

NEW WeatherExpert™ Packaged Rooftop Units

Carrier's Leading Energy Efficient Comfort Solution

The Green PROfessionals



As the world's leader in high technology heating, air-conditioning and refrigeration solutions, we believe that market leadership requires environmental leadership. Carrier sets industry standards for environmentally sound business practices and a commitment to sustainability across its products, services and operations. We demonstrate this commitment by creating environmentally responsible solutions that consume less energy and incorporate innovations that improve the world – and by our leadership in environmental organizations.

Carrier is...

- The only company in the world to be a founding member of the U.S., Argentina, China, India, Singapore and France Green Building Councils
- U.S. Green Building Council Education Provider (USGBC EP)
- Supporter of Dr. Willis H. Carrier Total Indoor Environmental Quality (TIEQ) lab at the Syracuse Center of Excellence (SyracuseCoE)
- Partner with China Ministry of Environmental Protection to raise the level of awareness for ozone protection
- Active participant on technical advisory groups, including ASHRAE

Help the Environment... And Your Bottom Line

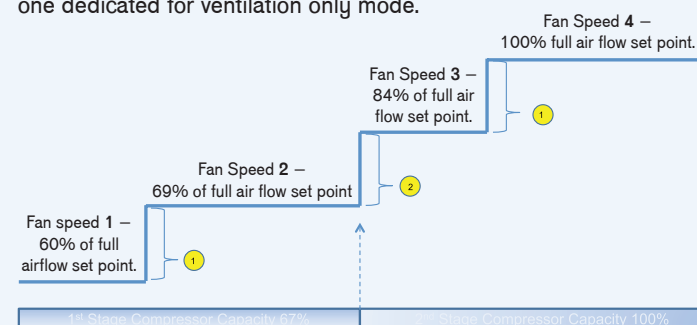
Utilizing a Carrier WeatherExpert™ unit means a smaller environmental footprint. No matter how hot it gets outside, a WeatherExpert unit provides reduced energy consumption, increased efficiency, and lower energy costs. It also means longer equipment life and more consistent cooling comfort for your faculty, students, employees and customers.

Turn to the Experts

From concept to finished product, your local Carrier commercial sales and service 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 and service will recommend a solution that fits your scope and budget. To find a representative near you, call 1-800-CARRIER or visit www.carrier.com.

Single Zone – Variable Air Volume With Carrier's Smart – Staged Air Volume (SAV™) Logic

Carrier's new WeatherExpert™ commercial packaged rooftop units are available with *Smart* – Staged Air Volume logic that controls the supply air volume in conjunction with the multi-stage compressor for better energy savings, comfort, and humidity control. Utilizing the *ComfortLink* control option with the variable frequency drive (VFD) belt drive fan system, five individual fan speed stages are possible; four specifically designed to match the multi-stage compressor and one dedicated for ventilation only mode.



Notes:

- Change over logic from speed 1 to speed 2 and speed 3 to speed 4 are determined by a combined comfort sequence of : runtime of 8 minutes, plus supply air temperature and refrigerant suction pressure. 5 ton model shown.
 - Change over logic is driven between 1st stage cooling at 67% and 2nd stage cooling at 100%
- Fan Speed 5 is dedicated for ventilation only mode, factory set at 50% of full air flow set point.
- All above fan settings are factory set and can be field adjusted. Heating mode is set for full air flow.

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 expertise 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).

