



**Selection Guide**

	Model	Efficiency		Voltage			Refrigerant		Compliance	
		SEER	EER	208/230-1	208/230-3	460-3	R-22	Puron®	ASHRAE 90.1	ENERGY STAR®
Base Series*	50ZPA	13.0	Up to 11.3	✓	✓		✓		✓	
	50ZHA	13.0	Up to 11.3	✓	✓		✓		✓	
Comfort™ Series**	48/50SD	13.0	Up to 11.4	✓	✓	✓	✓		✓	
	48/50SZ	13.0	Up to 11.4	✓	✓	✓	✓		✓	
	48/50ES	13.0	Up to 11.4	✓	✓	✓		✓	✓	
	48/50EZ	13.0	Up to 11.4	✓	✓	✓		✓	✓	
Performance™ Series**	48/50VL	14.0	12.0	✓	✓	✓		✓	✓	✓
	48/50VT	14.0	12.0	✓	✓	✓		✓	✓	✓

\* Base Series offered in PAC and PHP models only.  
 \*\* Product Offering includes PAC, YAC, PHP and HYBRID HEAT® Dual Fuel models.

**Factory-Installed Options, Accessories and Special Order Items**

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| <p><b>Options</b></p> <ul style="list-style-type: none"> <li>■ Louvered Grille</li> <li>■ Vinyl Coated Outdoor Coil</li> <li>■ Copper/Copper Outdoor Coil</li> <li>■ Copper/copper Indoor and Outdoor Coil</li> <li>■ ArmorCoat™ Indoor Coil with 10-Year Warranty</li> <li>■ Stainless Steel Heat Exchanger</li> <li>■ Economizer</li> <li>■ X13 High Static Motor</li> </ul> | <p><b>Accessories</b></p> <ul style="list-style-type: none"> <li>■ Rigging Kit</li> <li>■ Economizer – Internal with Filter Rack</li> <li>■ Manual Outside Air Damper</li> <li>■ Internal Filter Rack with 1” Filter</li> <li>■ 8” and 14” Flat Roof Curb</li> </ul> | <p><b>Special Order</b></p> <ul style="list-style-type: none"> <li>■ Through the Base Utilities</li> <li>■ Non-Fused Disconnect</li> <li>■ Field Powered GFI Outlet</li> <li>■ Split Power</li> <li>■ E-Coat Coil Coating</li> </ul> |
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**Benefits at a Glance**

**For Building Owners and Managers**

- Delivers greater occupant comfort
- Low applied costs
- Reliable performance
- Easy to maintain
- Environmentally sound refrigerant

**For Consulting Engineers**

- Reliable performance
- Puron® refrigerant
- Simple to apply
- Advanced IAQ solutions
- Reduces energy consumption

**For Contractors**

- Extensive factory installed options
- Easy to service
- Easy to start up and operate
- 100% run tested
- Factory and field stocked

**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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Manufacturer reserves the right to discontinue, or change at any time, specifications or designs, without notice or without incurring obligations.



# COMMERCIAL PACKAGED PRODUCTS

1.5 - 5 Ton Offering

## The Expert Choice for Replacements, Retrofits and New Construction

### When It Comes to Comfort, We're All Business

Commercial properties present unique challenges for delivering reliable indoor comfort. That's why it makes sense to turn to Carrier®, the indoor comfort experts. Willis Carrier invented modern air conditioning in 1902 when he discovered a method to control indoor humidity and temperature. Today, we are the world's largest manufacturer of heating, air conditioning and refrigeration solutions, shipping a new product every three seconds. But we deliver more than just the hardware. We offer customized comfort solutions tailored to the needs of modestly sized commercial properties with a comprehensive selection of packaged products for light commercial applications.

### Carrier Small Packaged Products Deliver on All Counts

With Carrier Commercial Packaged Products, you can count on one thing – we can find a solution that meets your needs. Whether you're interested in high, 14.0 SEER / 12.0 EER efficiency or the minimum 13.0 SEER requirement, environmentally sound Puron® refrigerant, HYBRID HEAT® Dual Fuel systems, application flexibility, rugged durability, or all of the above, we can accommodate you. Offering solutions in single phase, 240-volt three-phase or 460-volt three-phase systems, Carrier ensures the comfort of a building's occupants while delivering a solid return on the initial investment.



**Base Series with R-22 Refrigerant**

- 50ZPA - Electric Cooling / Electric Heating
- 50ZHA - Packaged Heat Pump
- 2-5 Tons

### Optimum Efficiency

When a high-efficiency packaged product is installed in a light commercial application, everybody wins. Building owners and managers will appreciate the lower operating costs. Building occupants will enjoy the comfort these units provide even as outdoor conditions demand peak performance. That's why Carrier is excited to offer units with high, 14.0 SEER efficiency that also deliver a high, 12.0 EER cooling efficiency.

