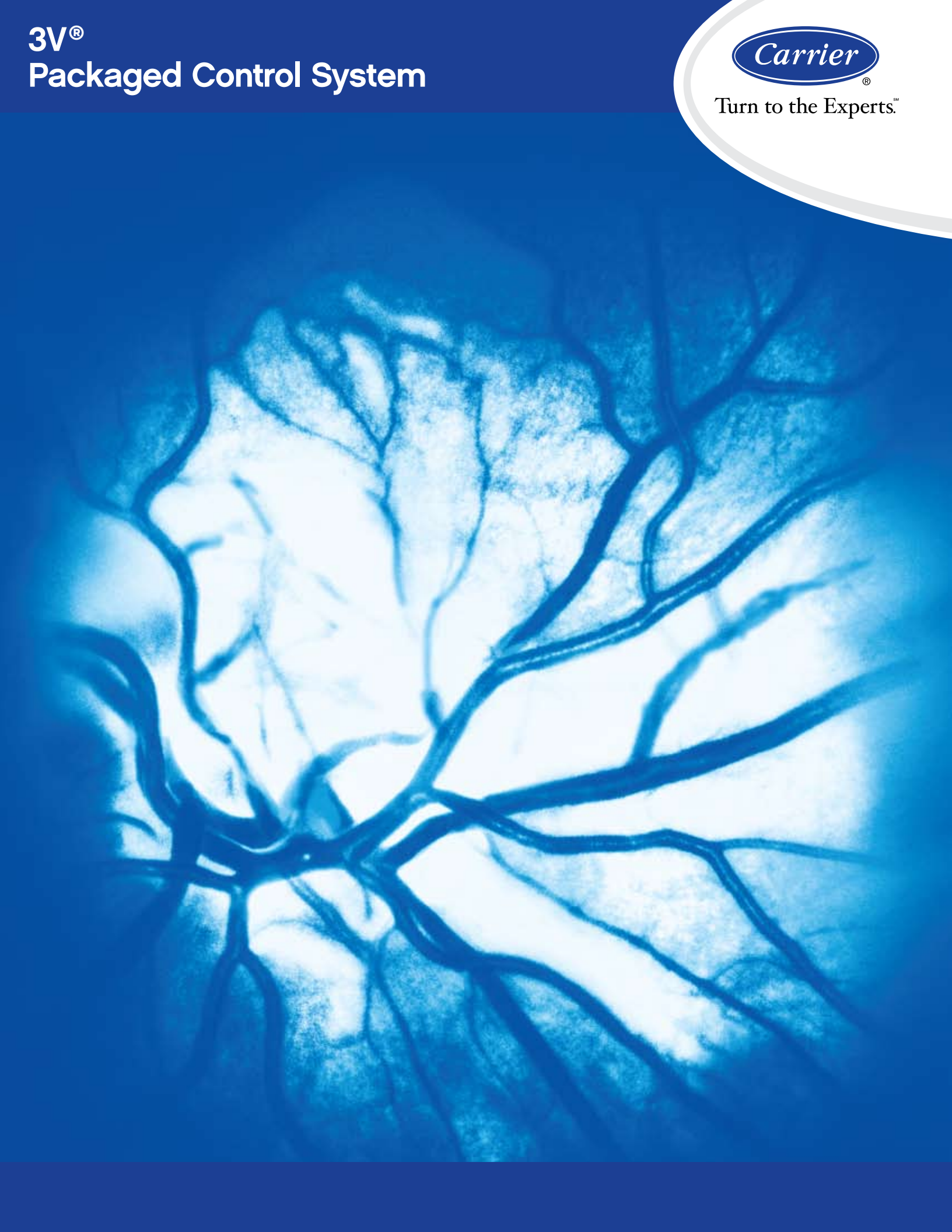


3V[®]
Packaged Control System



Turn to the Experts.SM



3V[®] Packaged Control System HVAC Controls Made Simple



Carrier created and trademarked the first variable volume/variable temperature (VVT[®]) system nearly two decades ago when it provided building owners, consulting engineers and contractors individualized levels of zone control from a single constant volume heating and cooling unit. Using its knowledge and expertise, Carrier has raised the bar on precision control and comfort for packaged systems with the introduction of the 3V packaged control system.

