

SS-CARES

Stainless Steel Clean Air Room Equipment System

AiMFG.



A complete, pre-engineered, customizable ceiling system that includes everything you need.

- Air filtration and distribution
- Surgical grade LED lighting
- Structural support for hanging equipment



A complete pre-engineered ceiling system designed to meet your exact specifications

Our SS-CARES structural operating room ceiling system is designed and engineered to be completely customizable. This complete, heavy-duty system can accommodate a wide range of suspended equipment and includes all necessary lighting. We will work with you to customize a design that delivers an efficient and seamlessly integrated operating room that meets all your needs, including:

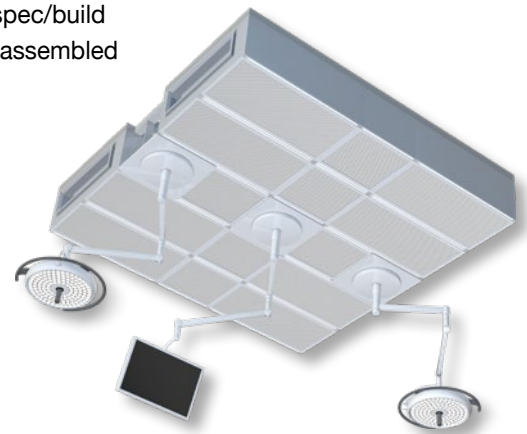
- *Air filtration and distribution – any combination of fan-powered laminar flow diffusers or standard ceiling diffusers, in any size, in any configuration*
- *Surgical grade LED lighting – tunable and dimmable energy efficient LED light strips (white or green) built into any of the diffusers*
- *Structural support – boom mounts for hanging lights and equipment can be placed in any locations, with stamped structural engineering calculations provided*

Save time and reduce construction costs – without compromising quality

Our modular, pre-engineered design dramatically reduces both design and construction time, delivering a functioning operating room much faster than the traditional design/spec/build process. Plus, because our prefabricated components can be quickly and easily assembled on site, our system can significantly reduce construction costs.

The SS-CARES not only saves time and money, but also delivers a premium quality finished product. All components are assembled in our state-of-the-art, quality-controlled factory for consistent results every time – much more consistent than with on-site construction. Our facility includes:

- *Fully automated laser cutters and press brakes for precise parts*
- *Robotic welders for perfect, long-lasting welds every time*
- *Custom-designed powder coating line for ideal coverage and durability*



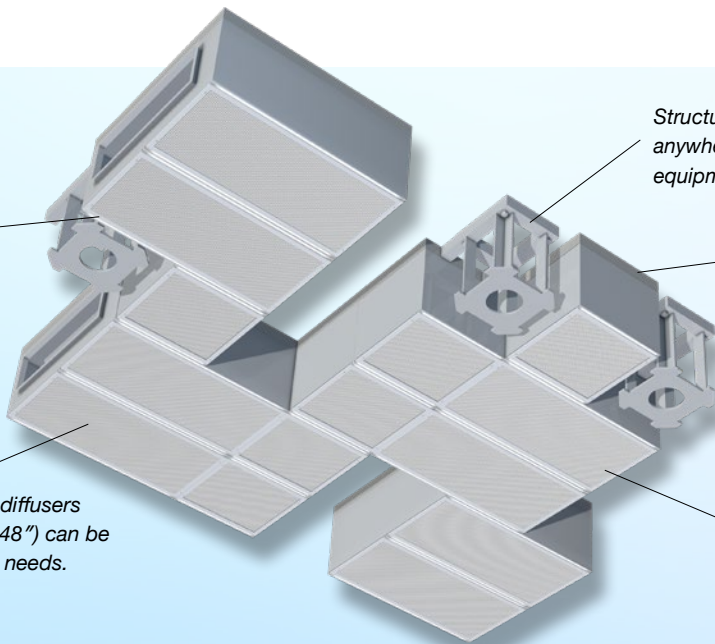
LED light strips can be built into any diffuser, providing high-power lighting without disrupting airflow.

