

WHY CHOOSE BUFFALO AIR HANDLERS?

*Unbounded variations...
for unbounded capabilities.*



What Sets Buffalo Apart:



Customizable Design Excellence

Buffalo Air Handling offers custom air handlers with up to 200,000 CFM, tailored to your pressure and layout needs. Using CAD/SolidWorks, our team builds precise units for complex HVAC projects.



Optimized Performance and IAQ

With 0.5%–1% leakage and triple-sloped, 12-gauge stainless steel drain pans, Buffalo AHUs save energy and meet ASHRAE standards for better air quality.



Durable and Efficient Construction

Our units feature 2", 3", or 4" double-wall panels with foam or fiberglass insulation, reducing energy loss and noise for tough industrial settings.



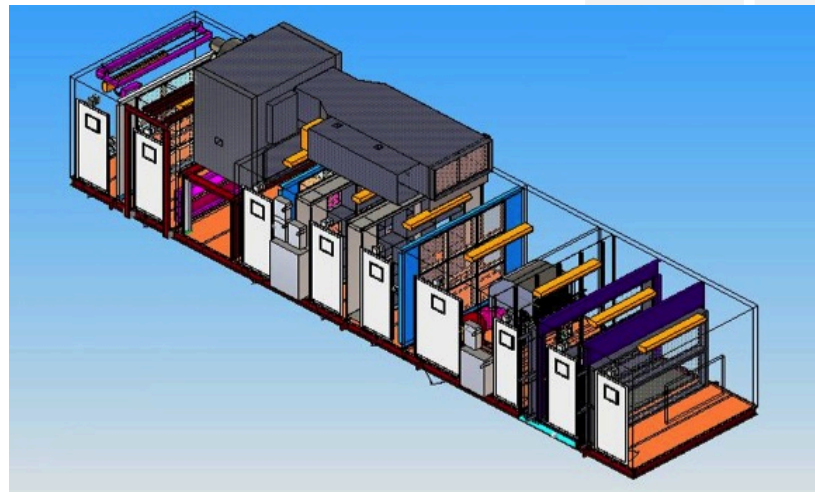
Factory-Tested Reliability

Factory-tested and balanced to AMCA standards, our units include N+1 redundancy and 50%+ pressure drop reduction with monorails for easy maintenance.

Design

Buffalo Air Handling builds custom air handlers with tailored airflow (up to 200,000 CFM), pressures, and configurations. Using CAD/SolidWorks, we turn your designs into durable, efficient units with premium details for easy maintenance and energy savings.

- Unlimited range of capabilities, pressures, and configurations.
- If you can draw it, they can build it.
- Designed to perform and endure—with quality details.





General Construction

Panels: 2", 3", or 4" double-wall for insulation and sound control.
Insulation: Injected foam or fiberglass for efficiency.
Materials: Galvanized steel, aluminum, or stainless steel casings/floors.
Bases: Welded steel or aluminum for stability.
Floors: 3/16" welded, optional treadplate.
Drain Pans: Triple-sloped, 12-gauge stainless steel for full drainage per ASHRAE.
Access Doors: Open against pressure for safe servicing.
Leakage: 0.5%–1% at rated pressure for energy efficiency.



Electrical and Controls

Lighting: Marine-grade, fluorescent, or LED with switches/outlets.
Wiring: Single-point for easy installation.
Drives: Starters, disconnects, VFDs for speed control.
Controls: Factory-mounted customer controls for BMS integration.



Fan Section

Drives: Direct-drive (no maintenance) or belt-drive.
Fans: Single/multiple plenum, centrifugal (DWDI), or axial; N+1 arrays available.
Setup: Vibration-isolated bases; inertia options for high-vibration.
Testing: Factory-balanced to AMCA standards.
Features: Diffuser plates cut pressure loss by 50%+; monorails for maintenance.

Sound Control

Attenuators: Inlet, outlet, or fan-mounted; low pressure drop (<0.1 in. wg.), noise-compliant.
Options: Fiberglass, mylar, or packless; elbow types for tight spaces.



Filter Section

Layouts: Flat/angled with upstream/side access.
Filters: ASHRAE, carbon, or HEPA for labs, per DOE/IEST standards.



Coil Section

Coils: Staggered/split for tight spaces; chilled water/glycol, hot water, or steam.
Drainage: Triple-sloped stainless steel pans; extra troughs for stacked coils.
Supports: Removable racks in stainless, galvanized, or painted steel.

