



**GX90-550 and
GX90-640 Comply
With SCAQMD
Rule 1146.2 for
Low NO_x Emissions**

**Small
Jacket Diameters**

**Short Floor-to-Vent
Heights**

**Multiple Water
Connection Options**



Available in 90 Gallon Tank-Type Models

► 550,000 BTU/Hr. thru 715,000 BTU/Hr.

Xtreme Gas Commercial Water Heaters are specifically designed to minimize the difficulty of replacing failed water heaters and are versatile for new installations. These products are designed for applications requiring large quantities of hot water.

Construction Features:

- **Space saving tank design** – maximizes installation adaptability by offering models with front side and rear side inlet/outlet water connections. Short heights and small jacket diameters result in greater installation flexibility.
- **Patented multi-flue tank design** – proprietary steel formulation, patented multi-flue design, and two coats of high temperature porcelain enamel to maximize corrosion resistance result in a superior heat exchanger design.
- **Low profile automatic flue damper** – low profile design minimizes overall product height. Heavy duty vent hood supports are designed to withstand rigors of installation.
- **Specialized burner assembly** – each model features five premix burners mounted into a metal face plate and sealed with a Viton gasket. Patented “quick release” manifold for easier service.
- **Spark-To-Pilot ignition system** – Standard on all models. Provides reliable and energy saving ignition sequencing by igniting the pilot only when the thermostat calls for heat.
- **System Sentinel™ LED diagnostic system** – Our exclusive diagnostic system, with glowing LED lights, verifies system operation sequence by sequence.
- **Full port, full flow brass drain valve**

Certifications and Ratings:

- **Efficiency** – these models have been tested according to ANSI test procedures, and exceed the thermal efficiency and standby loss requirements of current ASHRAE standards (Part of the Federally mandated Energy Policy Act (EPact)). Also exceeds energy efficiency codes of all states.
- **Safety and construction** – These products are design certified by U.L.:
a) For operation at 180°F. b) To meet all safety and construction requirements of ANSI Z21.10.3-2001 c) As an automatic storage or instantaneous water heater. d) As an automatic circulating tank water heater. e) For operation on combustible floors and in alcove installations.
CERTIFIED FOR A 150 PSI MAXIMUM WORKING PRESSURE (160 PSI FOR ASME MODELS).

| DIMENSIONAL INFORMATION All Dimensions Shown in English and Metric. | | | | | | | | | | | | |
|--|--------|------|------|-----|-----|-----|------|------|-------------------|-----------|-----------------------------|------|
| MODEL NUMBER | UNITS | A | B | C | D | E | F | G | WATER CONNECTIONS | | APPROXIMATE SHIPPING WEIGHT | |
| | | | | | | | | | FRONT SIDE | REAR SIDE | STD. | ASME |
| GX90-550(A) | inches | 74.5 | 68 | 30 | 25 | 10 | 59 | 1 | 2 | 2 | 905 | 945 |
| | mm | 1892 | 1727 | 768 | 635 | 254 | 1509 | 25.4 | 51 | 51 | 905 | 945 |
| GX90-640(A) | inches | 74.5 | 68 | 30 | 25 | 10 | 59 | 1 | 2 | 2 | 905 | 945 |
| | mm | 1892 | 1727 | 768 | 635 | 254 | 1509 | 25.4 | 51 | 51 | 905 | 945 |
| GX90-715(A) | inches | 74.5 | 68 | 30 | 25 | 10 | 59 | 1 | 2 | 2 | 905 | 945 |
| | mm | 1892 | 1727 | 768 | 635 | 254 | 1509 | 25.4 | 51 | 51 | 905 | 945 |
| GX90-500(A) | inches | 74.5 | 68 | 30 | 25 | 10 | 59 | 1 | 2 | 2 | 905 | 945 |
| | mm | 1892 | 1727 | 768 | 635 | 254 | 1509 | 25.4 | 51 | 51 | 905 | 945 |
| GX90-600(A) | inches | 74.5 | 68 | 30 | 25 | 10 | 59 | 1 | 2 | 2 | 905 | 945 |
| | mm | 1892 | 1727 | 768 | 635 | 254 | 1509 | 25.4 | 51 | 51 | 905 | 945 |
| GX90-680(A) | inches | 74.5 | 68 | 30 | 25 | 10 | 59 | 1 | 2 | 2 | 905 | 945 |
| | mm | 1892 | 1727 | 768 | 635 | 254 | 1509 | 25.4 | 51 | 51 | 905 | 945 |

