

# :: welcome to the rebirth of cool

The all-new Rheem® Commercial Renaissance™ Line



**7.5–12.5 Ton Package Air Conditioners**  
(RACDZT, RACDZS, RACDZR)

**7.5–12.5 Ton Package Gas Electric Units**  
(RGEDZT, RGEDZS, RGEDZR)

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**TRADE GUIDE**

# renaissance™

COMMERCIAL 7.5–12.5 TON HVAC LINE

*A revival of innovation and performance in commercial HVAC.*



Some masterpieces are created from paint or stone. Ours, from metal.

## INTRODUCING THE RHEEM® COMMERCIAL 7.5–12.5 TON RENAISSANCE LINE—

the culmination of years of research and development, creative engineering and innovation. Crafted with smart new features, exclusive PlusOne® advantages, all delivered with our world-renowned performance and dependability, the Renaissance Line is a signature piece in our growing portfolio of industry-leading, commercial HVAC solutions.

## TIER COMPARISON

Models	Single-Stage Cooling	Two-Stage Cooling	2018 DOE Efficiency Standards Compliant	2023 DOE Efficiency Standards Compliant	VFD Technology	HumidiDry™
<b>Commercial Prestige® Series</b> (RACDZT, RGEDZT)		✓	✓	✓	✓	Option
<b>Commercial Classic Plus® Series</b> (RACDZS, RGEDZS)		✓	✓		Option	Option
<b>Commercial Classic® Series</b> (RACDZR, RGEDZR)	✓		✓			

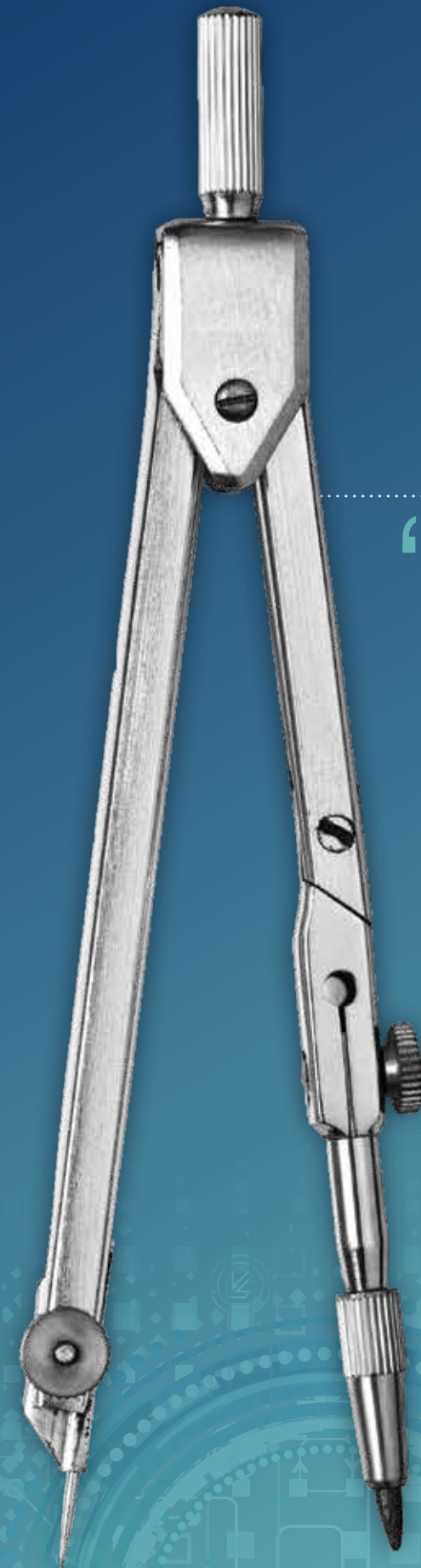
Based on inspired thinking  
and innovative problem solving—  
a refined solution to enhance productivity.



Redesigned for today's demanding commercial applications, the Renaissance™ Line is packed with smart thinking—like high-quality critical components, lean manufacturing processes and robust design features—including the strengthened, solid, single-piece top, durable panels, plus Scroll™ compressor technology. It's innovative Rheem® engineering that delivers easy installability, smart serviceability and industry-leading efficiencies for uptime dependability in a wide range of rooftop environments.

- Simple drop-in replacement—cutting installation time in half for substantial cost savings
- Build-to-order systems for all efficiency levels
- *Prestige*® Series models are 2023 DOE Efficiency Standards Compliant right now
- First system in the dehumidification market with built-in Variable Frequency Drive (VFD)\*

\*VFD Technology and HumidiDry™ are not available on Classic® Series models.



