



**GX90-550 and  
GX90-640 Comply  
With SCAQMD  
Rule 1146.2 for  
Low NO<sub>x</sub> Emissions**

**Small  
Jacket Diameters**

**Short Floor-to-Vent  
Heights**

**Multiple Water  
Connection Options**

GAS-FIRED



(On Selected  
Models)



## 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 ASHRAE Standard 90.1-2001 (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).**

<b>DIMENSIONAL INFORMATION</b> 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

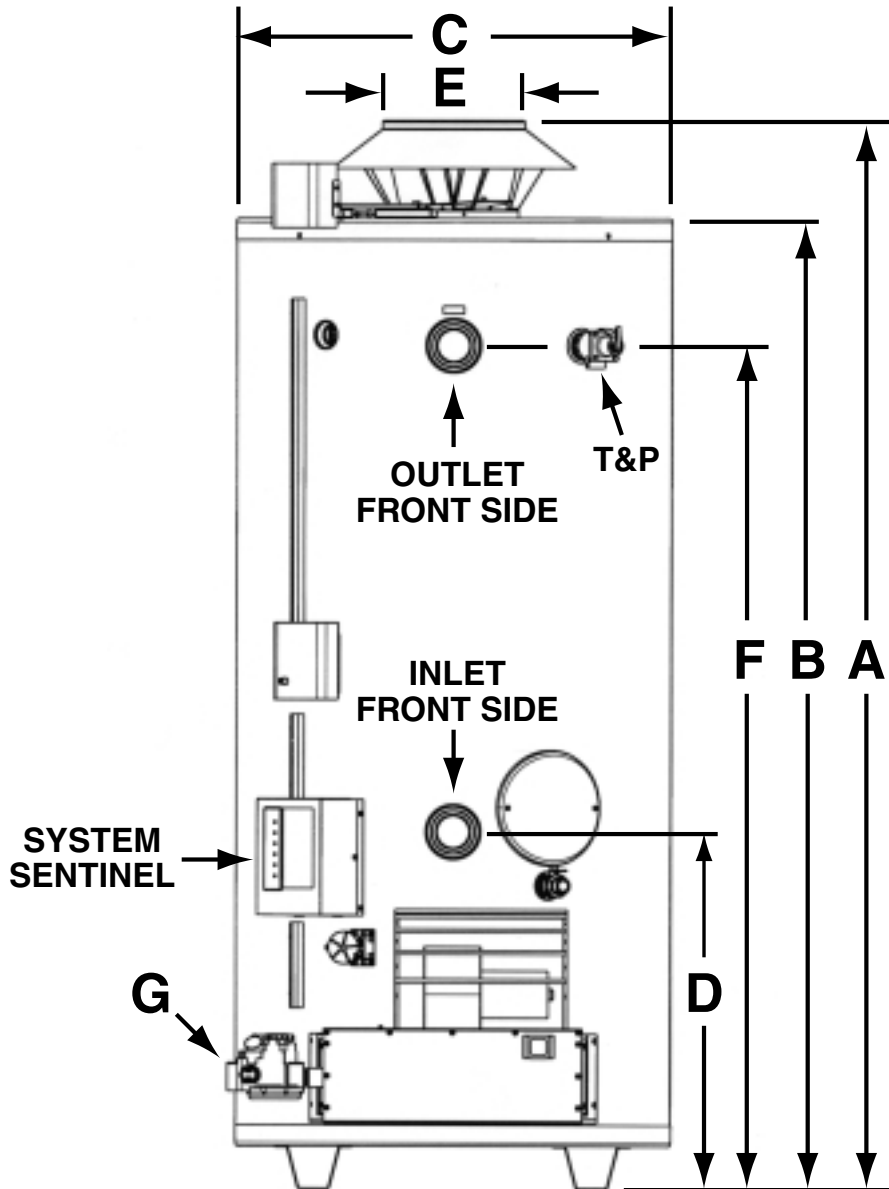
All Models Require a 120V Power Source. (A) Suffix Indicates ASME Tank Construction Available.

<b>MAXIMUM DELIVERY</b> 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	

<b>RECOVERY CAPACITIES</b> 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

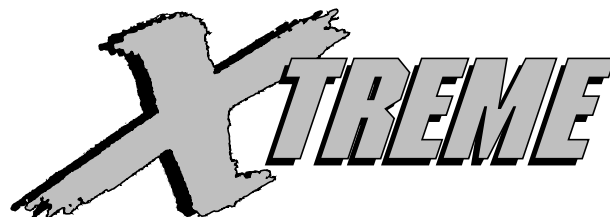
Recovery ratings are based on thermal efficiencies obtained in a CSA certified laboratory. Recovery rate shown on the rating plate (80%) Thermal Efficiency in accordance with ANSI Z21.10.3 labeling requirements. (A) indicates available ASME model.

## 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:

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- **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)

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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 ASHRAE Standard 90.1-2001. 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

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



**COMMERCIAL  
WATER HEATERS**

*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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