



DESIGNED WITH YOU IN MINDSM

GAS TANK-TYPE WATER HEATERS 98,000 BTU/HR. THRU 500,000 BTU/HR.

UNIVERSAL 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:

UNIVERSAL TANK DESIGN – Maximizes installation adaptability by offering models with Top, Front Side and Rear Side Inlet/Outlet water connections.

UNIVERSAL SPACE SAVER DESIGN – Short heights and small jacket diameters result in greater installation flexibility.

PATENTED MULTI-FLUE DESIGN – Proprietary steel formulation, patented multi-flue design, and two coats of high temperature porcelain enamel to maximize corrosion resistance results in a superior heat exchanger design.

LOW PROFILE AUTOMATIC FLUE DAMPER – Low profile design minimizes overall product height. New heavy duty vent hood supports are designed to withstand rigors of installation.

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.

DURABLE 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 90.1b-1992 (Part of the Federally mandated Energy Policy Act (EPact)). Also exceeds energy efficiency codes of all states including California Energy Commission (CEC). Most Universal models meet or exceed 80% thermal efficiencies.

SAFETY AND CONSTRUCTION – These products are design certified by the American Gas Association Laboratories: a) For operation at 180°F. b) To meet all safety and construction requirements of ANSI Z21.10.3. 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. **150 PSI Working Pressure (160 PSI for ASME models).**

OPTIONAL CONSTRUCTIONS – ASME construction is available on designated models. NSF compliant models are available when equipped with optional leg kit. (Part No. AE35450)

UNIVERSAL COMMERCIAL GAS TANK-TYPE WATER HEATERS

RECOVERY CAPACITIES													
MODEL NUMBER	INPUT BTU/Hr. NATURAL & L.P.	THERMAL EFFICIENCY	TEMPERATURE RISE – DEGREES F – GALLONS PER HOUR										
			40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°
G50-98	98,000	80%	238	190	158	136	119	106	95	86	79	73	68
G67-114	114,000	78%	269	216	180	154	135	120	108	98	90	83	77
G82-156	156,000	80%	378	303	252	216	189	168	151	138	126	116	108
G37-160	160,000	80%	388	310	259	222	194	172	155	141	129	119	111
G76-180	180,000	80%	436	349	291	249	218	194	175	159	145	134	125
G76-200	199,900	80%	485	388	323	277	242	215	194	176	162	149	138
G91-200	199,900	80%	485	388	323	277	242	215	194	176	162	149	138
G100-200	199,900	80%	485	388	323	277	242	215	194	176	162	149	138
G72-250(A)	250,000	80%	606	485	404	346	303	269	242	220	202	186	173
G100-250(A)	250,000	80%	606	485	404	346	303	269	242	220	202	186	173
G100-270(A)	270,000	80%	654	524	436	374	327	291	262	238	218	201	187
G72-300(A)	300,000	80%	727	582	485	416	364	323	291	264	242	224	208
G91-300(A)	300,000	80%	727	582	485	416	364	323	291	264	242	224	208
G100-310(A)	310,000	80%	752	601	501	430	376	334	301	273	250	232	215
G65-360(A)	360,000	80%	873	698	582	499	436	388	349	317	291	269	249
G65-400(A)	399,900	80%	969	776	646	554	485	431	388	353	323	298	277
G85-400(A)	399,900	80%	969	776	646	554	485	431	388	353	323	298	277
G100-400(A)	399,900	80%	969	776	646	554	485	431	388	353	323	298	277
G77-500(A)	500,000	80%	1,212	970	808	693	606	539	485	441	404	373	346