“ **Simplicity** is the  
ultimate sophistication. ”

—Leonardo DaVinci

# The all-new Renaissance™ Line. Genius.

Our engineers were given a challenge. Create an innovative package rooftop product line to meet the new demands of a wide range of commercial applications. They delivered an inspired solution that improves every aspect from replacement to dependability and from installability to serviceability.

## PLUSONE® DIAGNOSTICS

Dual 7-Segment LED Display delivers enhanced diagnostics with easy-to-understand fault codes.



PlusOne®  
Diagnostics

## NEW FEATURE

### External Lockable Gauge Ports

Provides the ability to measure operating pressures without opening the cabinet door and without affecting the performance of the unit.

## NEW FEATURE

### Condenser Coil Protection

Our optional factory-installed, pre-coated condenser coils are designed to withstand the harshest environments, minimizing downtime.

## NEW FEATURE

### Improved Footprint

Drop-in replacement eliminates the need for a new curb adapter — cutting installation time in half for substantial cost savings.

## PLUSONE® SERVICESMART

### Qwik-Change Flex-Fit Rack

Allows easy changeover between 2" and 4" filters with standard and readily available sizes.



PlusOne®  
ServiceSmart

## PLUSONE® HUMIDIDRY™

The first in the dehumidification market to incorporate a VFD that operates at a lower speed on first-stage cooling, when in reheat mode and when operating in occupied fan mode; this saves energy, enhances performance and increases comfort.



PlusOne®  
HumidiDry™

## PLUSONE® SERVICESMART

### Qwik-Clean Drain Pan

Composite material pan that slides out completely for easy cleaning and features a standard overflow sensor.



PlusOne®  
ServiceSmart

## PLUSONE® SERVICESMART

### Qwik-Slide Blower Assembly

Extremely easy access and removal of blower assembly to service internal components, such as blower motor, TXV and microchannel coil.



PlusOne®  
ServiceSmart



Part of the 360<sup>+1</sup>  
family of innovative  
air and water products.

\* HumidiDry is not available as an option on Classic® Series Air Conditioners or Gas Electric models.

“ **Perfection** is not when there is nothing left to add, but... nothing left to take away. ”

—Antoine de Saint-Exupéry

:: the next level of efficiency—  
a new era in savings.

We know energy efficiency, savings, compliance and guarantees are important to you. That's why we've re-engineered the Renaissance™ Line from the ground up—all to meet the exacting standards of the industry as well as our customers. The Renaissance Line delivers a smart mixture of enhanced energy cost savings, available rebates, regulation compliance and an industry-leading warranty.

## High-Efficiency Savings

The Renaissance Line delivers improved energy savings of over 30% when compared to current baseline technology available in most commercial units operating in the marketplace—translating into savings of thousands of dollars over the life of the equipment.

## Customized Solutions

The Renaissance Line offers a breadth of heating and cooling solutions and build-to-order systems to suit the customer's business needs, design and application requirements—so there's no need to overpay for unnecessary “packages.” The efficiency level and factory-installed options needed are chosen, with most factory-installed options and field-installed accessories available across all product tiers\*—ensuring customers get a customized solution to suit their business needs.

## Rebate Opportunity

With industry-leading efficiencies of up to 14.8 IEER, the Renaissance Line may qualify for a variety of utility rebates—helping business customers realize substantial savings for a greater return on their investment, at purchase and year after year.



\*VFD Technology and HumidiDry™ are not available on Classic® Series models.

## COMMERCIAL PRODUCT SPECIFICATIONS

### PACKAGE GAS ELECTRIC UNITS

:: visionary form meets flexible function.

From new construction to replacement projects and more, the new Rheem® Commercial 7.5–12.5 Ton Renaissance™ Line offers a breadth of commercial heating and cooling products that meet all design and application requirements. Whether your customers are retail, hotels, restaurants, offices, schools, senior care or gyms, you'll have the ability to connect a new, customized Renaissance unit quickly and efficiently, providing comfort and peace-of-mind.



### DOE Efficiency Standards Compliant

Loaded with innovative and improved technologies for compliance with the Department of Energy's (DOE) new IEER standards effective January 2018—plus, we're ready RIGHT NOW for 2023 regulations.

### California Title 24 / ASHRAE 90.1 Compliant

Achieves superior energy efficiency and performance with our exclusive PlusOne® features to meet ASHRAE 90.1-2007\*, ASHRAE 90.1-2013, ASHRAE 62.1 and California Title 24 regulations.

### Guaranteed Performance

Our industry-leading commercial limited warranty includes:

- Stainless Steel Heat Exchanger – 20 Years
- Aluminized Heat Exchanger – 10 Years
- Scroll™ Compressor – 5 Years
- All Other Parts – 1 Year

\*Applies to RGEDZR and RACDZR models only.

