



TRITON® – The Most Intelligent, High-Efficiency Commercial Gas Water Heater in the Market

Ideal for Replacements and New Construction Applications

THE TRITON ADVANTAGE

- Most accurate, all-inclusive leak detection and prevention system in the market
- Eliminate downtime with the ability to detect and prevent water heater problems
- Triple pass heat exchanger constructed of porcelain coated ASME grade steel
- Universal retrofit features make it easy to replace any water heater

SS EXCLUSIVE FEATURES

- **LeakGuard™** – All inclusive leak detection and prevention system with auto shut off valve limits water leakage outside the tank
- **Integrated BMS Connectivity Via BACnet (MS/TP)** – Built-in BACnet port easily connects to building management systems (BMS)
- **Energy & Water Usage Reports** – Track usage trends and manage energy and water consumption through the Ruud EcoNet app
- **Warranty** – 5-Year limited tank* 5-year warranty (extendable to 15 years on 200-500K BTU/h models)

SS AND SU FEATURES

Built-In Intelligence

- **LeakSense™** – Intelligent leak detection system detect leaks as small as a grain of sand and provides real-time notifications that warn you before it becomes an emergency
- **EcoNet® Smart Monitoring Technology with Integrated WiFi**** – Ruud Exclusive! Provides performance updates and alerts via both mobile device and full-color LCD display
- **Systematic Health Checks** – Ongoing self-monitoring of Triton's most vital components and alerts of potential issues
- **Preventive Maintenance Alerts** – Maintenance reminders help to extend life of the tank

Easy Retrofit/Installation

- **Multiple Connection Points** – Multiple water connections at the top, side and bottom of the unit simplify installation for replacement of any model
- **Variety of Flexible Venting Options Including InnoFlue® Flex Venting** – Polypropylene, PVC, CPVC, InnoFlue® Flex Vent and ABS materials; venting 2, 3, 4 and 6 inch diameters
- **Built-In Condensate Neutralizer** – Reduces water acidity for safe drainage

Built to Last

- **Triple Pass Heat Exchanger** – Constructed with premium porcelain coated **ASME-grade steel** to minimize rust and corrosion for extended tank life and maximum thermal efficiency
- **Advanced Power Anodes** – Self-adjusting, non-sacrificial power anodes provide systematic monitoring of anode health and remaining tank life

Energy Efficient

- **Full Modulation** – Maximizes energy savings by optimizing BTU input for specific water heating demand
- **Scheduling Capability** – Adjust to heat water only during peak operating hours when your business needs it most

Plus

- Altitude certified up to 8,999 feet above sea level
- 3/4 -1 1/4 Inch gas connection
- CSA/ASME rated T&P valve
- Meets 14 ng/J NOx requirements
- SCAQMD Rule 1146.2 compliant
- ENERGY STAR® rated
- NSF Rated
- Meets Massachusetts specifications
- Maximum temperature setting 185°F
- **Warranty** – SU Model: 3-Year limited tank; SS Model: 5-Year limited tank*

*See Commercial Warranty Certificate for complete information.

**2.4 GHz WIFI broadband Internet connection required.



Triton SS
80 & 100-Gallon

Triton SS
119-Gallon

Ruud Triton
80, 100 & 119-Gallon Capacities
130,000 - 499,900 BTU/h
Sealed Combustion System
Up to 98% Thermal Efficiency
Ultra Low NOx
Porcelain Coated Tank Lining
and Heat Exchanger
Natural and LP Gas



BASE MODELS: SU = SMART UNIVERSAL		
80-GALLON	100-GALLON	119-GALLON
GHE80SU-130(A)	GHE100SU-130(A)	GHE119SU-500(A)
GHE80SU-160(A)	GHE100SU-160(A)	
GHE80SU-200(A)	GHE100SU-200(A)	
GHE80SU-300(A)	GHE100SU-250(A)	
	GHE100SU-300(A)	
	GHE100SU-400(A)	

