



95% Thermal Efficiency

Maximizes
Energy Efficiency and
Performance

- Dramatically reduces fuel costs
- Patented heat exchange system
- Eye level display for diagnostics

... and more!

Commercial water heaters
from Rheem-Ruud



SPIDERfire takes the bite out of fuel costs

Rheem-Ruud INNOVATION

SPIDER fire's unique multi-leg heat transfer system is where this new product gets its colorful name. The Rheem-Ruud line of condensing commercial water heaters offers a wide range of BTU inputs, all with ultra-high thermal efficiencies. The result is fuel savings and a higher recovery rate — especially during periods of heavy use.

The heart of the SPIDER fire is its patented heat-exchange system: a series of connected, elongated tubes immersed in the water tank and through which heat is transferred to the water. Generated by the burner at the top of the unit. combustion gases are blown down the large main flue in the center of the unit. The gases then traverse nearly the full length of the unit two more times, extracting as much heat energy as possible. By the end of the cycle, the temperature of the flue gases drops to between 110°F and 140°F and is cool enough for condensation to begin.

Made in America

Manufactured in Montgomery, Alabama, all SPIDER *fire* models come equipped with a 100-gallon storage tank and available in either natural gas or LP.

Third-Party Tested

The Rheem-Ruud SPIDER fire has been extensively tested by a third-party agency for water conditions and temperature, corrosive environments, dust and lint, increased cycling and venting configurations.







Restaurants

Hotels

Laundromats

Applications

With its sleek modern design, the new SPIDER *fire* is engineered to deliver substantial amounts of hot water to meet the needs of larger commercial applications, such as restaurants, office buildings, schools, retail stores, and the like.

SPIDER*fire*

BENEFITS

TO SPECIFYING ENGINEERS

SPIDER *fire* offers ultra-high efficiency and energy savings. With up to a maximum delivery of 460 gallons, its performance will meet the needs of most businesses. Indoor air quality issues can be addressed by drawing combustion air from outside the building with a power direct vent installation. The SPIDER *fire*'s small footprint reduces space requirements and long vent runs can be achieved through the use of low-cost PVC venting materials.

TO CONTRACTORS

SPIDER *fire*'s narrow 26.25 inch diameter fits more easily down stairs and in tight places. Hot and cold water connections on both sides of the jacket provide flexibility during installation, especially during retro fits. The eye level status and diagnostic display is scrollable and reduces guess work, which helps speed up installation and service. Low-cost plastic venting materials can be used for power or power direct vent applications.

TO FACILITIES MANAGERS

Hot water is the second biggest energy user in most buildings, placing it right behind the HVAC system for energy costs. SPIDERfire's energy savings is an attractive solution to escalating costs. Because businesses often have heavy periods of hot water demand daily, SPIDER fire's ability to deliver up to 460 gallons for one hour helps keep you in business. In addition, the easy-to-read status and diagnostic display will help provide key information for fast installation and service. SPIDER fire's standard three year warranty can be increased to five years for additional piece of mind.

SPIDERfire's superb design is built to last





SPIDERfire LCD diagnostic system provides scrollable

diagnostics



SPIDERfire! Multi-leg heat exchanger system is porcelain coated inside and out

Energy-efficient "wet-base" design

Rheem engineered a "wet base" for the lower portion of its flue system, suspending the first two legs of the flue network in water, rather than connecting them to the bottom of the tank. Hot spots are eliminated and the design also boosts efficiency – heat is not lost through the bottom of the tank, as it is with a dry base design.

Easier, less costly venting

The cool temperatures of the flue gases permit venting through standard PVC or CPVC tubing. The low cost plastic venting means the contractor can install the product virtually anywhere, using almost any piping configuration. Depending on the model, an installer can use two-, three- or four-inch venting – further lowering his costs and simplifying his installation.

Power or power direct vent operation

All models can be installed as a single-pipe, power-vented product; or as a two-pipe, power direct-vented product — the latter for environments where negative air pressure or if indoor air quality is a concern. All inputs for SPIDER *fire* are available with ASME certification.

Corrosion-protection

Rheem coats the tubes inside and out with a specially formulated porcelain enamel designed to protect against the effects of condensation.

Highly durable flue design

The unique flue network of the SPIDER *fire* eliminates "hot spots" – which can cause premature failure. It is built to last, even in heavy-commercial applications.

OUR EXCLUSIVE FEATURES

- **SPIDER** *fire* **LCD diagnostic system**: This system is standard on all SPIDER *fire* units, enabling installers and service technicians to monitor key functions and components. LCD display is positioned at eye level offering easy-to-read status. The LCD's memory includes a scrollable, operational history to detail usage patterns and facilitate troubleshooting.
- **Multiple water inlets and outlets:** Two pairs of hot and cold water connections on either side of the water heater jacket provide installation flexibility, especially important in retrofit installations.
- **Slim profile:** Just 26.25 inches in diameter 1.5 to 2 inches smaller than competitive models the SPIDER *fire* fits more easily into tight commercial spaces.
- Full-port, full-flow brass drain valve factory installed: Allows for faster draining and servicing.
- Direct spark-to-flame ignition system
- Warranty: Standard three-year limited warranty can be upgraded to five years.



