



48/50HJ SERIES

# High-Efficiency Weathermaster™ Rooftops

3-12.5 TONS



INDUSTRY-LEADING EFFICIENCY AND PERFORMANCE



# High Efficiency, Quiet Operation, Powerful Control: The Weathermaster™ 48/50HJ Series.

Smaller, one-story buildings like schools and restaurants typically have smaller operating budgets to match. Yet their heating, cooling, and ventilation needs are significant, whether they house classrooms or health clubs, offices or steaming kitchens.

That's why the 48/50HJ Series of Carrier Weathermaster rooftops is ideal for these applications. Quite simply, the HJ Series features some of the highest efficiencies in the industry. It's quiet, too, and is available with powerful direct digital controls.

So, in addition to lower operating costs, the 48/50HJ Series delivers finely tuned temperature, humidity, and air quality. Unobtrusive sound levels. More comfortable, more productive tenants. And satisfied customers.

## Top-Line Efficiency, Bottom-Line Savings.

We designed the 48/50HJ Series rooftops around you, and your demands for a high-efficiency HVAC system for smaller buildings. That means everything about them, from the compressor to the features that help lighten its load, is high-performance — engineered to save you money.

A wide range of rooftop sizes lets you choose the capacity that will operate most efficiently and cost-effectively for your space. Inside, you'll find reliable, fully hermetic **scroll compressor technology** that maximizes efficiency as it minimizes service and maintenance expense — day after day, year after year.

Increasing energy efficiency and rooftop performance even further is a wide range of options:

Take advantage of free cooling provided by outside air with Carrier's **EconomiSer™**, an advanced, high-performance damper control system. Gear-driven, it has no linkage to bind, so there's no economizer-related downtime.



**MoistureMiSer™**, our exclusive, patented dehumidification technology, creates a comfortable, healthy environment while it helps protect buildings and computer systems from damage caused by excess humidity — a real plus in restaurant kitchens and school cafeterias.

With its self-contained refrigeration system, MoistureMiSer cools supply air well below normal temperatures, then reheats the air to prevent overcooling, increasing latent capacity and reducing up to 40 percent more moisture.



For the highest latent capacity in a small rooftop, combine MoistureMiSer with **Energy\$Recycler™**.

Energy\$Recycler adds another stage of heating and cooling to vertically ducted units. It takes in cooler exhaust air, then cools and dehumidifies the air before it enters the rooftop, recovering energy while providing needed ventilation.

Besides being an ideal dehumidification solution for high-latent loads, Energy\$Recycler enhances rooftop performance, allowing you to downsize tonnage.

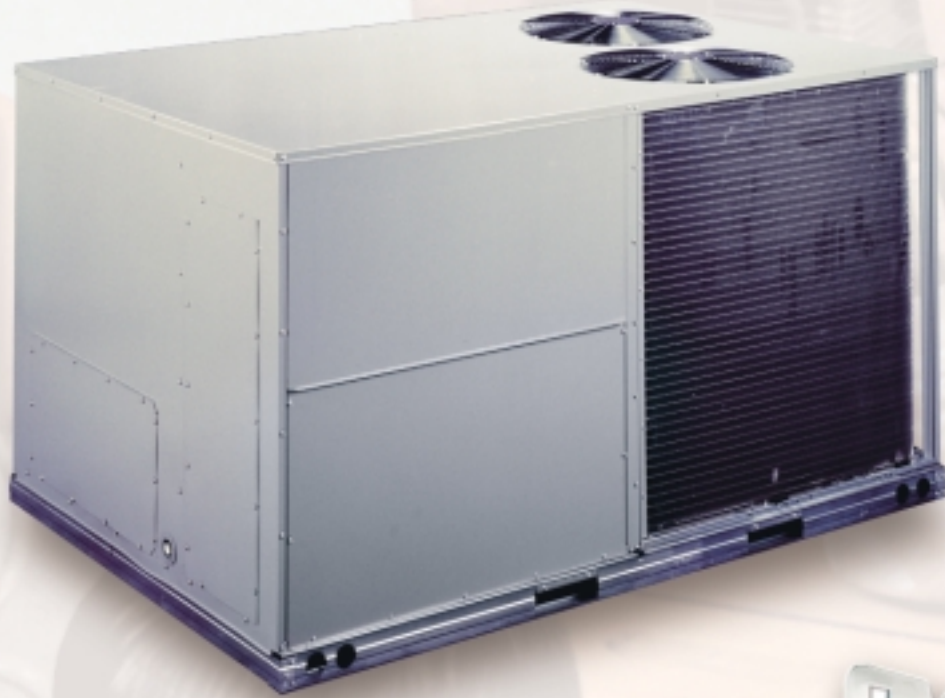
And because the rooftop operates efficiently at less than full capacity, you can utilize Carrier's part-load strategy for a total system cost advantage.

Energy\$Recycler is available in a range of capacities (600, 1000, 2000, 3000 cfm). Easier to install and maintain than an energy recovery wheel, it mounts with an accessory kit that requires no additional curb support, reducing installation costs.

**Power exhaust** replaces the standard exhaust hood to reduce zone pressurization and increase fresh air circulation.

The two-stage fan system is another easy-to-install way to optimize rooftop performance.





## A Sound Choice for Happier, More Productive Tenants.

Students, office workers, and customers shouldn't be distracted by noisy air conditioning systems. On the 48/50HJ Series, inherently quiet scroll compressors are equipped with **internal vibration isolators** and mounted on independent plates for additional sound integrity. Together with efficient condenser fan and motor designs, they allow the rooftop to operate quietly and unobtrusively.

