



## Introduction to ACT Field Build Custom Air Handlers

Air Cleaning Technologies, Inc. (ACT) has been in business since 2000. We specialize in custom field built air handlers and high purity air filtration systems. We have a long history of new and retrofit work in commercial, health care and federal government facilities.

ACT is the supplier of choice for The US Army Corp of Engineers, DOD and DHS for custom Chemical, Biological and Radiological (CBR) air handlers. These units are high static, ultra low leakage units that include CBR filter vessels, class IV fans, Zero leakage vessel doors, and field built assembly. ACT field built air handlers are installed at many sensitive federal installations. (FOUO projects).

ACT has also furnished over 150 custom field and factory built air handling units over the past 11 years to the health care industry.

A sampling of our Health Care portfolio is as follows.

- Valley Baptist hospital- Harlingen TX- 24 custom units.
- Christa Sana Rosa hospital – San Antonio TX- 6 custom units
- Christa Sana Rosa hospital – New Braunfels TX – 12 custom units
- Little Rock surgery center, Little Rock AR- 3 custom units
- Marshall hospital, Marshall TX- 4 custom units
- Sharp Hospital, San Diego CA- 12 custom units
- Morton Hospital, Taunton MA- one field built custom unit
- Children’s Connecticut Medical center- One field built custom unit
- Hackley Memorial hospital, Muskegon, MI- 20 custom units
- Freeport hospital, Freeport IL- one built up custom
- Porter hospital, South bend IN, one field built custom.
- Interfaith hospital, Brooklyn, NY- One custom RTU
- Straub hospital, Honolulu HI- 4 custom roof top units
- St Francis hospital, Honolulu HI- 16 custom units.
- St Luke hospital, Sioux City, IA- 3 custom field built.
- The Medical College of VA, Campus of VCU, Richmond VA. 28 custom units.
- Children’s National Medical Center, Washington DC- 35 custom units
- Shady Grove hospital, Rockville MD- one custom unit.

A sampling of our Federal portfolio is as follows.

- Site 8 Inner Towers-Sensitive DHS project that included the fabrication and installation of four 7200 CFM custom field built air handling units with CBR filtration.
- Site 12-Sensitive DHS project that included the fabrication and installation of one 50,000 CFM custom field built air handler with CBR filtration.
- Site 6- Sensitive DHS project that included the fabrication and installation of three 12,000 CFM custom field built air handlers with CBR filtration.
- Site 4- Sensitive DHS project that included the fabrication and installation of four 8,400 CFM CBR custom field built air handlers with CBR filtration.
- Site 7A- Sensitive DHS project that included the fabrication and installation of one 25,000 CFM custom field built air handlers with CBR filtration
- Site 7- Sensitive DHS project that included the fabrication and installation of four 15,000 CFM custom field built air handlers with CBR filtration
- Site 3- Sensitive DHS project that included the fabrication and installation of two 20,000 CFM custom field built air handlers with CBR filtration
- Site 5- Sensitive DHS project that included the fabrication and installation of one 30,000 CFM custom field built air handler with CBR filtration

ACT has an internal CAD department and equipment selection specialists as well as an assembly department that can rebuild existing air handlers or furnish and install new field built air handlers.

ACT field and built custom air handlers are typically built with the following construction standards.

- L/240 deflection @ 1.5 X design pressure
- .5% casing leakage @ 1.5 X design static pressure.
- 2", 3", & 4" thick casing options.
- Standard and No Thru metal casing options.
- Diamond plate (No tin canning) aluminum floor construction.
- Sloped section floors with dedicated drains.
- Seam welded stainless steel double wall insulated primary condensate pans.
- Standard fan, direct drive fan array, or redundant belt drive fan options.
- High purity air filtration. Particulate & Gas phase.
- CBR filtration options.
- Stainless steel wetted section interior liners.
- Internal florescent lighting.
- Many other construction and component options are available including fan arrays, conventional redundant belt drive fans, dehumidification & heat recovery wheels, UV lighting, factory installed controls, seam welded wash down construction and more.

**Aluminum or galvanized steel casings**



**Stainless steel cooling coil sections**



**Front or side loading filter sections**



**Fan arrays**

