## Selection Guide

<table>
<thead>
<tr>
<th>Model</th>
<th>Controls</th>
<th>CFM Range (min-max)</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>35E - Single Duct VAV Terminal</td>
<td>BACnet VVT BACnet VAV Analog, Pneumatic</td>
<td>45-7,100</td>
<td>The 35E single duct VAV box provides cooling only or cooling with reheat coils. The unit can be specified with electric or hot water heat, multiple linings, multiple outlet assemblies and sound attenuators.</td>
</tr>
<tr>
<td>35L N - Dual Duct VAV Terminals</td>
<td>Analog Pneumatic, None</td>
<td>50-7,000 50-3,700</td>
<td>These dual duct terminals are designed to maintain optimum temperatures in the conditioned zone by varying the air volume supplied by the hot and cold supplied ducts, while providing the proper discharge air temperatures.</td>
</tr>
<tr>
<td>37H - Moduline VAV Terminals</td>
<td>Pneumatic, None</td>
<td>100-400</td>
<td>The Moduline VAV diffuser offers the most design flexibility, combined with simple installation and individual small zone comfort control. Heating and cooling distribution from the same terminal with automatic changeover.</td>
</tr>
<tr>
<td>45J/K - Series Flow Fan-Powered Terminal Quiet Flow Fan-Powered Terminal</td>
<td>BACnet VVT or VAV Analog, Pneumatic, None</td>
<td>90-3,300</td>
<td>These fan powered units are designed to maintain optimum temperatures in the conditioned zone through modulation of plenum return air and primary air to the zone.</td>
</tr>
<tr>
<td>45M/N - Parallel Flow Fan-Powered Terminal Quiet Flow Fan-Powered Terminal</td>
<td>BACnet VVT or VAV Analog, Pneumatic, None</td>
<td>90-3,300</td>
<td>These fan powered units provide a combination of cold primary air or cycled plenum induction air and reheat to meet all application needs.</td>
</tr>
<tr>
<td>45Q/R - Low Profile Fan-Powered Terminal</td>
<td>Analog</td>
<td>90-3,300</td>
<td>These fan powered units provide a low profile solution to meet space conditioned spaces while still providing a combination of cold primary air or cycled plenum induction air and reheat to meet all application needs.</td>
</tr>
<tr>
<td>45Q - Dedicated Outdoor Air Terminal Unit</td>
<td>Analog</td>
<td>90-3,300</td>
<td>Dedicated outdoor air system terminal unit comprised of a cooling coil sized to provide sensible cooling to the space. Ideal for chilled beam and water source heat pump systems.</td>
</tr>
<tr>
<td>35BD - Boot Diffuser</td>
<td>None</td>
<td>0-500</td>
<td>These high induction ratio diffusers ensure an optimum mix of incoming air with room air, ensuring occupant comfort.</td>
</tr>
<tr>
<td>35J - Single Duct Retrofit Terminal</td>
<td>Analog Pneumatic, None VAV, VVT</td>
<td>40-3,700</td>
<td>This round tube single duct VAV unit provides cooling only to meet retrofit and special application needs.</td>
</tr>
<tr>
<td>35K - Single Duct Bypass Terminal</td>
<td>Analog Pneumatic, None</td>
<td>110-4,400</td>
<td>Ideal for VVT applications by varying the amount of cool air supplied to the zone from a CV Air Handler.</td>
</tr>
</tbody>
</table>

## Benefits at a Glance

**For Building Owners & Managers**
- Enhanced ventilation effectiveness
- Delivers great occupant comfort
- Reliable performance
- Versatile cooling/heating performance

**For Consulting Engineers**
- Versatile cooling/heating performance
- System-integrated controls
- AHRI certified
- Supports demand controlled ventilation (DCV)

**For Contractors**
- Minimizes cost for changes
- Installation accessibility
- Single-sourced support
- Reduced installation time
- System-integrated controls

## A Legacy of Training

Willis H. Carrier began training members of the heating, ventilation, air conditioning and refrigeration industry in 1905. Carrier continues to promote technical excellence in the industry with the expansion of its sustainable solutions curriculum and has recently been named a U.S. Green Building Council Education Provider (USGBC EP).

