



turn to the experts 

NEW STAGED AIR VOLUME SAV™ SYSTEM

The new Carrier® Staged Air Volume SAV™ System saves energy and installation time by utilizing a Variable Frequency Drive (VFD) to automatically adjust the indoor fan motor speed in sequence with the units cooling, heating and ventilation operation.

Energy Savings*

- Compared to single speed indoor fan motor systems, can save 25%+ in energy to help reduce operating costs.
- Improves unit Integrated Energy Efficiency Ratio (IEER).
- May qualify for utility rebates.

Code Compliant

- Complies with ASHRAE 90.1 2010 standard for Single Zone Variable Air Volume (SZ-VAV) control.
- Meets requirement for California Title 24 indoor fan speed control.
- Carrier exceeds ASHRAE 90.1 2010 standard by offering the SAV™ System on popular 7.5 and 8.5 ton models.

VFD Benefits

- Pre programmed, tested and installed at the factory.
- Soft start capability eliminates high in-rush air volume to help reduce noise in duct systems during speed change.
- Provides indoor fan motor over current protection.

Comfort Control

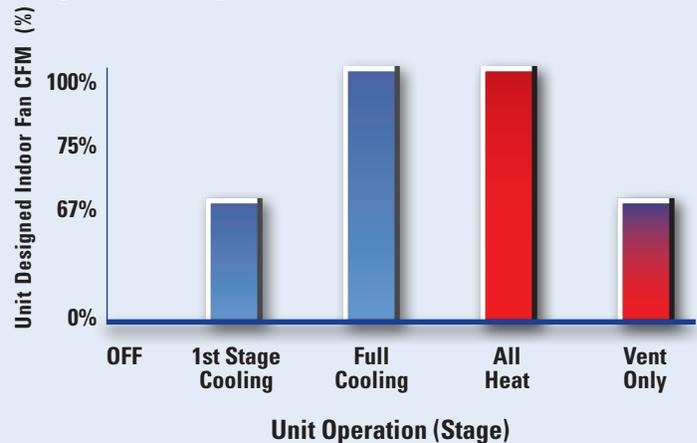
- Helps lower indoor humidity level at lower speed by improving air over coil efficiencies.
- Indoor fan speed is matched to cooling staging for better load profile control and occupant comfort.

Simple Set-Up and Operation

- Pre programmed VFD allows simple fan pulley adjustments to establish fan performance settings.
- No special training or certified start up is required.



Operating Sequence



* See back page for more information

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Models Available with the SAV™ System

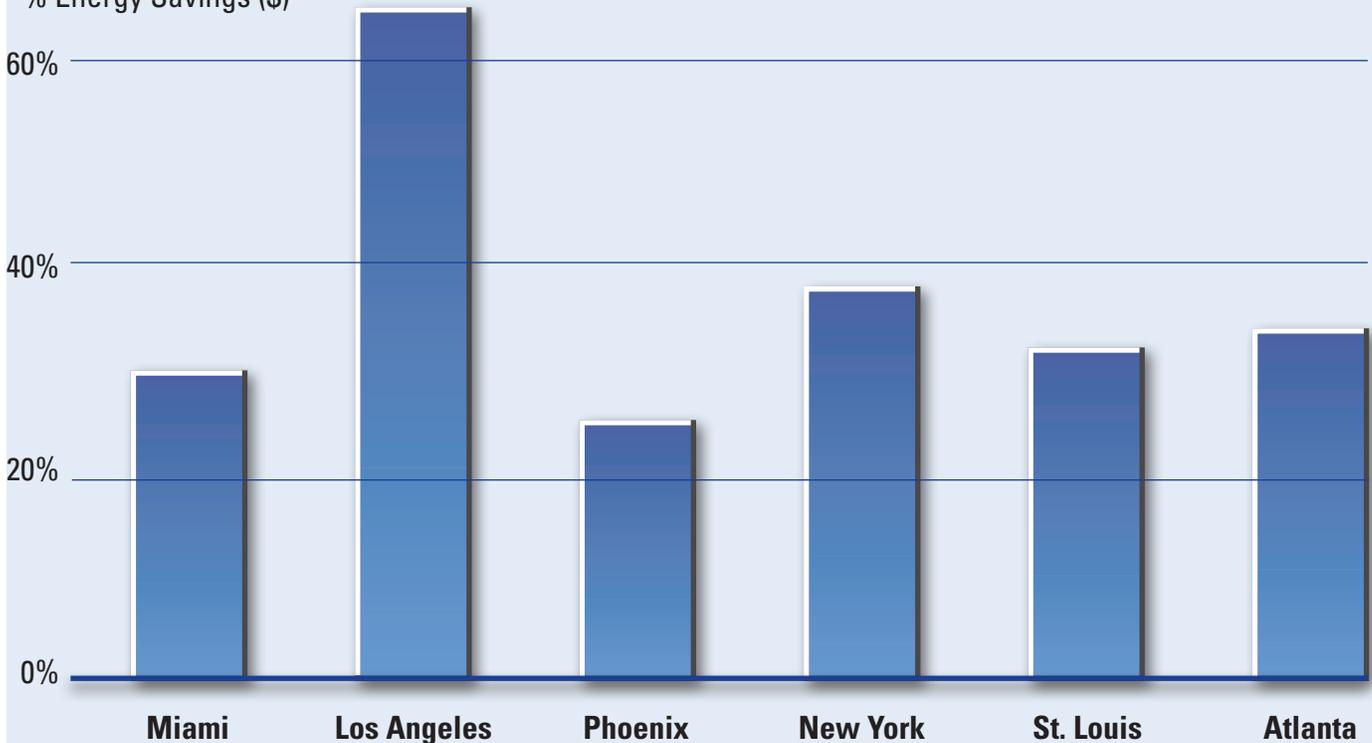
Model Series	48/50TC&Q (2 stage cooling models only)	48/50HC&Q	40RUA&Q	40RUS
Size	7.5 – 27.5 Ton	7.5 – 25 Ton	10 – 30 Ton	12.5 – 30 Ton

Operating Savings with the SAV™ System

Compared to single speed indoor fan motor systems, Carrier's staged air volume SAV™ System utilizing variable frequency drive (VFD) and 2-speed indoor fan motor can save substantial energy.*

STAGED AIR VOLUME

% Energy Savings (\$)*



* Annual estimated electric energy savings utilizing Carrier's Hourly Analysis (HAP) Program v4.6. Based on cooling and ventilation fan runtime hours using ASHRAE 90.1 office application, default schedule, weather and building data. Carrier model 48/50TC 12 at .10 (\$/kWh) energy rate.