PREMIUM MODELS: SS = SMART AUTO SHUTOFF VALVE		
80-GALLON	100-GALLON	119-GALLON
GHE80SS-130(A)	GHE100SS-130(A)	GHE119SS-500(A)
GHE80SS-160(A)	GHE100SS-160(A)	
GHE80SS-200(A)	GHE100SS-200(A)	
GHE80SS-300(A)	GHE100SS-250(A)	
	GHE100SS-300(A)	
	GHE100SS-400(A)	

A= ASME Option

Electrical Requirements: 110 Volt, 50 / 60 Hertz, 7.5 Max Breaker Amp Draw

RECOVERY CAPACITIES (Recovery in U.S. Gallons/Hr. (GPH) and Liters/Hr. (LPH) at various temperature rises)															
MODEL NUMBER	INPUT (BTU/H) NAT. & LP	ASME CERTIFIED		UNITS	40°F (22°C)	50°F (28°C)	60°F (33°C)	70°F (39°C)	80°F (45°C)	90°F (50°C)	100°F (56°C)	110°F (61°C)	120°F (67°C)	130°F (75°C)	140°F (78°C)
		THERMAL EFF.	STANDBY LOSS (BTU/H)												
GHE80SU/SS-130(A)	130,000	98%	950.0	GPH	382	306	255	218	191	170	153	139	127	118	109
				LPH	1448	1160	966	826	724	644	580	527	481	447	413
GHE80SU/SS-160(A)	160,000	97%	980.0	GPH	465	372	310	266	233	207	186	169	155	143	133
				LPH	1760	3305	1173	1007	882	784	704	640	587	541	503
GHE80SU/SS-200(A)	199,900	95%	1001.0	GPH	576	461	384	329	288	256	230	209	192	177	165
				LPH	2180	1745	1454	1245	1090	966	871	791	727	670	625
GHE80SU/SS-300(A)	300,000	95%	1105.0	GPH	855	684	570	488	427	380	342	311	285	263	244
				LPH	3237	2589	2158	1847	1616	1438	1295	1177	1079	996	924
GHE100SU/SS-130(A)	130,000	97%	1050.0	GPH	382	306	255	218	191	170	153	139	127	118	109
				LPH	1446	1158	965	825	723	634	579	526	481	447	413
GHE100SU/SS-160(A)	160,000	97%	1080.0	GPH	470	376	314	269	235	209	188	171	157	145	134
				LPH	1779	1423	1189	1018	890	791	712	647	594	549	507
GHE100SU/SS-200(A)	199,900	97%	1100.0	GPH	582	465	388	332	291	259	233	212	194	179	166
				LPH	2203	1760	1469	1257	1102	980	882	803	746	678	628
GHE100SU/SS-250(A)	250,000	96%	1155.0	GPH	727	582	485	416	364	323	291	264	242	224	208
				LPH	2752	2203	1836	1575	1378	1223	1102	999	916	848	787
GHE100SU/SS-300(A)	300,000	96%	1210.0	GPH	873	698	582	499	436	388	349	317	291	269	249
				LPH	3305	2642	2203	1889	1650	1469	1321	1200	1102	1018	943
GHE100SU/SS-400(A)	399,900	95%	1310.0	GPH	1139	912	760	651	570	506	456	414	380	351	326
				LPH	4312	3452	2877	2464	2158	1915	1726	1567	1438	1329	1234
GHE119SU/SS-500(A)	499,900	95%	1810.0	GPH	1439	1151	959	822	720	640	576	523	480	443	411
				LPH	5448	4358	3632	3113	2724	2421	2179	1981	1816	1676	1556