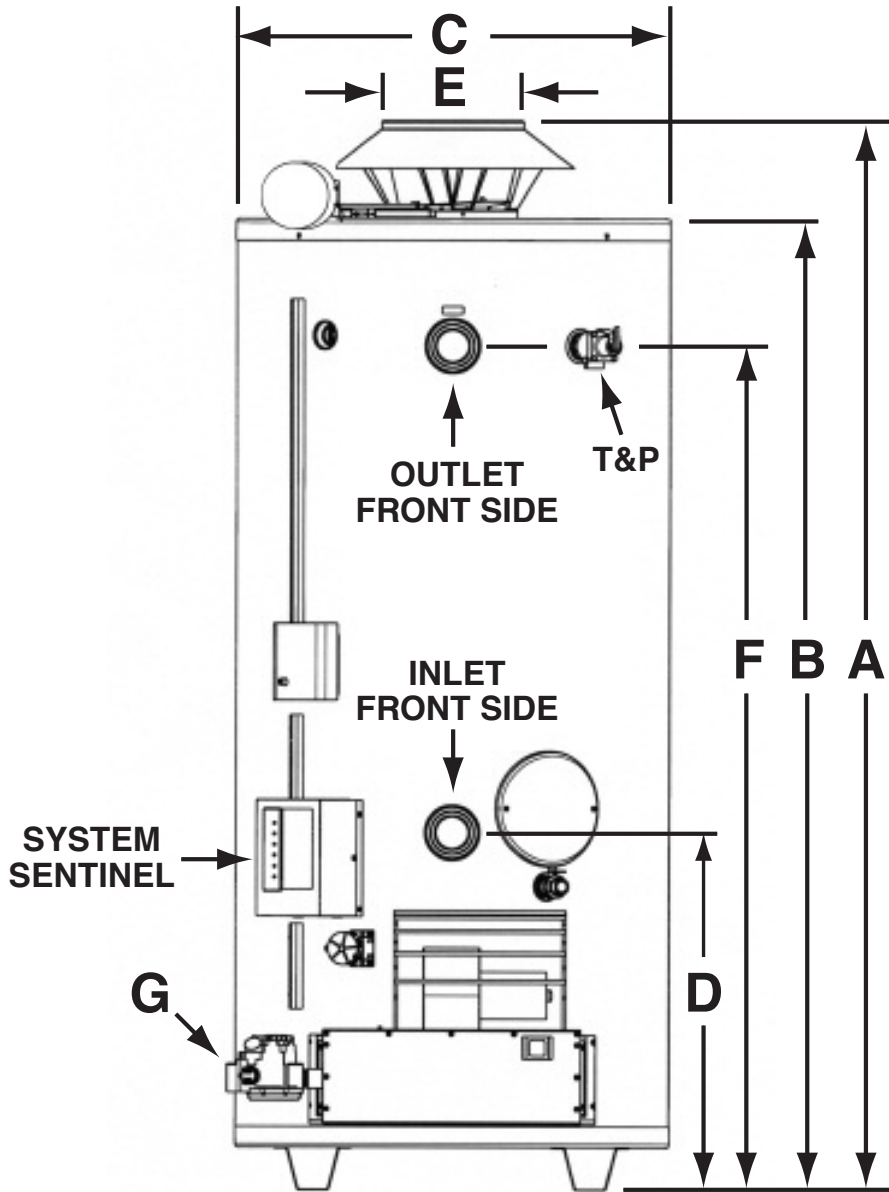
All Models Require a 120V Power Source. (A) Suffix Indicates ASME Tank Construction Available.