Whether it's constant volume, variable volume/variable temperature or packaged variable air volume, the 3V control system by Carrier integrates advanced state-of-the-art control components that deliver exceptional comfort and energy efficiency. This new system intelligently interprets building conditions and optimizes equipment operation.

Access to the system has never been easier with the 3V System Pilot or Web-based interface. Accessing, monitoring and changing unit and system parameters and performance can now be accomplished around the clock and around the block.

Affordability

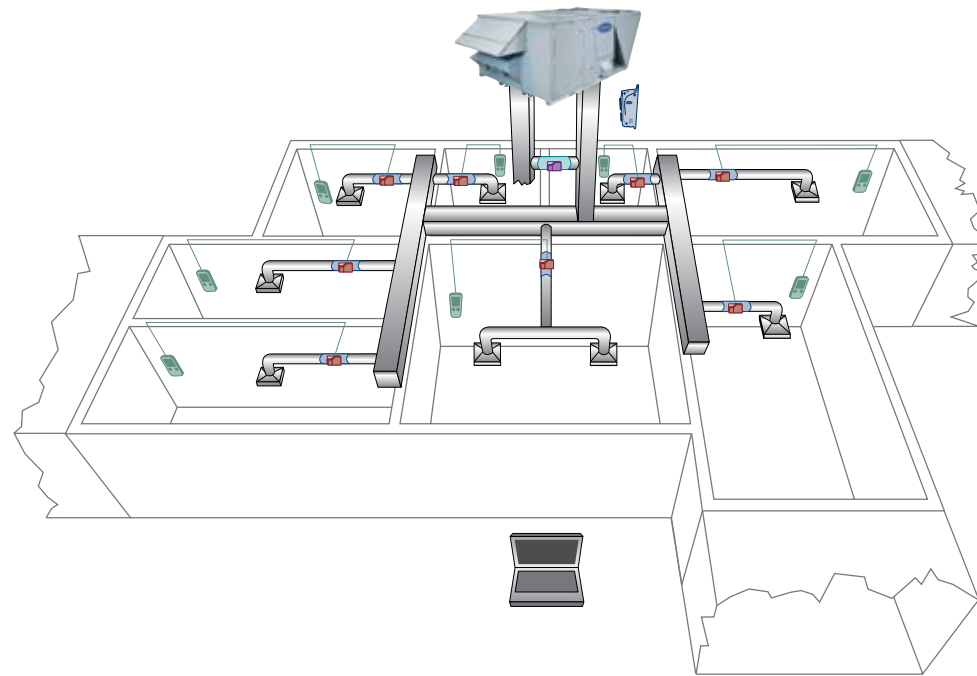
Through advanced communications, the 3V packaged control system reduces time, complexity and costs associated with the service and support of multiple heating, ventilation and air conditioning (HVAC) systems. The 3V system combines comprehensive control capabilities, flexibility and ease of installation, making it ideal for a wide range of building types, including school systems, retail stores, health care facilities and offices.

Efficiency

Energy consumption is minimized by the 3V system through precise temperature and equipment control. It offers several energy-saving features, including demand control ventilation (DCV), integrated economizer operation, smart start, setback programming and unoccupied scheduling.



Constant Volume Variable Volume/Variable Temperature Packaged Variable Air Volume



Installability

The 3V packaged control system gives you the widest range of operational features designed to make configuring and programming your specific needs extremely easy. Regardless of the application — whether it's an office building, school or mall — this system offers seamless operation with other system components, helping to deliver precise comfort control.



Reliability

Backed by decades of Carrier Corporation's engineering and control expertise, the 3V system was designed by Carrier experts to intelligently interpret building conditions and optimize equipment response. When you combine the 3V control system with Carrier's HVAC equipment, you get all the benefits of a single-source supplier and advanced building management systems for your building project.

The Right Level of Control

The System Pilot is the main component of the 3V packaged control system and serves as the user interface and navigation tool for each system. With the System Pilot, you'll find that any changes to the 3V system's comfort levels, equipment settings or other elements are quick and easy. Using Carrier's Web-based technology, you can monitor your system anytime from anywhere.