## The Power to Control and Communicate.

Available on the 48/50HJ Series rooftops is **PremierLink™**, a powerful direct digital control system that is simple to use, yet offers advanced capabilities that help maintain comfort and contain costs.

Not only is it fully compatible with Carrier Comfort Network™ building-wide controls, **PremierLink** can also be Internet-ready for control from a remote location. It communicates with EconomiSer and carbon dioxide sensors as well, to provide demand controlled ventilation (DCV) and compliance with ASHRAE 62-99.

When paired with PremierLink, Carrier's **Navigator™** speeds preventive maintenance and repairs, reducing downtime. Service technicians can plug this intuitive diagnostic tool into the main control panel of any size rooftop — or into the panel of one in a series of daisy-chained rooftops — for detailed information in plain language, not codes.



The optional **Thermidistat™** is a combination humidistat and thermostat that works in conjunction with MoistureMiSer and Energy\$Recycler. The programmable, low-voltage control offers separate set points for heating and cooling and separate dehumidification set points for occupied and unoccupied periods — all in a single unit.



## A Durable, Long-Term Investment.

Like all Weathermaster rooftops, the 48/50HJ Series is designed to stand up to the harshest conditions, for years of trouble-free operation.

Components are durable, from the galvanized steel cabinet to the single, continuous top that eliminates leaks. And an optional **Technicoat postcoating** adds a layer of protection to condenser and evaporator coils, sealing them against the elements and corrosion.

The 48/50HJ Series also reduces labor costs, with two standard curb sizes that speed both new-unit installation and retrofits. A variety of **service options** — including hinged access panels, a disconnect switch, and a convenience outlet — helps technicians work quickly and efficiently.

**Standard safety features** include a high/low pressure switch and Freezstats.

*Because air quality is important indoors and out, Carrier offers low-NOx rooftops that comply with regulations in Air Quality Management Districts.*

AQMD



## Handled With Care — Before and After the Sale.

At Carrier, we put as much energy into delivering and maintaining your Weathermaster™ Series 48/50HJ rooftop as we do into designing and building it. An innovative coil protection system ensures that your unit arrives in factory condition, and expert service and support after the sale keep it running at peak performance.

To learn more about 48/50HJ Series rooftops, contact your local Carrier representative, call 1-800-CARRIER, or visit [www.carrier.com](http://www.carrier.com).

## ARI\* Capacity Ratings 48HJ

Unit 48HJ	Nominal Tons	Standard CFM	Cooling (Btuh)	Total kW	SEER†	EER	Sound Rating (Bels)	IPLV
E/F004	3	1200	36,000	3.21	13.0	11.20	7.6	**
D/E/F005	4	1450	47,000	4.25	13.0	11.05	7.6	**
D/E/F006	5	1750	61,000	5.55	13.0	11.00	8.0	**
D/E/F007	6	2100	74,000	6.70	—	11.00	8.0	**
D/E/F008	7.5	3000	90,000	8.18	—	11.00	8.2	11.6
D/E/F009	8.5	3000	102,000	9.44	—	10.80	8.2	10.9
D/E/F012	10	3200	120,000	10.91	—	11.00	8.4	9.7
D014	12.5	4300	139,000	14.04	—	9.5	8.6	9.8
E014	12.5	4300	139,000	14.04	—	9.5	8.6	9.4

## 50HJ

Unit 50HJ	Nominal Tons	Standard CFM	Net Cooling Cap (Btuh)	Total kW	SEER†	EER	Sound Rating (Bels)
004	3	1200	36,000	3.21	13.00	11.20	7.6
005	4	1450	47,000	4.25	13.00	11.05	7.6
006	5	1750	61,000	5.55	13.00	11.00	8.0

Unit 50HJ	Nominal Tons	Standard CFM	Net Cooling Cap (Btuh)	Total kW	EER	Sound Rating (Bels)	IPLV
007	6	2100	74,000	6.70	11.00	8.0	**
008	7.5	3000	90,000	8.18	11.00	8.2	11.6
009	8.5	3000	102,000	9.44	10.80	8.2	10.9
012	10	3200	120,000	10.91	11.00	8.4	11.4
014	12.5	4300	139,000	14.04	9.80	8.6	9.9

### LEGEND

Bels — Sound Levels (1 bel = 10 decibels)

EER — Energy Efficiency Ratio

IPLV — Integrated Part-Load Values

SEER — Seasonal Energy Efficiency Ratio

\* Air Conditioning and Refrigeration Institute.

† Applies only to units with capacity of 65,000 Btuh or less.

\*\* The IPLV applies only to 2-stage cooling units.

1. Rated in accordance with ARI Standard 210/240 (004-012 units) or 360 (014 units) and 270 (004-014 units).

2. Ratings are net values, reflecting the effects of circulating fan heat.

3. Ratings are based on:

Cooling Standard: 80°F db, 67°F wb indoor entering-air temperature and 95°F db outdoor entering-air temperature.

IPLV Standard: 80°F db, 67°F wb indoor entering-air temperature and 80°F db outdoor entering-air temperature.



*As the world leader in Heating, Ventilation and Air Conditioning, Carrier is committed to continually improving the quality of comfort we provide to our customers.*

*But our level of responsibility extends well beyond ...*

*Carrier Corporation has identified six specific areas which directly impact how we, as a world manufacturer, balance our customers' needs for comfort with the environment's needs for responsible consumption.*

*These symbols graphically represent our six areas of concentration and will serve as visual reminders of the importance of managing our finite resources.*

*Each one of us at Carrier Corporation believes that, for generations to come, success will not only be measured by the quality of our products and systems, but also by how we have improved the quality of life.*



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Specifications subject to change without notice.

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