**14.0**  
SEER  
RATING

**12.0**  
EER  
RATING

The EER is important because it is the measure of the system's ability to provide cool comfort and energy efficiency during peak load operating conditions when the system may be running constantly. The higher the EER, the less energy is used during those peak load periods which ultimately helps reduce the system's overall operating expenses.

It's important to note that a packaged air conditioner with a high SEER doesn't always offer a high EER as well. That's why our Performance™ Series 14.0 SEER / 12.0 EER packaged product is a perfect solution for light commercial applications – it delivers high-efficiency when you need it the most.

### Durability/Reliability

Comfort and efficiency benefits will be felt for years to come because Carrier goes to great lengths to ensure product durability and reliability. It starts with high quality materials and craftsmanship, like our smooth-running scroll compressor, corrosion-resistant coils and heat exchangers, and heavy-duty galvanized steel cabinet panels. The quality control continues with rigorous testing for applications up to 125 degrees – a full 10 degrees higher than industry standards. We run-test 100% of our finished products and stand behind each and every one with written warranties.



**Comfort™ Series with R-22 Refrigerant**

- 50SD - Electric Cooling / Electric Heating
- 48SD - Electric Cooling / Gas Heating
- 50SZ - Packaged Heat Pump
- 48SZ - HYBRID HEAT® Dual Fuel System
- 1.5-5 Tons

**New Flush-Mounted, Factory-Installed Economizer**  
Offered with 3, 3.5, 4 and 5 ton units in down-flow configuration.



Shown with optional louvered hail guards.

### Installation Flexibility

All Carrier commercial packaged products offer the installation flexibility to meet virtually any application. Starting with a consistent footprint that dates back to our 10.0 SEER models, these units are perfect for replacements, retrofits and installations on roof curbs. Shipped for horizontal applications, they convert easily for vertical/downshot installations. For even greater flexibility, supply and return air can be routed in different directions – one can be horizontal while the other is vertical. Even when unique building designs require placement against



**Comfort™ Series with Puron® Refrigerant**

- 50ES - Electric Cooling / Electric Heating (1.5-5 tons)
- 48ES - Electric Cooling / Gas Heating (1.5-5 tons)
- 50EZ - Packaged Heat Pump (2-5 tons)
- 48EZ - HYBRID HEAT® Dual Fuel System (2-5 tons)

### Environmental Leadership

Carrier high-efficiency commercial packaged products reduce energy consumption and thus environmental impact. Higher efficiency products consume fewer of the Earth's resources, and because our commercial packaged products achieve a high EER rating, they continue to conserve energy even during more extreme conditions. As a result, you should see reduced operating costs throughout the life cycle of the system. Further reducing these products' impact on our surroundings is the environmentally sound Puron® refrigerant, which does not deplete the ozone layer.

Carrier introduced Puron refrigerant a full six years ahead of the competition, paving the way for the future of indoor comfort. And as we approach the year 2010 and the phase-out of Hydrochlorofluorocarbons (HCFC), including R-22, controlling future heating and cooling costs is as simple as investing in systems with Puron refrigerant today.

### Customized Comfort Control

The best way to offer maximum control of indoor environments is to start with a comprehensive product offering. Then, to take it to a still higher level, we offer a full complement of performance-enhancing accessories so you can customize your system to best fit your application.

#### ● Economizer

Our economizer extends system efficiency by delivering outside ventilation air and cooling when the outside air is suitable enough to meet the demand, without running the system's compressor. New factory installed economizers and accessory field installed economizers are available on 3- to 5-ton models that deliver improved fan performance with new motor and economizer technology.

#### ● Manual Outside Damper

Allows outside air to mix with conditioned air to enhance indoor air quality and help meet local building code ventilation air requirements.

#### ● Convenience Outlet

120-volt, 15 amp ground fault outlet allows servicing technicians a convenient location to plug in power tools. This feature helps eliminate the time and inconvenience of running extension cords.



**Performance™ Series with Puron® Refrigerant**

- 50VL - Electric Cooling / Electric Heating (1.5-5 tons)
- 48VL - Electric Cooling / Gas Heating (1.5-5 tons)
- 50VT - Packaged Heat Pump (2-5 tons)
- 48VT - HYBRID HEAT® Dual Fuel System (2-5 tons)

Designed, built and backed by the innovative leader in indoor comfort, Carrier commercial packaged products provide the most comprehensive line of solutions to fit your commercial heating and cooling needs.