

# BUFFALO AIR HANDLING

# Hospital



The Kaleida Health Gates Vascular Institute and University of Buffalo Clinical Translational Research Center/Incubator is a collaborative effort resulting in a 477,000 sq. ft., ten story building. It is a “one-of-a-kind” facility that is a cornerstone of a world class academic medical/health sciences campus in downtown Buffalo. All aspects of the facility focus on the themes of collaboration, flexibility and comfort.

The air handling units are located in the 8th floor penthouse and provide conditioned air to the Clinical Translational Research Center (CTRC) Incubator Animal Facility, Incubator Offices and Lab areas.

Due to space constraints, some of the units were stacked on top of each other to take full advantage of the available floor space. All the units are variable volume, so they can be controlled based on occupancy and the associated airflow and pressure requirements. The units were constructed to withstand the effects of earthquake motions determined according to IBC 2003/ASCE 7-02.

Due to the importance of the areas being served by these air handling units, extensive testing was required. Buffalo Air Handling conducted airside performance, sound power, vibration, leakage and deflection factory acceptance testing on the air handling units. After installation, Buffalo Air Handing also conducted field leak tests.

Gates Vascular Institute  
Clinical Translational Research  
Center  
Buffalo, NY

**Equipment:**

Buffalo Air Handling supplied five indoor custom indoor air handling units totaling 275,000 CFM. The units are 3" double wall construction with supply fans, heating, heat recovery and cooling coils, pre, final and carbon filters, dampers, blenders, humidifiers, and sound attenuators.

**Owner:**

Kaleida Health & University at Buffalo, Department of Neurosurgery

**Design Architects/Engineers:**  
CannonDesign

**Construction Manager:**  
Turner Construction Company

**Mechanical Contractor:**  
John W. Danforth Company

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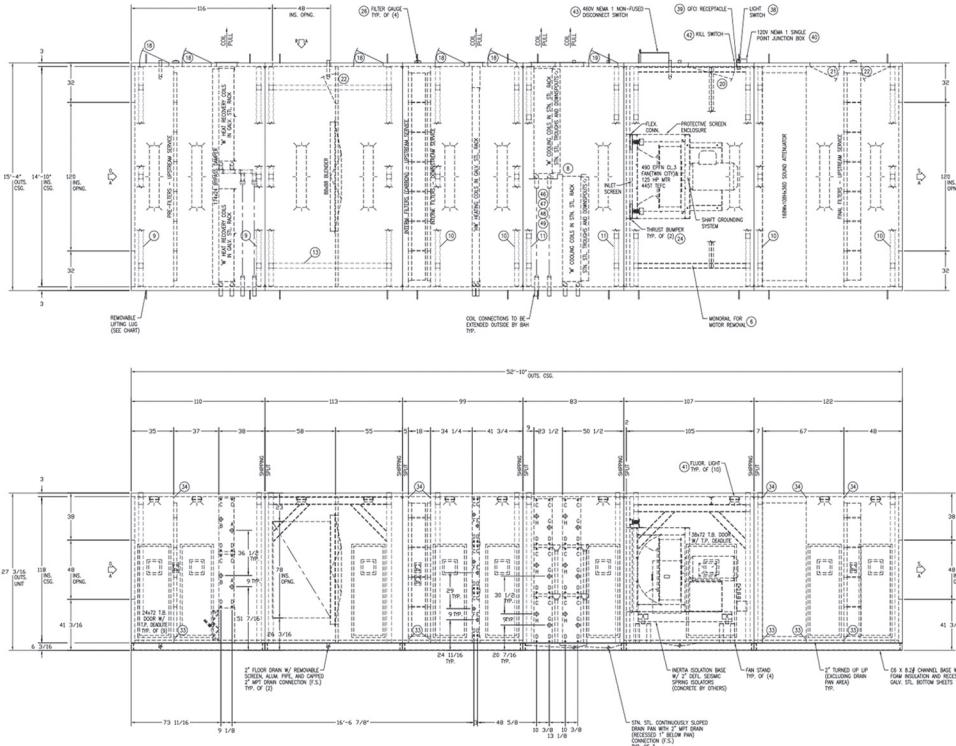
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## Sizes:

- 3" 55,000 CFM

## Construction:

- 3" double wall, G90 galvanized steel, 16 gauge outer, 16 gauge inner, except 20 gauge 304 stainless steel inner in cooling coil section
  - Polyurethane foam insulation
  - 6" structural steel channel base
  - 3/16" aluminum treadplate floor
  - 16 gauge 304 stainless steel drain pans

## Components:

- Class 3, Arrangement 4 EPFN plenum fans with acoustic diffuser
  - Premium efficient, TEFC motors, with shaft grounding rings
  - Hospital grade silencers
  - Inertia base with 2" deflection seismic springs
  - Aerofin plate fin glycol heat recovery and heating coils, 5/8" x .035" copper tubes and .0095" aluminum fins
  - Aerofin Energy Flow water cooling coils, 5/8" x .035" copper tube, .0095" aluminum fins