SPIDER *fire* Gas Specifications

RECOVERY CAPACITIES

In U.S. Gallons/Hr. (GPH) and Liters/Hr. (LPH) at Various Temp. Rises

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	MODEL NUMBER	INPUT (BTU/HR) NAT. & LP	THERMAL EFFICIENCY	UNITS	100°F (56°C)	140°F (78°C)						
	GHE100-130(A)	130,000	95%	GPH	150	107						
				LPH	567	405						
	GHE100-160(A)	160,000	95%	GPH	184	132						
				LPH	698	499						
	GHE100-200(A)	199,000	95%	GPH	229	164						
				LPH	868	620						
	GHE100-250(A)	250,000	93%	GPH	282	201						
				LPH	1068	763						
	GHE100-300(A)	300,000	93%	GPH	338	242						
				LPH	1282	916						
	GHE100-350(A)	350,000	92%	GPH	390	279						
				LPH	1479	1057						

MAXIMUM DELIVERY

In U.S. Gallons and Liters (Includes useable storage and recovery for indicated times)

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MODEL NUMBER	GAL.	LITERS	INPUT (BTU/HR) NAT. & LP	TEMP. RISE	UNITS	5 MIN.	1 HR.	MIN. TO RECOVER CONTENTS			
GHE100-130(A)	100	379	130,000	100°F 56°C	GAL LTR	83 <i>313</i>	220 <i>833</i>	39			
GHE100-160(A)	100	379	160,000	100°F 56°C	GAL LTR	85 <i>323</i>	254 <i>964</i>	33			
GHE100-200(A)	100	379	199,000	100°F 56°C	GAL LTR	89 <i>338</i>	299 1134	26			
GHE100-250(A)	100	379	250,000	100°F 56°C	GAL LTR	94 <i>354</i>	352 1333	21			
GHE100-300(A)	100	379	300,000	100°F <i>56°C</i>	GAL LTR	98 <i>372</i>	408 1547	18			
GHE100-350(A)	100	379	350,000	100°F 56°C	GAL LTR	103 <i>389</i>	460 1745	15			

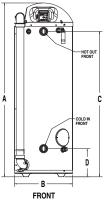
All models have a maximum setpoint of 185°F.

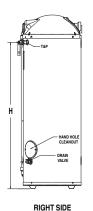
DIMENSIONAL INFORMATION

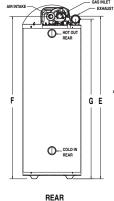
All dimensions shown in English and Metric

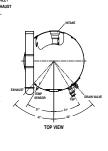
MODEL NUMBER	UNITS	Α	В	C	D	F	F	G	Н	VENT	WATER CO	NNECTIONS OUTLET	APPROX SHIP. WT. (LB) *
NUMBER			_		_					VLIVI	INLLI	OUILLI	Ollir. WI. (LD)
GHE100-130(A)	inches	78-3/4"	26-1/4"†	66"	12-3/4"	73-3/4"	73-5/8"	72-7/16"	66-7/16"	2", 3", 4"	2" NPT	2" NPT	785
anii 100 100(n)	mm	2001	667	1674	325	1873	1869	1839	1687				
GHE100-160(A)	inches	78-3/4"	26-1/4"†	66"	12-3/4"	73-3/4"	73-5/8"	72-7/16"	66-7/16"	2", 3", 4"	", 4" 2" NPT	2" NPT	785
UTIL TOO TOO(A)	mm	2001	667	1674	325	1873	1869	1839	1687	2,3,4			
GHE100-200(A)	inches	78-3/4"	26-1/4"†	66"	12-3/4"	73-3/4"	73-5/8"	72-7/16"	66-7/16"	2", 3", 4"	2" NPT	2" NPT	785
GIIL 100-200(A)	mm	2001	667	1674	325	1873	1869	1839	1687				
GHE100-250(A)	inches	78-3/4"	26-1/4"†	66"	12-3/4"	73-3/4"	73-5/8"	72-7/16"	66-7/16"	3". 4" 2	2" NPT	2" NPT	825
UTIL 100 230(A)	mm	2001	667	1674	325	1873	1869	1839	1687	3,4	Z IVI I		
GHE100-300(A)	inches	78-3/4"	26-1/4"†	66"	12-3/4"	73-3/4"	73-5/8"	72-7/16"	66-7/16"	3". 4"	2" NPT	NPT 2" NPT	825
GIIL 100-300(A)	mm	2001	667	1674	325	1873	1869	1839	1687	0,4	Z 1VI I		020
GHE100-350(A)	inches	78-3/4"	26-1/4"†	66"	12-3/4"	73-3/4"	73-5/8"	72-7/16"	66-7/16"	3", 4"	2" NPT	2" NPT	825
UIIL 100 330(A)	mm	2001	667	1674	325	1873	1869	1839	1687			2 111 1	020











Complete specifications and venting information can be found on RR102C-18, SPIDER fire spec sheet.

ZERO CLEARANCE TO **COMBUSTIBLES**

Models with inputs of 130,000 through 199,000 BTU are certified to vent with 2" schedule 40 pvc, cpvc or abs pipe

(For Canadian installations, please use ULC-S636 PVC and CPVC pipe.)

* Weights listed are for non-ASME. Add 35 lbs. for ASME models.

130.000 - 199.000 BTU models are certified to be installed with 2" venting.

All models require a 120V power source.

See use and care manual for venting details.

† Overall width is 27-5/16" due to exhaust cover











In keeping with its policy of continuous progress and product improvement, Rheem-Ruud reserves the right to make changes without notice.

Commercial water heaters from Rheem-Ruud



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