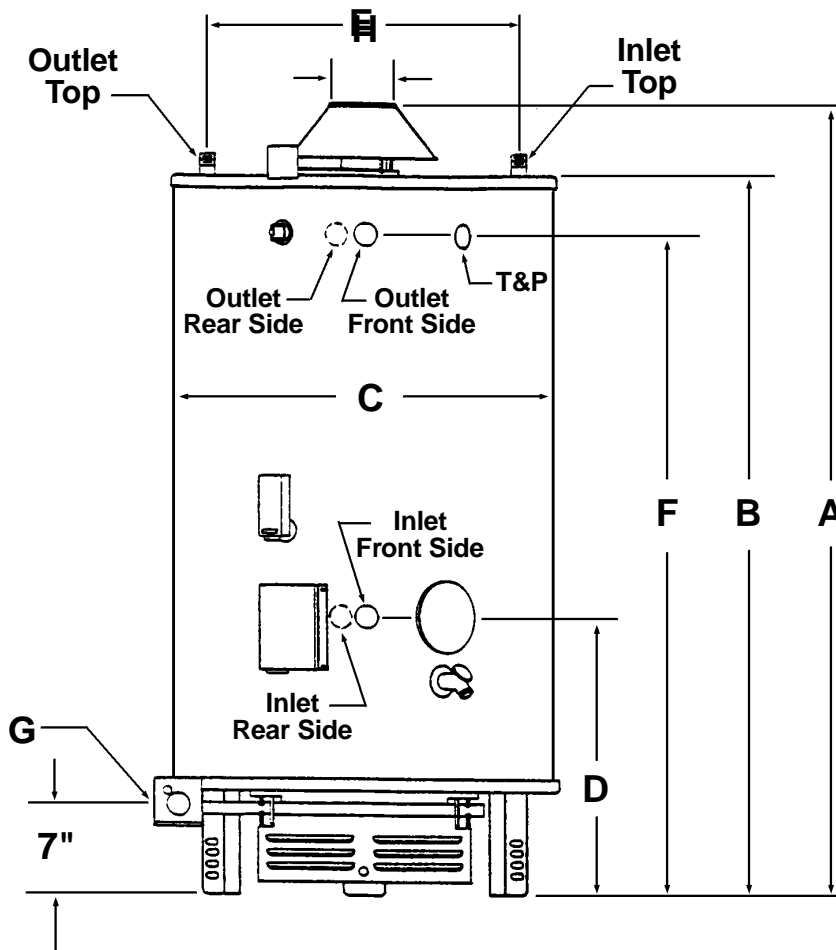
Recovery ratings are based on thermal efficiencies obtained in an AGA certified laboratory. Recovery rate shown on the rating plate (75%) Thermal Efficiency in accordance with ANSI Z21.10.3 labeling requirements. "(A)" indicates available ASME model.

MAXIMUM DELIVERY (in gallons) (Includes useable storage and recovery for indicated times)													
MODEL NUMBER	GALLON CAPACITY	INPUT BTU/Hr. NAT. & L.P.	TEMP. RISE	5 Min.	10 Min.	15 Min.	20 Min.	30 Min.	45 Min.	1 Hr.	2 Hr.	3 Hr.	Min. to Recover Contents
G50-98	50	98,000	100°	43	51	59	67	82	106	130	225	320	32
G67-114	67	114,000	100°	56	65	74	83	101	128	155	263	371	37
G82-156	82	156,000	100°	70	83	95	108	133	171	208	359	510	33
G37-160	37	160,000	100°	39	52	65	78	103	142	181	336	491	14
G76-180	76	180,000	100°	68	82	97	112	141	184	228	403	578	26
G76-200	76	199,900	100°	69	86	102	118	150	199	247	441	635	24
G91-200	91	199,900	100°	80	96	112	128	161	209	258	452	646	28
G100-200	100	199,900	100°	86	102	118	135	167	216	264	458	652	31
G72-250(A)	72	250,000	100°	71	91	111	131	171	232	292	534	776	18
G100-250(A)	100	250,000	100°	90	110	131	151	191	252	312	554	796	25
G100-270(A)	100	270,000	100°	92	114	136	157	201	266	332	594	856	23
G72-300(A)	72	300,000	100°	75	99	123	147	196	269	341	632	923	15
G91-300(A)	91	300,000	100°	88	112	136	161	209	282	355	646	937	19
G100-310(A)	100	310,000	100°	95	120	145	170	220	295	371	672	973	20
G65-360(A)	65	360,000	100°	75	104	133	162	220	307	394	744	1092	11
G65-400(A)	65	399,900	100°	78	110	142	175	240	336	434	822	1210	10
G85-400(A)	85	399,900	100°	92	124	156	189	254	350	448	836	1224	13
G100-400(A)	100	399,900	100°	102	135	167	199	264	361	458	846	1234	15
G77-500(A)	77	500,000	100°	94	135	175	216	296	418	539	1024	1509	10

DIMENSIONAL INFORMATION (All dimensions shown in inches)

