

WeatherExpert™... The Industry's Most Efficient Packaged Rooftop Units

Gas/Electric Units

Model	Ton Size	Cooling Stages	AHRI IEER (SEER)		Gas Heating Data (Output Capacity - BTUH)			Dimensions (LxWxH) in.
			208V	230/460/575V	Low	Medium	High	
48LC*04	3	2	(17.1)		56,000	89,000	-	74x47x33
48LC*05	4	2	(17.5)		56,000	90,000	117,000	74x47x41
48LC*06	5	2	(17.2)		56,000	90,000	117,000	74x47x41
48LC*07	6	3	20.5	20.3	59,000	103,000	148,000	88x60x49
48LC*08	7.5	3	19.8	19.4	120,000	146,000	195,000	116x63x57
48LC*09	8.5	3	20.8	19.8	120,000	146,000	195,000	116x63x57
48LC*12	10	3	20.3	20.6	146,000	195,000	252,000	116x63x57
48LC*14	12.5	3	19.1		143,000	178,000	251,000	128x86x49
48LC*17	15	3	18.4		178,000	251,000	324,000	142x86x57
48LC*20	17.5	3	17.7	17.5	178,000	251,000	324,000	142x86x57
48LC*24	20	3	18.0		178,000	251,000	324,000	158x86x57
48LC*26	23	3	17.8		178,000	251,000	324,000	158x86x57

Note: 3-5 Ton SEER – With Direct Drive ECM indoor motor. Check product data catalog for more information. Voltages are 3-Phase

Electric/Electric Units

Model	Ton Size	Cooling Stages	AHRI IEER (SEER)		Electric Heat Nominal (kW)	Dimensions (LxWxH) in.
			208V	230/460/575V		
50LC*04	3	2	(17.1)		5,10,15	74x47x33
50LC*05	4	2	(17.5)		5,10,15,20	74x47x41
50LC*06	5	2	(17.2)		5,10,15,20,25	74x47x41
50LC*07	6	3	20.7	20.5	6,15,23	88x60x49
50LC*08	7.5	3	19.9	19.4	10,15,30	116x63x57
50LC*09	8.5	3	21.0	19.9	10,15,30	116x63x57
50LC*12	10	3	20.5	20.8	10,15,30,45	116x63x57
50LC*14	12.5	3	19.3		15,25,50	128x86x49
50LC*17	15	3	18.5		25,50,75	142x86x57
50LC*20	17.5	3	17.9	17.7	25,50,75	142x86x57
50LC*24	20	3	18.2		25,50,75	158x86x57
50LC*26	23	3	18.3		25,50,75	158x86x57

Note: 3-5 Ton SEER/EER – With Direct Drive ECM indoor motor. Check product catalog for more information. Voltages are 3-Phase

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.



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WeatherExpert™ Packaged Rooftop Units / 3-23 Ton Unrivalled Leadership in Comfort and Total Low Cost Of Ownership





WeatherExpert™ Packaged Rooftop Units

Unsurpassed Efficiency Provides Low Total Cost Of Ownership

Leading Efficiencies

The Carrier WeatherExpert™ Packaged Rooftop Unit series provides comfort and energy efficiency never seen before. WeatherExpert units, available in 3-23 ton sizes, use multi-stage compressors, a single refrigerant circuit and SAV™ (Staged Air Volume) logic to provide part-load efficiencies that lead the industry. This simple design provides two- and three-stage cooling and IEERs (Integrated Energy Efficiency Ratios) up to 21.0.

LEED & Energy Rebates

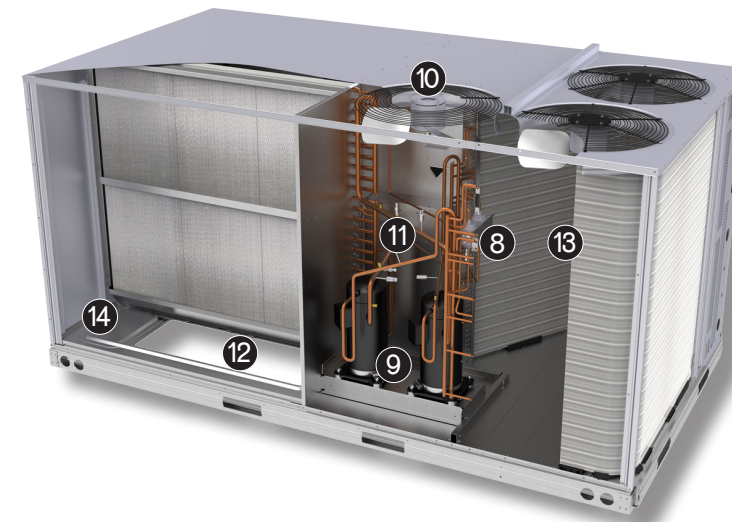
With ultra high IEERs and energy-saving features such as Variable Frequency Drives, the WeatherExpert Packaged Rooftop Units can help contribute to qualify for LEED®¹ (Leadership in Energy & Environmental Design) credits and may qualify for efficiency rebates from your local utility company.

