



# HARDWALL CLEANROOM





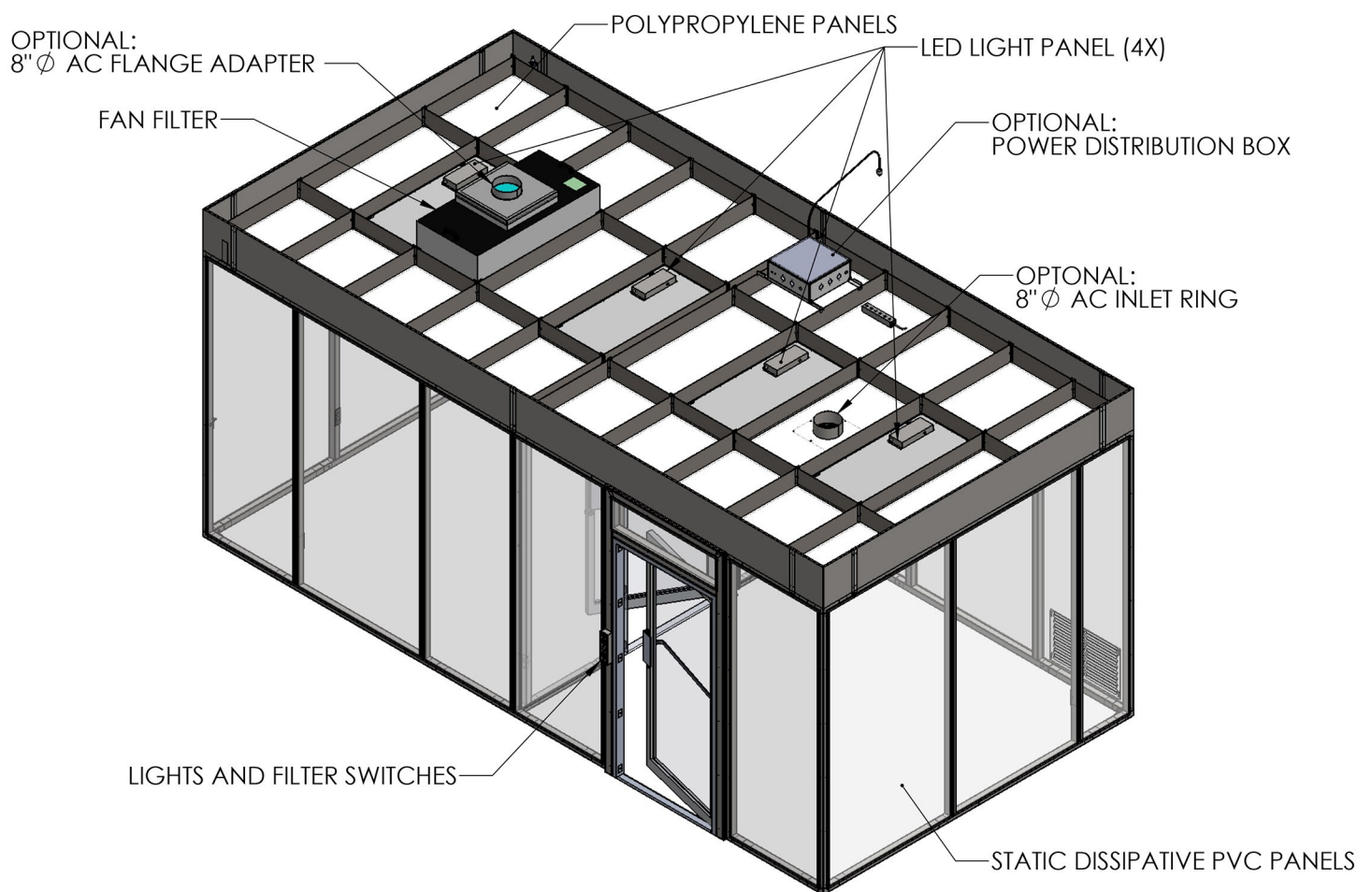
# HARDWALL CLEANROOMS

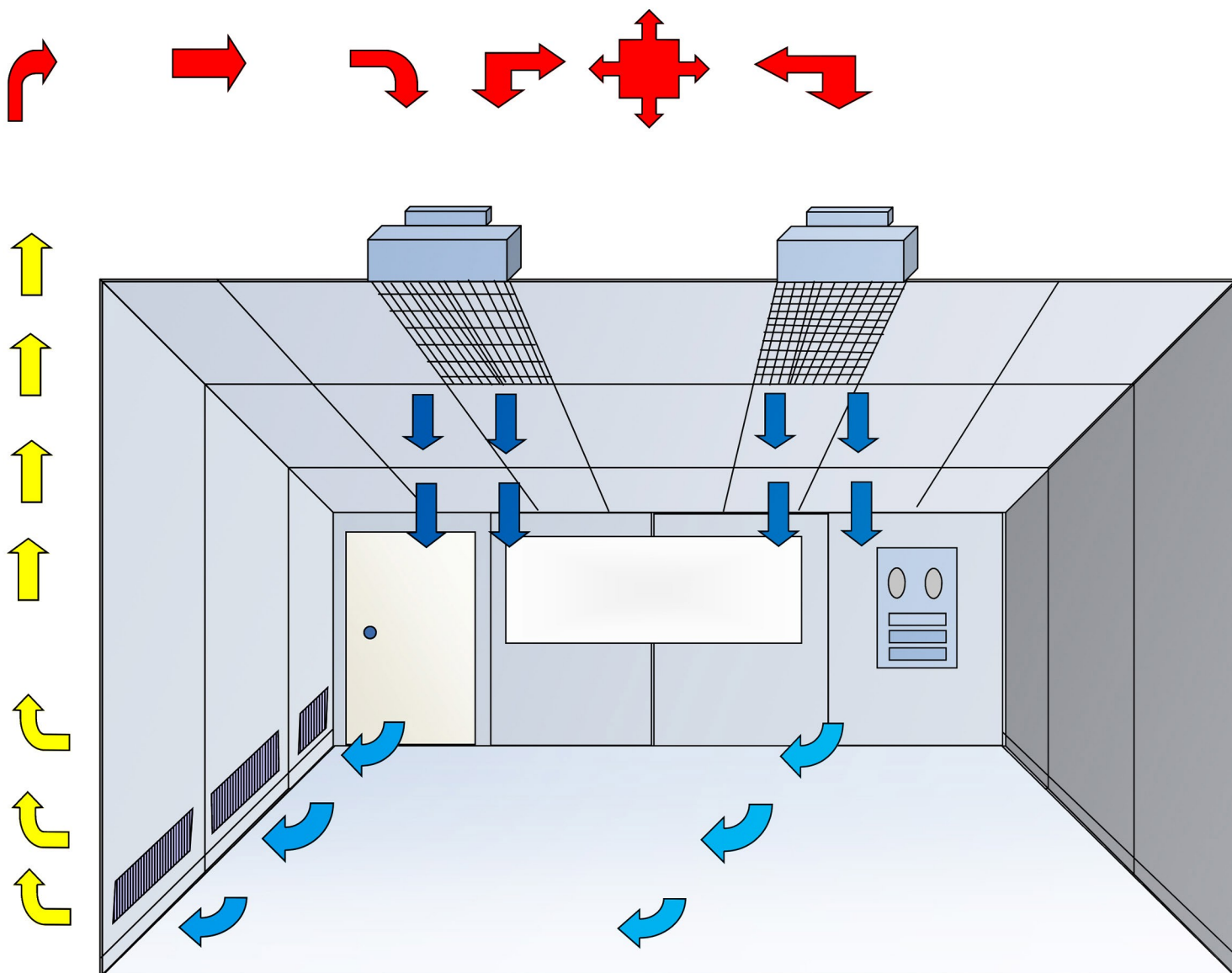
**Our Modular Hardwall Cleanrooms** provide an economical and versatile solution to clean manufacturing requirements in the semiconductor, medical device and many other industries. Unlike other hardwall modular cleanrooms on the market which require complex suspended ceiling supports, Sapphire Modular Hardwall cleanrooms are completely free-standing structures.

Our Modular cleanrooms are fabricated from heavy duty 2" square steel tubing for superior strength and powder coated for durability. Your hardwall cleanroom is pre-fabricated at the factory for a quick installation. Installation time of each unit varies depending on size and other factors. Installation instructions provided, allow the customer to install or experienced installation crews can be sent to the installation site. Sapphire Modular Hardwall cleanrooms have been designed to be portable, expandable, and easily assembled/disassembled.