| MAXIMUM DELIVERY In U.S. Gallons and Liters. (Includes useable storage and recovery for indicated times.) | | | | | | | | | | | | | | | |
|--|---------------|--------|---------------------------|------------|-------|------|------|------|------|------|------|------|------|------|-----------------------|
| MODEL NUMBER | TANK CAPACITY | | INPUT BTU/HR. NAT. & L.P. | TEMP. RISE | UNITS | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 120 | 180 | Min. to Rec. Contents |
| | GALLONS | LITERS | | | | Min. | Min. | Min. | Min. | Min. | Min. | Min. | Min. | Min. | |
| GX90-550(A) | 90 | 341 | 550,000 NAT | 100°F | GAL. | 107 | 152 | 196 | 241 | 330 | 463 | 596 | 1130 | 1663 | 10 |
| | | | | 37.7°C | LTR. | 407 | 575 | 743 | 911 | 1248 | 1752 | 2257 | 4276 | 6294 | |
| GX90-640(A) | 90 | 341 | 640,000 NAT | 100°F | GAL. | 115 | 166 | 218 | 270 | 373 | 529 | 684 | 1304 | 1925 | 9 |
| | | | | 37.7°C | LTR. | 434 | 630 | 826 | 1022 | 1413 | 2000 | 2587 | 4936 | 7285 | |
| GX90-715(A) | 90 | 341 | 715,000 NAT | 100°F | GAL. | 121 | 179 | 236 | 294 | 410 | 583 | 756 | 1450 | 2143 | 8 |
| | | | | 37.7°C | LTR. | 457 | 676 | 894 | 1113 | 1551 | 2207 | 2863 | 5487 | 8111 | |
| GX90-500(A) L.P. | 90 | 341 | 500,000 LP | 100°F | GAL. | 103 | 144 | 184 | 225 | 305 | 427 | 548 | 1033 | 1518 | 11 |
| | | | | 37.7°C | LTR. | 391 | 544 | 697 | 850 | 1156 | 1615 | 2073 | 3909 | 5744 | |
| GX90-600(A) L.P. | 90 | 341 | 600,000 LP | 100°F | GAL. | 112 | 160 | 209 | 257 | 354 | 499 | 645 | 1227 | 1809 | 9 |
| | | | | 37.7°C | LTR. | 422 | 606 | 789 | 972 | 1340 | 1890 | 2441 | 4643 | 6845 | |
| GX90-680(A) L.P. | 90 | 341 | 680,000 LP | 100°F | GAL. | 118 | 173 | 228 | 283 | 393 | 558 | 722 | 1382 | 2041 | 8 |
| | | | | 37.7°C | LTR. | 446 | 654 | 862 | 1070 | 1486 | 2110 | 2886 | 5230 | 7726 | |

| RECOVERY CAPACITIES Recovery in U.S. Gallons/Hr. (GPH) and Liters/Hr. (LPH) at Various Temperature Rises. | | | | | | | | | | | | | | |
|--|------------------------------|--------------------|-------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| MODEL NUMBER | INPUT BTU/HR. NATURAL & L.P. | THERMAL EFFICIENCY | UNITS | 40°F | 50°F | 60°F | 70°F | 80°F | 90°F | 100°F | 110°F | 120°F | 130°F | 140°F |
| | | | | 22°C | 28°C | 33°C | 39°C | 45°C | 50°C | 56°C | 61°C | 67°C | 72°C | 78°C |
| GX90-550(A) | 550,000 NAT | 80% | GPH | 1333 | 1067 | 889 | 762 | 667 | 593 | 533 | 485 | 444 | 410 | 381 |
| | | | LPH | 5047 | 4037 | 3364 | 2884 | 2523 | 2243 | 2019 | 1835 | 1682 | 1553 | 1442 |
| GX90-640(A) | 640,000 NAT | 80% | GPH | 1551 | 1241 | 1034 | 887 | 776 | 690 | 621 | 564 | 517 | 477 | 443 |
| | | | LPH | 5873 | 4698 | 3915 | 3356 | 2936 | 2610 | 2349 | 2135 | 1958 | 1807 | 1678 |
| GX90-715(A) | 715,000 NAT | 80% | GPH | 1733 | 1387 | 1156 | 991 | 867 | 770 | 693 | 630 | 578 | 533 | 495 |
| | | | LPH | 6561 | 5249 | 4374 | 3749 | 3280 | 2916 | 2624 | 2386 | 2187 | 2019 | 1875 |
| GX90-500(A) L.P. | 500,000 LP | 80% | GPH | 1212 | 970 | 808 | 693 | 606 | 539 | 485 | 441 | 404 | 373 | 346 |
| | | | LPH | 4588 | 3670 | 3059 | 2622 | 2294 | 2039 | 1835 | 1668 | 1529 | 1412 | 1311 |
| GX90-600(A) L.P. | 600,000 LP | 80% | GPH | 1455 | 1164 | 970 | 831 | 727 | 647 | 582 | 529 | 485 | 448 | 416 |
| | | | LPH | 5506 | 4404 | 3670 | 3146 | 2753 | 2447 | 2202 | 2002 | 1835 | 1694 | 1573 |
| GX90-680(A) L.P. | 680,000 LP | 80% | GPH | 1649 | 1319 | 1099 | 942 | 824 | 733 | 659 | 599 | 550 | 507 | 471 |
| | | | LPH | 6240 | 4992 | 4160 | 3565 | 3120 | 2773 | 2496 | 2269 | 2080 | 1920 | 1783 |