Any combination of ceiling diffusers (24"x24", 24"x36" or 24"x48") can be customized to meet airflow needs.

Structural boom mounts can be positioned anywhere in the ceiling to support suspended equipment.

Structural steel tubing secures each component.

All diffusers can accommodate gel seal HEPA or ULPA filters.

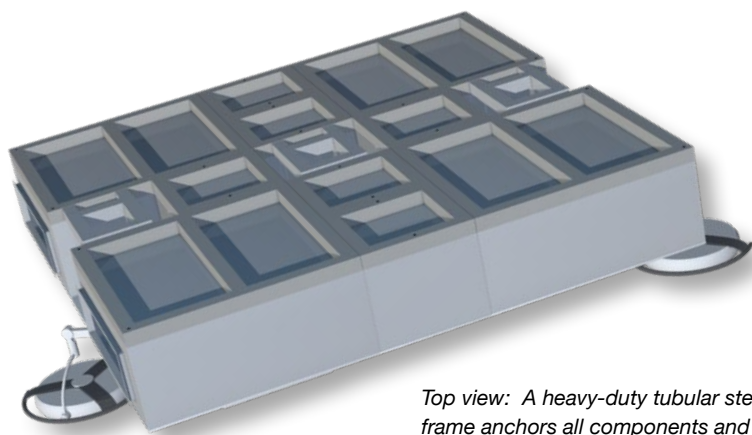




Single-source responsibility minimizes conflicts, disruptions and downtime.

With the SS-CARES system, we handle everything from design – including structural engineering calculations and drawings – to final construction, on-site supervision and all coordination with the necessary trades (electrical, fire protection, medical gas and others).

Ideal for retrofit projects, the system offers fast, quiet installation with minimal disruption to surrounding areas. All prefabricated components ship efficiently and fit easily in standard elevators and through standard doorways. The modular design not only simplifies current construction, but also future retrofits.



Top view: A heavy-duty tubular steel frame anchors all components and attaches to the building structure.

SS-CARES KEY FEATURES:

- Pre-engineered modular design
- Virtually unlimited layout options
- Exceeds ASHRAE Standard 170
- Load-bearing structural support for hanging equipment
- Includes fully executed, stamped structural engineering calculations per local requirements
- High-output, high-efficiency LED lights built into diffusers
- Room side adjustable equalization dampers
- Closed gasket joints ensure accurate seal between modules
- Fast, easy, room side access to all filters
- Walkable ceiling
- Low-profile common plenum
- All stainless steel and/or aluminum construction
- On-site supervision and coordination of trades included
- Integrates with medical gas and fire protection equipment



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The key to a high-performance OR ceiling system: AJ Laminar Flow Diffusers

Our laminar flow diffusers utilize the well-proven and time-tested concept of vertical air mass "laminar flow" technology to produce a non-aspirating, low velocity, uniformly distributed downward moving "piston" of conditioned air. Each diffuser can be ordered with or without a gel seal HEPA or ULPA filter (which can easily be replaced from the face of the unit), and with or without perimeter LED lights.

Available in a range of sizes, these diffusers can be linked together in virtually any combination to sufficiently cover the needed surgical area, producing one large combined laminar mass that flows over and blankets the operating table, helping to protect and effectively isolate the patient from contaminated air.

Key Diffuser Features:

- Type 304 stainless steel construction
- Removable faceplate for cleaning, secured by 1/4 turn fasteners
- Built-in, adjustable equalization damper for even air distribution and field balancing
- Perforated face has 3/32" (2.4mm) diameter holes on 60° 1/4" (6mm) staggered centers
- 13% free area
- Rectangle duct inlets with 1" flange for simple duct connection
- Integral earthquake hanger tabs
- Integral damper with screwdriver slot adjustment



Critical Thinking for Your Critical Environment

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