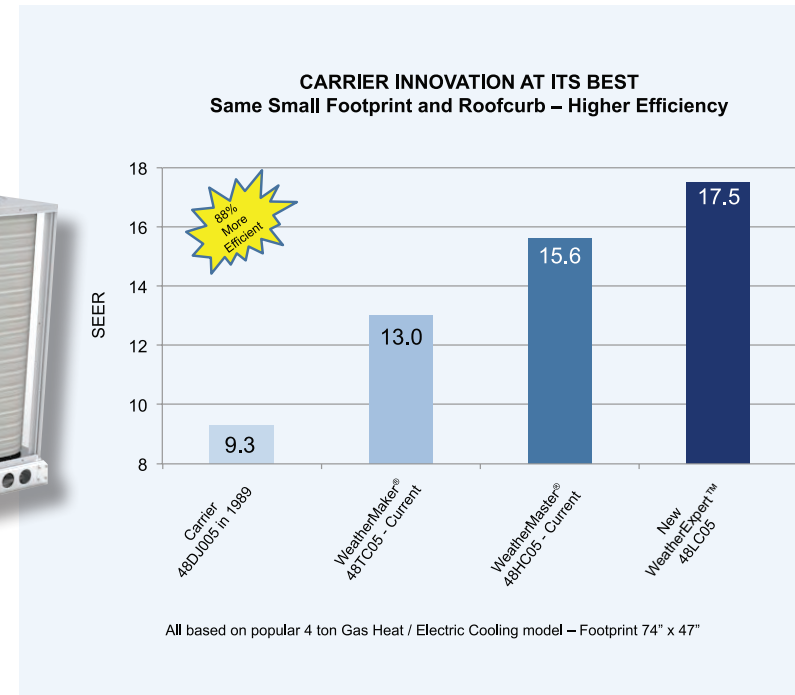
To earn this status, Carrier's course materials were reviewed by a panel of USGBC peers and deemed to provide the high level of quality required for training Leadership in Energy and Environmental Design (LEED®) professionals. The courses and workshops supporting LEED-Accredited Professional and Green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





NEW WeatherExpert™ Packaged Rooftop Units

Carrier's most efficient commercial packaged rooftop ever produced



WeatherExpert™

The Tradition Continues

The new WeatherExpert™ series is Carrier's most efficient commercial packaged rooftop unit ever produced and designed to deliver comfort and energy savings at both full and part load conditions. WeatherExpert units are available in 3-, 4- and 5-ton sizes and are available in Gas Heating/Electric Cooling, Cooling Only and Electric Heating/Electric Cooling.

Like other models in the Weather Series rooftop family, WeatherExpert units are specifically designed to fit on Carrier similar sized roof curbs that were installed 23 years ago, which makes replacement easy and eliminates the need for curb adapters or changing utility connections.

For fast delivery, WeatherExpert units are factory and field stocked. All models are capable of either vertical or horizontal airflow to meet the most demanding light commercial application needs.

Energy – FIVE – Star Rated

When it comes to efficiency, the WeatherExpert is five star rated. With SEER's up to 17.5, these models exceed federal minimum energy efficiency requirements by up to 34 percent, are Energy Star® rated and meet or exceed the Consortium of Energy Efficiency (CEE) tier II levels. This helps to provide a lower cost of ownership and may qualify for energy rebates.

Comfort Control

Control logic combined with variable/multi speed technology can all be integrated with the ComfortLink control system by Carrier to support single zone variable air volume (SZ-VAV) applications. Additional

dehumidification (speed control) capability is available when unit is equipped with ComfortLink control, belt drive motor variable frequency drive (VFD) and additional humidity sensor.

Single Zone Variable Air Volume (SZ-VAV)

Unlike a conventional system that typically operates at a constant supply (variable temperature) airflow regardless of load, the SZ-VAV system modulates the fan speed and compressor stages to better match the changing building load. This not only saves energy, but help provide better comfort control.

Pre-Engineered Factory Options

- Low NOx gas heat models
- HACR breaker or non fused disconnect switch
- Air management economizers and relief
- Special coated coils
- Ultra low leak economizer
- Hinged panels with quarter turn latches and lift tabs
- Electric heaters

Performance Assured

The WeatherExpert was built with reliability in mind; Carrier stands behind our Standard Limited Parts Warranty:

- 1-Year parts
- 3-Year ComfortLink control
- 5-Year compressor
- 5-Year electric heater
- 10-Year aluminum gas heat exchanger
- 15-Year stainless steel gas heat exchanger