Low Cost of Ownership

Designed with cost-efficiency in mind, many WeatherExpert units use the same curbs and accessories as other Carrier rooftop units, making upgrades easy. Superior energy efficiency and ease of installation and maintenance helps provide a low total cost of ownership.



¹LEED® is a registered trademark of U.S. Green Building Council.



WeatherExpert...Engineering Excellence Built In

1. Rigid full perimeter base rails have built-in rigging provisions.
2. Units are available with electro-mechanical controls or RTU Open multi-protocol direct digital controller, available fall 2013.
Additional ComfortLink integrated controller on 3-5 ton models that provides:
 - Scrolling marquee display
 - Reverse rotation protection
 - Service diagnostics and alarms
 - Alarm and run time history
 - Additional dehumidification fan speed control
3. All models use highly efficient belt drive indoor fan systems with Variable Frequency Drive (VFD) controller; 3 to 5 ton units are also available with direct drive multi-speed ECM indoor motors.
4. Gas units utilize Integrated Gas Controller (IGC) with LED fault indication. Electric heat units utilize single point wiring connection.
5. Highly efficient enhanced 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 panels with handles and no-strip screw technology provides access to all major components. Tool-less filter access door.

8. Precision sized Thermostatic Expansion Valve (TXV) provides optimum operation through the entire application range.
9. Multi stage cooling capacity (2-stage on 3 to 5 ton, 3-stage on 6 to 23 ton) with a fully activated evaporator coil on a single refrigerant circuit that provides efficient and accurate temperature control.
10. Highly efficient direct drive ECM outdoor fan motor aids in unit overall high performance. Helps provide quiet operation with outdoor sound levels as low as 76 dB.
11. Fully safety protected with high pressure, low pressure and over current/temperature.
12. Units are available in vertical supply and return air or horizontal supply and return air configurations to adapt to job applications as required.
13. High capacity solid core filter drier for added refrigerant system protection.
14. Non-corrosive, composite material condensate pan/with bottom center drain connection is designed in accordance with ASHRAE 62 standard.

IEER: The New Gold Standard in Efficiency

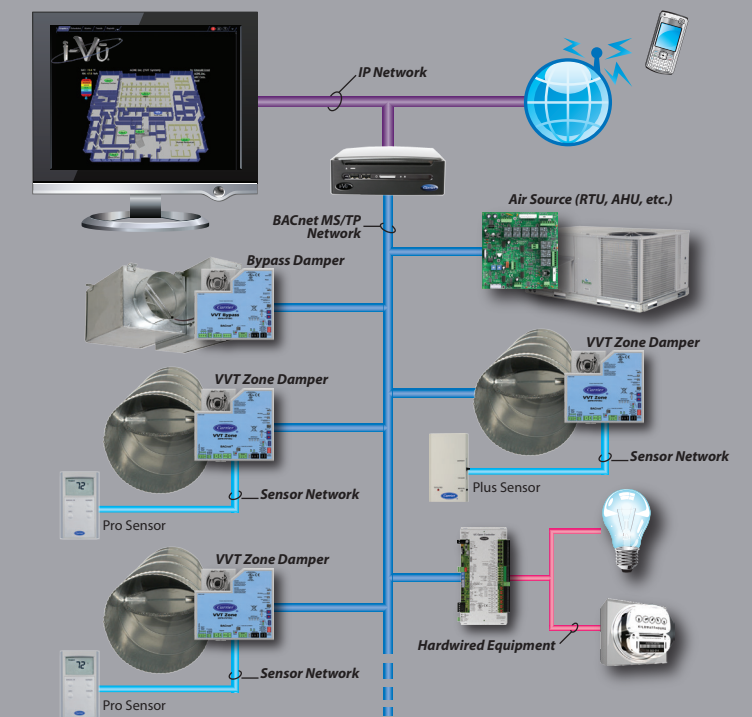
Because a typical building experiences peak cooling conditions approximately 3% of the time, leaving 97% in part-load conditions, the U.S. Department of Energy (DOE) and other industry regulators have begun to rely on the Integrated Energy Efficiency Ratio (IEER) as the new standard for measurement. The IEER standard measures efficiency in part-load conditions — representing the vast majority of the operating year.

The recent U.S. DOE Rooftop Packaged Unit Challenge specified only IEER, not EER (Energy Efficiency Ratio). Few companies undertook the challenge — but the Carrier WeatherExpert™ 48/50LC exceeded the target IEER by 15%.

Some WeatherExpert 48/50LC models surpass current efficiency standards by significant amounts:

- ASHRAE 90.1 levels up to 87%
- ENERGY STAR® levels up to 77%
- CEE² Tier II levels up to 47%
- U.S. DOE Rooftop Unit Challenge levels up to 15%

Carrier rooftops are designed to be compatible with most control options, including Carrier's own i-Vu® controls — an advanced and fully-integrated BACnet®³ control platform that supports constant volume (CV), Staged Air Volume (SAV™) 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 can be used in both retrofit and new building applications.

²CEE - Consortium for Energy Efficiency ³BACnet® is a registered trademark of ASHRAE.