

Custom Air Handling Solutions

1,000 to 400,000+ CFM



Why Huntair®



Since 1993, Huntair's innovative, custom air handler solutions and FANWALL TECHNOLOGY® have reengineered how we move air. Huntair specializes in HVAC systems used in mission-critical applications, including semiconductor, biotechnology and pharmaceuticals manufacturing, data centers, aerospace, hospitals, and extremely sensitive applications including cleanrooms.

All HUNTAIR air handlers are custom and built to deliver the performance you need for your unique application – providing exceptional value while giving designers the ultimate in flexibility when solving any HVAC design problem.

Offering a broad range of options with units ranging from 1,000 – 400,000+ cfm, we customize the solution to meet your indoor or outdoor application needs for new construction, renovation, and repair projects.

Custom Solutions For Your Needs

Huntair builds innovative, dependable custom air handlers that help you create the right indoor environment and gain a return on your investment.

Our design and manufacturing expertise coupled with flexible packaging options: fully assembled, shipped in sections, or transported in pieces, helps to reduce installation time and costs for our customers, while minimizing building disruptions.

Innovations

Our green ideas are scalable to match your sustainable design needs. Several of Huntair's differentiating innovations include:

FANWALL TECHNOLOGY®

A multiple fan array increases the system reliability by allowing you to build back-up fan capacity into the design, while allowing for unique fan configurations to reduce the unit's footprint. Fans are highly efficient and can be shut off to save energy at part-load conditions. A fan array can eliminate costly sound traps, and reduce the amount of maintenance required as there are no belts or bearings to grease.



Fanwall® PM Motor

A brushless permanent magnet motor with innovative features that result in a device superior in both efficiency and performance. In typical variable torque, variable speed fan applications, FANWALL PM motors have proven to be **7% to 15% more efficient** when compared to NEMA Premium® efficiency induction motors.

Near Zero System Effect Backdraft Damper

Prevents backflow in off fans with near zero system effect.

System Optimization Controls

Automatically calculates on/off varied fans and motors to meet airflow requirements with the most efficient combination of fans and motors at any given point in the operating range.



Expanded HP Motors

More horsepower (HP) increments to choose from to more exactly match design HP and reduce connected load, wiring and switchgear costs for the building.

Huntair - We Customize Your Solution

Our sole source leadership distinguishes Huntair products among alternatives, resulting in unprecedented control and flexibility in providing you with a truly custom solution manufactured to closely match your all specific requirements.

Construction Features

- Indoor or outdoor cabinet construction
- Modular construction for ease of transport and installation
- Knockdown construction
- All welded, heavy-duty tubular steel frame with lifting brackets
- Steel, aluminum or stainless steel cabinet
- Variable wall thickness
- Smooth interior or exterior
- Foam panel, hybrid foam panel and fiberglass insulation
- Large access panel doors with heavy-duty hinges and latches
- Anti-skid and diamond-plate floors
- Prefinished powder coating of all cabinet panels, roof, base, interior partitions and doors
- Thermal break technology
- Anti-corrosive and anti-microbial construction
- Factory roof curb
- Standard and severe duty components
- FANWALL® array and factory-wired controls
- Multiple options of fan type, style, and discharge arrangement
- Energy recovery ventilation: wheels, plate, and heat pipe technology
- Cooling options: Chilled water, DX and direct or indirect evaporative
- Heating options: Hot water, steam, direct or indirect gas, and electric resistance
- Pitched stainless steel drain pans
- Filtration options: Pre-filters, high efficiency, HEPA/ULPA, odor control media, electrostatic precipitation
- UV lights
- Service vestibules
- Power panels
- Unit controls
- Interior lights and receptacles
- Air monitoring devices
- Door sealing and aligning hinges
- Dampers, louvers, and hoods
- Viewing ports
- Silencers
- Air blenders
- Humidifiers
- Variable Frequency Drives (VFDs)
- Food grade units
- Washdown construction
- Vertical units

Configurations



Central Station (CSU)

Up to 400,000 cfm



Mini Cabinet (MCF)

150 to 9,500 cfm



Heat Reclaim (HRU)

2,500 to 22,000 cfm



Recirculation (RAH)

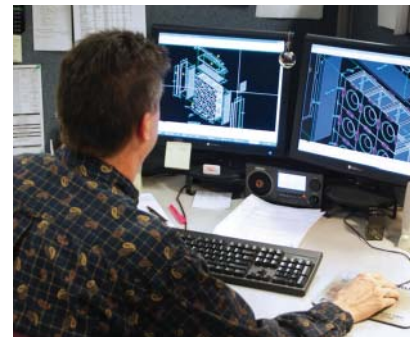
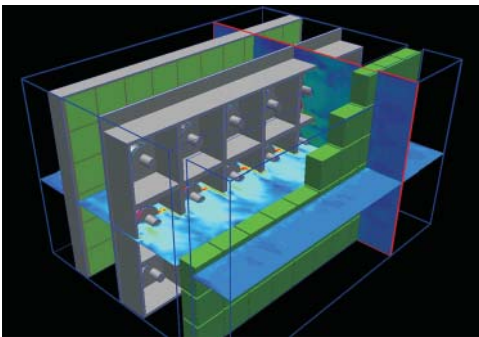
Up to 200,000 cfm

Technology

Huntair engineers are constantly exploring new technology ideas and applications for our existing technology that add value to your experience with our products. Backing their efforts are several in-house tools, including:

- **Computational Fluid Dynamics (CFD) modeling** to aid in virtually demonstrating both the airflow and thermal properties of our designs.
- **AMCA Certified Airflow and Acoustics Laboratory** to verify the actual airflow and acoustic performance of our technology in a laboratory setting before it is applied in our products.
- **CES Design Assistant selection software** to aid in accurately selecting custom air handlers to meet your specific application requirements.

As a member of the CES Group, LLC, Huntair shares expertise with other member companies and has access to CES Group facilities, including the AMCA Certified Acoustics Laboratory in Oklahoma City, OK, and the Advanced Thermodynamics Laboratory in Minneapolis, MN.



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