Integrating your HVAC equipment and other building controls has never been simpler. Carrier's Universal Controller offers user-friendly installation. Pre-programmed algorithms are quickly programmed with "fill-in-the-blank" ease from the System Pilot.

The 3V VVT system, with its Zone and Bypass Controllers, integrates Carrier's advanced-control components with constant volume rooftop units to deliver outstanding comfort and energy efficiency. The 3V packaged control system provides precise temperature control for up to 32 zones for VVT applications and up to 128 for PVAV applications. Zone level DCV is available on all 3V zoning systems, satisfying ventilation requirements based on actual occupancy versus designed occupancy, saving energy costs.

For precise control of your facility's critical equipment and systems, this 3V packaged control system can meet all your needs.



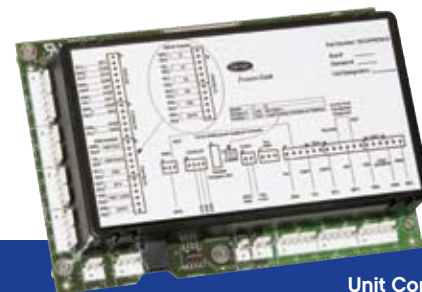
3V System Pilot

- 6.0" H x 3.5" W x 1.25" D
- LCD Display
- Easy-to-Read, Full Text



Space Temperature Sensor with LCD Display

- 4.51" H x 2.75" W x 1.15" D
- Occupancy Override
- Set-point Adjustment



Unit Controller

- 5.75" H x 8.5" W x 3" D
- Stand-alone or Networked
- Factory Installed are Pre-programmed
- Retrofit Kits Available



Zone Controller and Damper

- 2.36" H x 9.2" W x 4.84" D (Controller Only)
- Communicates Individual Zone Requirements
- Controls the HVAC Unit Based on Demand From All Zones
- Accepts Zone Level CO₂ Sensor



Universal Controller

- 14" H x 6.5" W x 2" D
- Eight Universal Inputs and Outputs
- Removable Connectors
- Pre-programmed Algorithms

Selection Guide

Typical Application	System Pilot	Constant Volume HVAC Unit	Bypass Controller	VVT Zone Controller	Variable Air Volume HVAC Unit	VAV Zone Controller	Web Access Device	Remote Access Device	Universal Controller
(CV) Constant Volume Single zone of control per constant volume HVAC unit 2–100 tons of cooling capacity Gas/Electric heating and heat pump	✓	✓					✓	✓	✓
(VVT) Variable Volume and Temperature Up to 32 zones of control per constant volume HVAC unit 25 tons and below of cooling capacity Gas/Electric heating and heat pump 50,000 sq. ft. and below	✓	✓	✓	✓			✓	✓	✓
(PVAV) Packaged Variable Air Volume Up to 128 zones of control per VAV HVAC unit 30 tons and above of cooling capacity Cooling only units, supplemental heat required 50,000 sq. ft. and above	✓				✓	✓	✓	✓	✓

✓ Required ✓ Optional

Benefits at a Glance For Building Owners and Managers

- Reduced energy consumption
- Reduced service and maintenance expenses
- Building access from anywhere
- Installation flexibility
- Lower utility costs

For Consulting Engineers

- Ensures proper ventilation to meet ASHRAE 62
- Reliable performance
- Reduced energy consumption
- Built-in flexibility allows easy upgrading
- Streamlined installation

For Contractors

- Pre-engineered algorithms simplify system setup
- Reduced installation costs
- Remote access
- Increased technician productivity
- Easy system access from one central System Pilot
- Easy upgrading
- Seamless operation with system components

Turn to the Experts

Whatever your HVAC needs, from specifying and purchasing to installation and maintenance, Carrier has the solution. As the world leader in heating, ventilation and air conditioning, Carrier is committed to continually improving the quality of comfort for our customers.

From concept to finished product, your local Carrier sales representatives walk with you every step of the way. Whether you have one building, multiple sites nationwide, or special equipment and facility requirements, Carrier sales representatives will recommend a solution that fits your scope and budget.



Turn to the Experts.™

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