Our cleanrooms are also available on an expedited program to meet your project deadlines. Your time is valuable and we're here to make your entire cleanroom project run smoothly, completed on time and in budget.

Components include Wall Panels, ceiling panels, lights and Filter/Fan Modules, as well as accessories and options.





 Clean Air
  Dirty Air



## Standard:

### Fan Filter Units (FFUs)

#### Extra Low Watts of Sound and Profile

Was the first standard (FFU) that combine low sound, low watts and a low profile. Measuring only 51 DBA (2 ft x 4 ft [600 mm x 1,210 mm]) provides one of the lowest sound levels of any FFU in the industry. Running at only 310 watts @ 90 fpm, the unit uses less energy than traditional FFUs, lowering operating costs. It maintains a low profile, measuring less than 13" (330 mm).

**Optional RSR unit has the filter sealed to the unit using the knife edge/gel seal construction, allowing the filter to be replaced from the roomside.**



### LED Lighting

Complete sealed housings flush with grid lens frames, gasketed lenses and uniform lighting making this CGE Series ideally suited, where contamination free environment must be achieved at a lower cost. No Reflector, 120-277V Universal. **LED & explosion-proof lighting available**

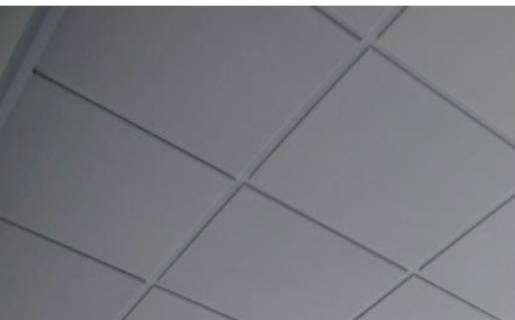
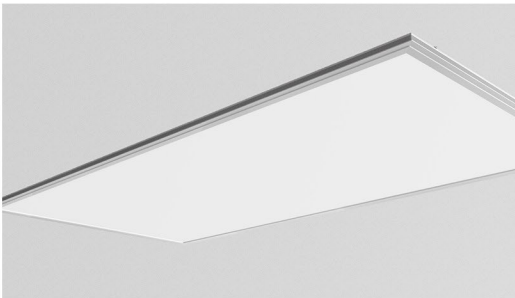
### Features

- Sealed, painted white, 20 gauge housing seals to grid 2' X 4' nominal Housing size. Same housing fits 1" and 1-1/2" ceiling lens frame is flush with T-Grid and seals to Housing Lens is gasketed to extruded lens frame suitable for Class 1,000 - Class 100,000 Cleanrooms.
- Low brightness lens installed smooth side to room. No tools required to open lens frame for relamping.
- Manufactured in accordance with NSF, FDA, USDA and Federal Standard 2090.

### Ceiling Panels

Ceiling grids with no FFU or Light are covered with white polypropylene panels which can be removed if needed.

**Other Material Options Available.**





## Walls Panels

Hardwall panels are fabricated of any plastic material customer needs: SD PVC, polycarbonate, polypropylene, acrylic, Stainless Steel, etc. Wall panels standard dimensions are 4' x 8' H.

Wall Panels are externally or internally mounted to framing depending on customer's needs. External mounting is standard on all cleanrooms.



## Access Door

Available in swing, sliding, interlocked and emergency models, single or double options.

## Optional:



Power Distribution Box (PDB) dramatically simplifies the connection of Fan Filter Modules (FFUs) and ceiling lights while providing low-voltage power for one or more control panels.

Up to 5 FFUs/lights can be connected to each PDB.



Control panel integrates control of system components in a single panel mounted at the main entry. Standard model includes ON/OFF switch & magnehelic gauge.

**Digihelic Gauge, Air Care Monitoring System available.**



You can select among swing and sliding doors with stainless steel or aluminum frames.

Panels: Acrylic, SD PVC, Polycarbonate, polypropylene, tempered glass. Other configurations include roll-up designs, sensor activated, touch screen. Security doors.



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