MODEL NUMBER	A	B	C	D	E	F	G	H	WATER CONNECTIONS			APPROX. SHIPPING WEIGHT (LBS.)	
									TOP IN/OUT	FRONT SIDE	REAR SIDE	STANDARD	ASME
G50-98	62-3/4	57-1/8	22-1/2	22-5/8	5	50-1/2	1/2	15	1	1-1/2	1-1/2	270	N/A
G67-114	66-1/8	60-1/2	24-1/2	22-1/4	5	53-1/8	1/2	15	1	1-1/2	1-1/2	300	N/A
G82-156	68-13/16	64	26-1/4	25	6	58-5/8	3/4	20	1-1/2	1-1/2	1-1/2	490	N/A
G37-160	48-1/4	43-3/8	26-1/4	25	6	37-5/8	3/4	20	1-1/2	1-1/2	1-1/2	390	N/A
G76-180	68-13/16	64	26-1/4	25	6	58-5/8	3/4	20	1-1/2	1-1/2	1-1/2	540	N/A
G76-200	68-13/16	64	26-1/4	25	6	58-5/8	3/4	20	1-1/2	1-1/2	1-1/2	540	N/A
G91-200	76-5/16	71-13/16	26-1/4	30-5/8	6	66-3/8	3/4	20	1-1/2	1-1/2	1-1/2	600	N/A
G100-200	73-1/16	66-1/8	30-1/4	23-1/4	6	57-1/2	3/4	23	1-1/2	2	2	780	N/A
G72-250(A)	71-1/16	64-1/2	26-1/4	25	6	58-5/8	3/4	20	1-1/2	1-1/2	1-1/2	590	630
G100-250(A)	73-1/4	66-1/8	30-1/4	23-1/4	6	57-1/2	3/4	23	1-1/2	2	2	795	835
G100-270(A)	73-7/8	66-1/8	30-1/4	23-1/4	6**	57-1/2	3/4	23	1-1/2	2	2	805	845
G72-300(A)	71	64-1/2	26-1/4	25	8	58-5/8	3/4	20	1-1/2	1-1/2	1-1/2	590	630
G91-300(A)	78-7/16	72-5/16	26-1/4	30-5/8	8	66-3/8	3/4	20	1-1/2	1-1/2	1-1/2	610	650
G100-310(A)	75	68-1/2	30-1/4	32-1/4	7	61-3/4	3/4	23	1-1/2	2	2	770	810
G65-360(A)	70-11/16	64-1/2	26-1/4	25	8	58-5/8	3/4	N/A	N/A	1-1/2	1-1/2	640	680
G65-400(A)	70-11/16	64-1/2	26-1/4	25	8	58-5/8	3/4	N/A	N/A	1-1/2	1-1/2	640	680
G85-400(A)	78-13/16	72-5/16	26-1/4	30-5/8	10	66-3/8	3/4	20	1-1/2	1-1/2	1-1/2	640	680
G100-400(A)	76	68-1/2	30-1/4	32-1/4	8	61-3/4	1*	23	1-1/2	2	2	770	810
G77-500(A)	83	76-3/8	26-1/4	25	10	68-7/8	1*	N/A	N/A	1-1/2	1-1/2	710	750

*3/4" for L.P. Models. ** 7" Vent for L.P. Model. Increase Height 3-5/8" for NSF Models. All Models Require a 120V Power Source. (A) Suffix Indicates ASME Tank Construction Available.



CLEARANCES TO COMBUSTIBLES

MODEL NUMBER	SIDE	REAR	TOP
G50-98	2"	2"	12"
G67-114	2"	2"	12"
G82-156	2"	2"	12"
G37-160	2"	2"	12"
G76-180	2"	2"	12"
G76-200	2"	2"	12"
G91-200	2"	2"	12"
G100-200	2"	4"	12"
G72-250(A)	6"	6"	12"
G100-250(A)	2"	4"	12"
G100-270(A)	2"	4"	12"
G72-300(A)	6"	6"	12"
G91-300(A)	6"	6"	12"
G100-310(A)	6"	6"	12"
G65-360(A)	6"	6"	12"
G65-400(A)	6"	6"	12"
G85-400(A)	6"	6"	12"
G100-400(A)	6"	6"	12"
G77-500(A)	6"	6"	24"

Allow a minimum of 18" front clearance for servicing.

RHEEM-RUUD UNIVERSAL COMMERCIAL GAS TANK-TYPE WATER HEATERS

Other Features:

INSULATION – Sag and moisture proof fiberglass insulation surrounds the storage tank to minimize heat loss. In addition, heavy mineral wool insulation surrounds the combustion chamber.

ANODE RODS – Patented design utilizes multiple magnesium rods to ensure long life and corrosion resistance.

TEMPERATURE AND PRESSURE RELIEF VALVE – AGA rated and factory installed.

HAND-HOLE CLEANOUT – For removal of lime/sediment deposits.

GAS CONTROL SYSTEM – Fully adjustable thermostat from 90°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.

STAINLESS STEEL BURNERS – Precision burners of raised port design are formed from high chromium stainless steel. Entire burner assembly is built like a drawer which slides out easily for quick inspection and simple maintenance.

MANIFOLD KITS AVAILABLE FOR MULTIPLE HEATER INSTALLATIONS.

RECOMMENDED SPECIFICATIONS (for trade reference only)

Water heater(s) shall be UNIVERSAL 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 _____ gallons. Water heater(s) shall have the AGA seal of certification and supplied with a factory installed AGA 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 90.1b-1992. 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 stainless steel burners. Controls will be arranged for safety shutoff in event of pilot failure. Water heater(s) with inputs less than 360,000 Btu/hr. shall have top, 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) suffix 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 brochure for complete warranty information.