Model	Nominal Tonnage	COOLING DATA				HEAT INPUT		PHYSICAL DATA	
		Gross Capacity (BTUH)	AHRI Rated Net Capacity (BTUH)	Nominal CFM/AHRI (CFM)	IEER	Standard (BTUH)	High (BTUH)	Dimensions H x W x L (inches)	Shipping Weight (lbs)
RGEDZR090A**15	7.5	88000	85000	3000/3175	12.7	105,000	150,000	50.5 x 60 x 89.5	878
RGEDZR090A**20	7.5	88000	85000	3000/3175	12.7	166,000	205,000	50.5 x 60 x 89.5	878
RGEDZR102A**15	8.5	99000	96000	3400/3200	12.7	105,000	150,000	50.5 x 60 x 89.5	907
RGEDZR102A**22	8.5	99000	96000	3400/3200	12.7	182,000	225,000	50.5 x 60 x 89.5	907
RGEDZR120A**15	10	118000	114000	4000/3480	12.7	105,000	150,000	50.5 x 60 x 89.5	935
RGEDZR120A**22	10	118000	114000	4000/3480	12.7	182,000	225,000	50.5 x 60 x 89.5	935
RGEDZS090**15	7.5	88000	85000	3000/3175	12.7	105,000	150,000	50.5 x 60 x 89.5	878
RGEDZS090**22	7.5	88000	85000	3000/3175	12.7	166,000	205,000	50.5 x 60 x 89.5	878
RGEDZS102**15	8.5	99000	96000	3400/3225	12.7	105,000	150,000	50.5 x 60 x 89.5	907
RGEDZS102**22	8.5	99000	96000	3400/3225	12.7	182,000	225,000	50.5 x 60 x 89.5	907
RGEDZS120**15	10	118000	114000	4000/3480	12.7	105,000	150,000	50.5 x 60 x 89.5	935
RGEDZS120**22	10	118000	114000	4000/3480	12.7	182,000	225,000	50.5 x 60 x 89.5	935
RGEDZS150**15	12.5	150000	144000	5000/3750	12.2	105,000	150,000	60.5 x 60 x 89.5	1133
RGEDZS150**22	12.5	150000	144000	5000/3750	12.2	158,000	225,000	60.5 x 60 x 89.5	1133
RGEDZT090**15	7.5	88000	85000	3000/3175	14.6	105,000	150,000	50.5 x 60 x 89.5	878
RGEDZT090**22	7.5	88000	85000	3000/3175	14.6	166,000	205,000	50.5 x 60 x 89.5	878
RGEDZT102**15	8.5	99000	96000	3400/3200	14.6	105,000	150,000	50.5 x 60 x 89.5	907
RGEDZT102**22	8.5	99000	96000	3400/3200	14.6	182,000	225,000	50.5 x 60 x 89.5	907
RGEDZT120**15	10	118000	114000	4000/3480	14.6	105,000	150,000	50.5 x 60 x 89.5	935
RGEDZT120**22	10	118000	114000	4000/3480	14.6	182,000	225,000	50.5 x 60 x 89.5	935
RGEDZT150**15	12.5	150000	144000	5000/3750	14	105,000	150,000	60.5 x 60 x 89.5	1133
RGEDZT150**22	12.5	150000	144000	5000/3750	14	158,000	225,000	60.5 x 60 x 89.5	1133

### PACKAGE AIR CONDITIONERS

Model	Nominal Tonnage	COOLING DATA				HEAT INPUT		PHYSICAL DATA	
		Gross Capacity (BTUH)	AHRI Rated Net Capacity (BTUH)	Nominal CFM/AHRI (CFM)	IEER	Low	High	Dimensions H x W x L (inches)	Shipping Weight (lbs)
RACDZR090	7.5	88000	85000	3000/3175	12.9	N/A	N/A	50.5 x 60 x 89.5	775
RACDZR102	8.5	99000	96000	3400/3200	12.9	N/A	N/A	50.5 x 60 x 89.5	801
RACDZR120	10	118000	114000	4000/3480	12.9	N/A	N/A	50.5 x 60 x 89.5	830
RACDZS090	7.5	88000	85000	3000/3200	12.9	N/A	N/A	50.5 x 60 x 89.5	775
RACDZS102	8.5	99000	96000	3400/3225	12.9	N/A	N/A	50.5 x 60 x 89.5	801
RACDZS120	10	118000	114000	4000/3480	12.9	N/A	N/A	50.5 x 60 x 89.5	830
RACDZS150	12.5	148000	142000	5000/4150	12.4	N/A	N/A	60.5 x 60 x 89.5	1032
RACDZT090	7.5	88000	85000	3000/3200	14.8	N/A	N/A	50.5 x 60 x 89.5	775
RACDZT102	8.5	99000	96000	3400/3225	14.8	N/A	N/A	50.5 x 60 x 89.5	801
RACDZT120	10	118000	114000	4000/3480	14.8	N/A	N/A	50.5 x 60 x 89.5	830
RACDZT150	12.5	148000	142000	5000/4150	14.2	N/A	N/A	60.5 x 60 x 89.5	1032

:: customized solutions to help  
grow your business.



