CUSTOM AIR HANDLING UNITS

Beyond Compare

NORTEK™
AIR SOLUTIONS
Nortek Air Solutions custom air handling units offer a flexible design to meet the fit, efficiency and reliability requirements of a wide range of industries.

See how Nortek Air Solutions goes above and beyond to provide a top-rated system unmatched by leading competitors.

### BASE CONSTRUCTION

<table>
<thead>
<tr>
<th>Nortek Air Solutions AHU</th>
<th>VS</th>
<th>BRAND “X” AHU</th>
</tr>
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<tbody>
<tr>
<td><strong>Structural tube base rail</strong> provides unmatched strength and favorable thermal properties versus a c-channel base.</td>
<td></td>
<td><strong>Structural c-channel base rail</strong> is secondary in strength, thermal properties and rust prevention. In the field, c-channel base rails tend to collect debris and water, leading to corrosion.</td>
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</table>
### SOUND PROPERTIES

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<td><strong>FANWALL® cubes come standard with patented Coplanar Silencer® enclosures.</strong> Cubes are lined with perforated aluminum and acoustic insulation to provide up to an 18dB reduction in discharge sound power.</td>
<td></td>
<td><strong>Standard units have open fan cells with no sound attenuation.</strong> There is an optional add-on that provides up to 10dB reduction in vertical applications, but it does not allow for a backdraft damper.</td>
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### BACKDRAFT DAMPER

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<td><strong>AHUs come standard with a near zero system effect backdraft damper.</strong> The backdraft damper allows the system to continue to operate efficiently when a fan either goes down and needs maintenance or is turned off. It will close off the inlet to a fan that is not operational to prevent air recirculation.</td>
<td></td>
<td><strong>Open inlet with no prevention for recirculation.</strong> If a fan goes down, the cell with the inoperable fan will see significant recirculation of air decreasing the efficiency of the air handler while also creating turbulence in the airflow.</td>
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### SYSTEM OPTIMIZATION

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<td><strong>System optimization controls</strong>&lt;br&gt;allow on/off control of individual fan cubes to match requirements in variable airflow applications with the optimum number of fans and motors operating at peak efficiency.</td>
<td></td>
<td><strong>Only option is to ramp up and down the entire fan array.</strong>&lt;br&gt;This is inefficient as it runs the motors in the bottom of their efficiency curve to achieve lower CFM output. This becomes costly both in kWh and maintenance.</td>
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### MIAMI-DADE CERTIFICATION

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<td><strong>Ranked in the top spots on Miami-Dade County’s High Velocity Hurricane Zone rating compliances for AHU cabinets in North America.</strong>&lt;br&gt;Nortek Air Solutions’ steel integrated thermal break frame (ITF) passed at 135 pounds per square foot (PSF) and aluminum ITF passed at 125PSF. This sets Nortek apart from the competition by offering the best hurricane-rated units in the industry.</td>
<td></td>
<td><strong>Ranked at an underwhelming 6th place among competition at 80PSF for its steel cabinet.</strong></td>
</tr>
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</table>
Manufactured and tested the largest coil (184 inches in width) ever to receive HCAI (formerly known as OSHPD) certification. Nortek received HCAI certification for California and IBC certification for all other states. Nortek products were tested with aluminum, steel and stainless-steel bases. Air measuring systems, ionization filters, control systems (including redundant VFD systems) and UV lights underwent testing. Units also included vibro acoustics sound traps.

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<td>Bases limited to steel only. Limited options to have a truly custom unit for projects requiring HCAI certification.</td>
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Offering a broad range of options with units ranging from 1,000 – 300,000+ CFM, Nortek Air Solutions customizes a solution to meet your indoor or outdoor application needs for new construction, renovation and repair projects. 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.

SINGLE-SOURCE RESPONSIBILITY

Nortek Air Solutions designs and manufactures its own key components – coils, fans, dampers, humidifiers – which improves its flexibility and response time to customers. The comfort of not having to worry about added design/production time as well as the installation hassle of assembling components on the jobsite is why more and more customers choose Nortek Air Solutions.

CUSTOM CONFIGURATIONS

- Steel, aluminum or stainless-steel construction
- FANWALL TECHNOLOGY®
- Factory tested, ARI Certified™ performance on cooling and heating coils
- Sectional construction for ease of transport and installation
- Knockdown construction done either at the factory or jobsite
FOR MORE INFORMATION

locate your local representative by visiting www.nortekair.com