To earn this status, Carrier’s course materials were reviewed by a panel of USGBC peers and deemed to provide the high level of quality required for training Leadership in Energy and Environmental Design (LEED®) professionals. The courses and workshops supporting LEED-Accredited Professional and Green Associates credential maintenance are administered through Carrier University.
Axis™ Overhead Air Terminals
Comfort from the Inside Out

Commercial buildings, whether a school, office, hotel, or hospital, come in many shapes and sizes, and while the buildings and their functions can be very different, they all have the same goal — to provide a healthy, consistent, and dependable environment for its occupants. That being said, Axis air terminal systems are designed with that mentality in mind and of providing “comfort from the inside out.”

The dilemma is how do you create such a sustainable environment, while at the same time minimizing your investment, energy use and operating costs? By making Axis air terminals part of your customers heating and cooling system.

The extensive Axis air terminal product offering provides the ideal amount of design flexibility to minimize installation tasks, lower maintenance costs and supply the consistent comfort that Carrier customers deserve. Axis offering includes such products as single duct and dual duct, fan powered, and system powered air terminals available with many factory installed options and features to include the right control option to meet the customers’ needs.

The Right Level of Control
To compliment Carrier’s superior quality and product offering, the Axis air terminals have the right level of control in mind for all your comfort needs. All Carrier’s air terminals are designed to be fully compatible with most control options, including Carrier’s own i-Vu® controls — an advanced and fully-integrated BACnet® control platform that supports both variable air volume (VAV) and variable volume and temperature (VVT) applications. These controls work to identify and meet each zone requirement to control temperature, humidity, CO₂, and other indoor air quality (IAQ) needs. In addition, they can also provide zone level demand control ventilation and duct static pressure reset, and can be used in both retrofit and new building applications.

Adaptability
Axis overhead air distribution products are ideal for a variety of applications: offices (small or large), schools and medical facilities. Choose the system that best meets your application needs.

Affordability
Axis air terminals equipped with Carrier’s latest i-Vu® controls can be used in a variety of applications, from small constant volume zoning systems to complex VAV zoning systems.

Indoor Air Quality
Axis overhead air terminal controls provide the integration of demand control ventilation (DCV) to deliver the right amount of ventilated air when it is needed.

Sound
All Axis air terminals have been designed to meet space and comfort requirements at the low acoustical levels needed in today’s multifunction building environments. The boxes are sound tested in accordance with AHRI 880-90.

In addition to i-Vu Open protocol system, the Axis air terminals are also offered with conventional analog, pneumatic, and many other third-party controllers, which can be installed at the factory upon request.

Bottom line is no matter the application or control scheme, Carrier has the right level of control to provide comfort from the inside out.

The Axis Air Terminal Product Offering

45Q DOAS Terminal
• Fresh air inlet sizes 4” - 8” available to meet minimum ventilation rates
• Fan motor with electronic speed control or ECM Motor, airflow capacities to 3,000 CFM
• 20 Stage construction with removable bottom service panel
• Hot water or electric heat with magnetic contactors or solid state relays available
• AHRI and ETL listed, meets NFPA 90A, UL 181, and ASTM C 665 requirements

35E – VAV Units
• 45-7,100 CFM
• Full control options (DDC and conventional)
• Multiple heating options
• Cool only (system powered changeover, warm up valve or electric interlock available)

Fan Powered Terminal
45J – Standard Unit
45K – Low Sound Unit
• 90 to 3,700 CFM
• ECM motor options
• Full control options
• Multiple heating and cooling options

35K – Bypass Terminal
• 110 to 4,400 CFM
• VVT® application
• Thermostat or custom controls

37HS – System-Powered VAV
• Ideal for office applications
• Custom ceiling applications
• Cooling only (system powered changeover, warm up valve or electric interlock available)