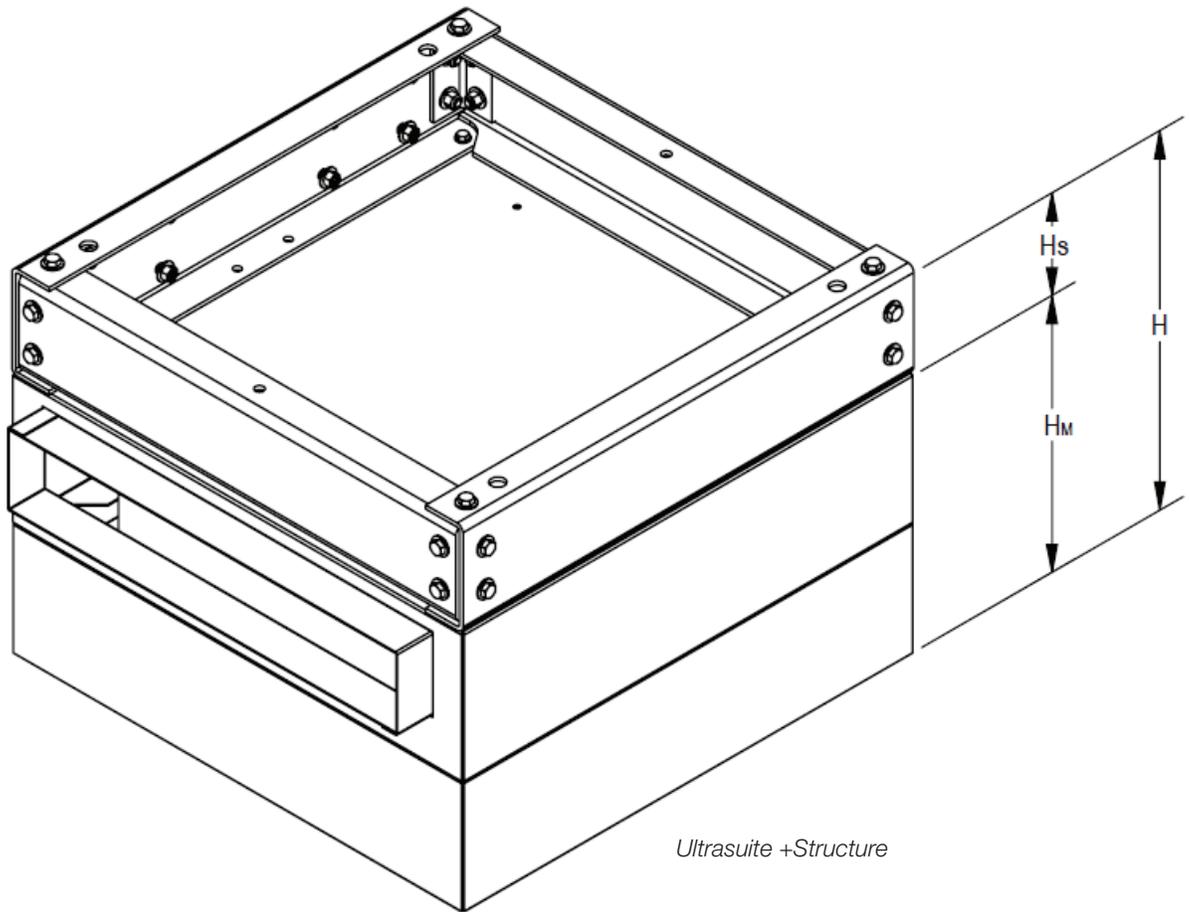
- + Optional OSHPD Special Seismic Certification Preapproval (OSP-0627-10).
- + OSHPD Preapproval signifies that the Ultrasuite has undergone rigorous testing to ensure structural integrity and functionality are maintained in the event of an earthquake.
- + Ultrasuite +Structure seismic requirements are addressed during the structural analysis that is coordinated by the Price team, therefore OSHPD Preapproval is not required.

CODE COMPLIANCE & LISTINGS

- + **NFPA 90A** Installation of Air Conditioning and Ventilating Systems
- + **ASHRAE 170** Ventilation of Healthcare Facilities
- + **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
- + **IES-RP-29** Lighting for Hospitals and Health Care Facilities



DIMENSIONAL DATA



	Module Height (H_m)				Structure Height (H_s)	Overall Height (H)			
	Min.		Standard	Max.		Min.		Standard	Max.
	Without HEPA	With HEPA			Without HEPA	With HEPA			
USA	10 in.	12 in.	15 in.	20 in.	-	10 in.	12 in.	15 in.	20 in.
USASA Modular Structure					5 in.	15 in.	17 in.	20 in.	25 in.
USA (No Lights)	7 in.	9 in.	12 in.	18 in.	-	7 in.	9 in.	12 in.	18 in.
USASA (No Lights) Modular Structure					5 in.	12 in.	14 in.	17 in.	23 in.



Product Improvement is a continuing endeavour at Price. Therefore, specifications are subject to change without notice. Consult your Price Sales Representative for current specifications or more detailed information. Not all products may be available in all geographic areas. All goods described in this document are warranted as described in the Limited Warranty shown at priceindustries.com. The complete Price product catalog can be viewed online at priceindustries.com.

Ultrasuite is patented (Pat. 10,401,049).