## Flexible Product Options

The Rheem® Renaissance™ Line is full of smart options and must-have accessories, which can be factory- or field-installed—ensuring your customers get a customized solution to suit their business needs.

## Faster Lead Time

With Rheem's redesigned, technologically advanced commercial production facility, we make it easy to take advantage of improved factory lead times on build-to-order systems with custom options to help avoid business downtime.

## Rheem Commercial KwikComfort® Financing

Rheem has partnered with Fernwood Capital to offer customized financing plans that meet the specific needs of the customer, allowing them to obtain commercial equipment, with total project costs of \$5,000–\$3 million, that will facilitate their continued business growth.

## Rheem Protection Plus® Plans

Rheem has partnered with AIG® to offer parts and labor extended service agreements, for commercial applications that allow you to provide customers with a full-service, world-class solution for their long-term HVAC needs.



## Wide Product Availability

Rheem offers an ever-expanding range of heating and cooling solutions, plus a vast distribution network across the US and Canada—making it easier than ever to get the right product at the right time and in the right place, driving uptime for your customers.

## :: why Rheem® Commercial?



Building on nearly a century of industry-leading innovations, Rheem was the first manufacturer to include Scroll™ compressor technology and one of the first to offer R-410A package heat pump solutions above five tons. Rheem led the way with micro-channel heat exchangers in 3-5 ton package units—and with the H<sub>2</sub>AC® Rooftop Unit featuring eSync™ Integration Technology—the first-of-its-kind commercial integrated air and water system. The next step in this evolution is the Renaissance™ Line—commercial HVAC solutions designed to provide perfect comfort, flexibility and support for any business application.



**Rheem History.** Brothers Richard and Donald Rheem established Rheem Manufacturing Company in the mid-1920s and began manufacturing water heaters in the 1930s. In 1959, the company became an innovator in the water heating industry. Rheem entered the rapidly growing heating and air conditioning market, expanding again in the late 1960s and 1970s. In 1985, the company acquired Raypak®, a leading producer of copper tube boilers used for swimming pool heating, commercial hot water supply and hydronic heating. Rheem was the first to adapt Scroll compressor technology to its air conditioners in 1994 and launched the first and only commercial integrated air and water heating system, H<sub>2</sub>AC, in 2012.

“ Recognizing the need is the primary condition for design. ”

—Charles Eames



### Rheem-Owned Selection Tool Software

Rheem provides a free software portfolio developed with easy-to-use, smart selection tools you need to specify, select and document all Rheem equipment, including factory-installed options and field-installed accessories, for all commercial applications.



### BAS/EMS Compatible (Building Automation System / Energy Management System)

Every product in the Renaissance Line offers the latest in comfort management technology. Factory-installed ClearControl™, Direct Digital Control (DDC) and sensors can connect to LonWorks™, BACnet® and Modbus® BAS/EMS systems for remote monitoring and precise control—allowing faster problem solving if service is ever required. They also help the unit operate more efficiently and reduce energy costs.



### BIM Support

At Rheem, we're building a comprehensive engineering documentation and imagery content database, so you can more accurately design and estimate job costs in less time. This includes spec data, 2- and 3-D CAD® files and Revit® files that are BIM software compatible.



### Dedicated Technical Support

Uptime is critical to your business customers. That's why Rheem offers a dedicated Support Team standing by to answer your questions—plus with resources such as MyRheem.com, our Innovative Learning Centers, live product assistance and more, Rheem is here to support you at every step.



# :: ready to help your customers create their next commercial masterpiece?

No matter what project you need to spec, the Renaissance™ Line offers you the perfect fit for commercial rooftop applications—delivering masterful performance, easy installability and smart serviceability—plus, industry-leading efficiencies and the world-renowned Rheem® dependability you trust.

Visit [Rheem.com/Renaissance](http://Rheem.com/Renaissance) today.

*In keeping with its policy of continuous progress & program improvement, Rheem reserves the right to make changes without notice.*

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