Unit Performance Data

Gas Heat/Electric Cooling Models

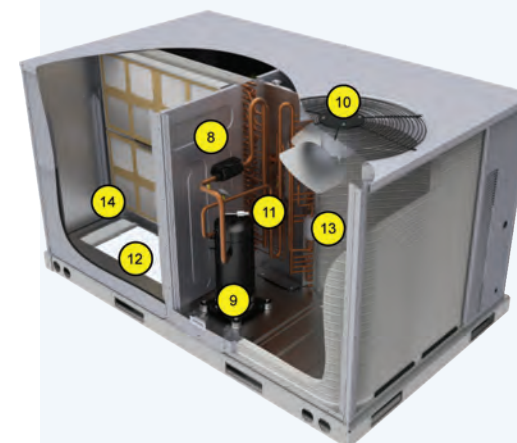
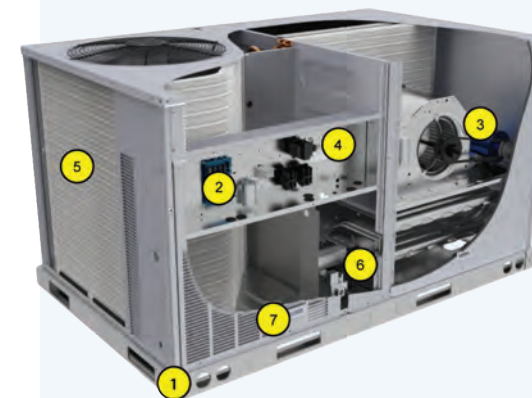
Model Number	Nominal Tons	AHRI Rated SEER	Gas Heating Data (Output Capacity)			Outdoor Sound Rating dB (A)	Physical Size (LxWxH) in.	Approx. Operating Weight – lbs.
			Low	Medium	High			
48LC**04	3	17.1	56,000	89,000	—	76	74 x 47 x 33	505
48LC**05	4	17.5	56,000	90,000	117,000	78	74 x 47 x 41	590
48LC**06	5	17.2	56,000	90,000	117,000	77	74 x 47 x 41	600

SEER rating with ECM – Electronically Commutated Motor

Electric Heat/Electric Cooling and Cooling Only Models

Model Number	Nominal Tons	AHRI Rated SEER	Electric Heat Nominal (kW)	Outdoor Sound Rating dB (A)	Physical Size (LxWxH) in.	Approx. Operating Weight – lbs.
50LC**04	3	17.1	5, 10, 15	76	74 x 47 x 33	458
50LC**05	4	17.5	5, 10, 15, 20	78	74 x 47 x 41	545
50LC**06	5	17.2	5, 10, 15, 20, 25	77	74 x 47 x 41	550

SEER rating with ECM – Electronically Commutated Motor



1. Full perimeter base rails with built in rigging provisions.
2. Electrical mechanical or RTU Open multi-protocol direct digital controller. Additional ComfortLink integrated controller that provides:
 - Scrolling marquee display
 - Reverse rotation protection
 - Service diagnostics and alarms
 - Alarm and run time history
 - Additional dehumidification fan speed control
3. High efficient direct drive multi speed ECM indoor motor or belt drive system with Variable Frequency Drive (VFD) controller.
4. Gas units utilize Integrated Gas Controller (IGC) with LED fault indication. Electric heat units utilize single point wiring connection.
5. High efficient round tube plate fin coils with optional special environmental coating.
6. All gas models utilize induced draft combustion system with tubular heat exchanger.
7. Large access panels to all major components with no strip screw technology and handles. Tool-less filter access door.
8. Precision sized Thermostatic Expansion Valve (TXV) provides optimum operation through the entire application range.
9. 2-Stage scroll compressor provides efficient and accurate temperature control. Combined with ComfortLink controls system can provide single zone SZ-VAV logic and operation.
10. High efficient direct drive ECM outdoor fan motor aids in unit overall high performance. Helps provide quiet operation with outdoor sound levels to 76 dB
11. Fully safety protected with high pressure, low pressure and over current/temperature.
12. Standard vertical supply and return air configuration can be easily field converted to horizontal supply and return air with no special kits.
13. High capacity solid core filter drier for added refrigerant system protection.
14. Non-corrosive, composite material condensate pan/drain system. Designed in accordance with ASHRAE 62 standard, sloping design with side and center drain connections.