Recovery ratings are based on thermal efficiencies obtained in a CSA certified laboratory. Recovery rate shown on the rating plate (80%) Thermal Efficiency in accordance with ANSI Z21.10.3 labeling requirements. (A) indicates available ASME model.

DIMENSIONAL DIAGRAM



| CLEARANCES TO COMBUSTIBLES | | | | |
|----------------------------|--------|------|------|-----|
| MODEL NUMBER | UNITS | SIDE | REAR | TOP |
| GX90-550 | inches | 4 | 4 | 12 |
| | mm | 102 | 102 | 305 |
| GX90-640 | inches | 4 | 4 | 12 |
| | mm | 102 | 102 | 305 |
| GX90-715 | inches | 4 | 4 | 12 |
| | mm | 102 | 102 | 305 |
| GX90-500 | inches | 4 | 4 | 12 |
| | mm | 102 | 102 | 305 |
| GX90-600 | inches | 4 | 4 | 12 |
| | mm | 102 | 102 | 305 |
| GX90-680 | inches | 4 | 4 | 12 |
| | mm | 102 | 102 | 305 |

Allow a minimum of 18" (457mm) front clearance for servicing.
2.5 Amps.



Other Features:

- **Insulation** – sag and moisture proof fiberglass insulation surrounds the storage tank to minimize heat loss.
- **Anode rods** – patented design utilizes multiple magnesium rods to ensure long life and corrosion resistance.
- **Temperature and pressure relief valve** – AGA/ASME rated and factory installed.
- **Hand-hole cleanout** – for removal of lime/sediment deposits.
- **Manual reset high limit** – all models are factory equipped with a manual reset high limit to meet the code requirements of many states.
- **Gas control system** – fully adjustable thermostat from 100°F to 180°F, 24 volt combination gas valve includes main gas pressure regulation, On-Off manual valve, 120/24 volt transformer, and high limit temperature cut-out.
- **Round premix burners** – precision burners are formed from high chromium stainless steel.

Recommended Specifications (for trade reference only)

Water heater(s) shall be XTREME model _____, manufactured by RHEEM-RUUD, having gas input of _____ Btu/hr. and a recovery rate of _____ GPH at a 100°F temperature rise when tested and certified at _____ thermal efficiency. Water heater(s) shall have a storage capacity of 90 gallons. Water heater(s) shall have the U.L. seal of certification and supplied with a factory installed AGA/ASME rated temperature and pressure relief valve. Tank(s) shall be furnished with a tube bundle having a double coating of high temperature porcelain enamel and furnished with magnesium anode rods rigidly supported. Water heater(s) shall meet or exceed the thermal efficiency and standby loss requirements of current ASHRAE standards. Tanks shall have a working pressure rating of 150 psi, and shall be completely factory assembled, including a pressure regulator properly adjusted for operation on _____ gas with chromium stainless steel burners. Controls will be arranged for safety shutoff in event of pilot failure. Water heater(s) shall have front and rear side inlet/outlet water connections. Water heater(s) shall be covered by a three year limited warranty against tank leaks.

Add “A” for ASME construction

Water heater(s) shall be constructed in accordance with the requirements of the ASME Boiler and Pressure Vessel Code, Section IV Part HLW.

Limited Warranty

This product features a three year limited warranty against tank leaks. Please refer to Commercial Warranty Information Certificate for complete warranty information.



**C O M M E R C I A L
W A T E R H E A T E R S**

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

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