MAXIMUM DELIVERY (In U.S. Gallons and Liters – Includes useable storage and recover for indicated times)															
MODEL NUMBER	INPUT (BTU/H) NAT. & LP	GAL.	LITERS	TEMP. RISE	UNITS	5 MIN.	10 MIN.	15 MIN.	20 MIN.	30 MIN.	45 MIN.	60 MIN.	120 MIN.	180 MIN.	MIN TO RECOVER CONTENTS
GHE80SU/SS-130(A)	130,000	80	303	100°F	GPH	69	81	94	107	132	171	209	362	515	31
				56°C	LPH	260	308	357	405	501	646	791	1369	1948	
GHE80SU/SS-160(A)	160,000	80	303	100°F	GPH	72	87	103	118	149	196	242	428	615	28
				56°C	LPH	271	329	388	447	564	741	917	1622	2326	
GHE80SU/SS-200(A)	199,900	80	303	100°F	GPH	75	94	114	133	171	229	286	517	747	21
				56°C	LPH	285	357	430	503	648	866	1084	1956	2827	
GHE80SU/SS-300(A)	300,000	80	303	100°F	GPH	84	113	141	170	227	312	398	740	1081	14
				56°C	LPH	320	428	535	643	859	1182	1506	2800	4094	
GHE100SU/SS-130(A)	130,000	100	379	100°F	GPH	83	95	108	121	146	185	223	376	529	39
				56°C	LPH	313	361	410	458	554	699	844	1422	2001	
GHE100SU/SS-160(A)	160,000	100	379	100°F	GPH	86	101	117	133	164	211	258	446	634	33
				56°C	LPH	324	384	443	502	621	799	977	1689	2401	
GHE100SU/SS-200(A)	199,900	100	379	100°F	GPH	89	109	128	148	186	245	303	535	768	26
				56°C	LPH	338	412	485	559	705	926	1146	2027	2908	
GHE100SU/SS-250(A)	250,000	100	379	100°F	GPH	94	118	143	167	215	288	361	652	943	21
				56°C	LPH	357	449	540	632	816	1091	1366	2467	3569	
GHE100SU/SS-300(A)	300,000	100	379	100°F	GPH	99	128	157	186	245	332	419	768	1117	18
				56°C	LPH	375	485	595	705	926	1256	1586	2908	4229	
GHE100SU/SS-400(A)	399,900	100	379	100°F	GPH	108	146	184	222	298	412	526	982	1437	13
				56°C	LPH	409	553	696	840	1128	1559	1990	3715	5441	
GHE119SU/SS-500(A)	499,900	119	450	100°F	GPH	131	179	227	275	371	515	659	1235	1810	12
				56°C	LPH	497	678	860	1042	1405	1950	2494	4673	6852	

VENTING OPTIONS

POWER DIRECT VENT

MODEL NUMBER	MAX. VENT LENGTH (Eq. Ft.)							
	PIPE DIAMETER							
	2" (5 cm)		3" (8 cm)		4" (10 cm)		6" (15 cm)	
	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
GHE80SU/SS-130(A)	20	35	60	75	120	135	X	X
GHE80SU/SS-160(A)	20	35	60	75	120	135	X	X
GHE80SU/SS-200(A)	X	X	60	75	120	135	X	X
GHE80SU/SS-300(A)	X	X	60	75	120	135	120	135
GHE100SU/SS-130(A)	20	35	60	75	120	135	X	X
GHE100SU/SS-160(A)	20	35	60	75	120	135	X	X
GHE100SU/SS-200(A)	X	X	60	75	120	135	X	X
GHE100SU/SS-250(A)	X	X	60	75	120	135	X	X
GHE100SU/SS-300(A)	X	X	60	75	120	135	120	135
GHE100SU/SS-400(A)	X	X	50	65	70	85	120	135
GHE119SU/SS-500(A)	X	X	65	65	120	130	120	130

POWER VENT

MODEL NUMBER	MAX. VENT LENGTH (Eq. Ft.)							
	PIPE DIAMETER							
	2" (5 cm)		3" (8 cm)		4" (10 cm)		6" (15 cm)	
	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
GHE80SU/SS-130(A)	-	35	-	135	-	185	-	X
GHE80SU/SS-160(A)	-	35	-	135	-	185	-	X
GHE80SU/SS-200(A)	-	X	-	135	-	185	-	X
GHE80SU/SS-300(A)	-	X	-	135	-	145	-	120
GHE100SU/SS-130(A)	-	35	-	135	-	185	-	X
GHE100SU/SS-160(A)	-	35	-	135	-	185	-	X
GHE100SU/SS-200(A)	-	X	-	135	-	185	-	X
GHE100SU/SS-250(A)	-	X	-	135	-	185	-	120
GHE100SU/SS-300(A)	-	X	-	135	-	185	-	120
GHE100SU/SS-400(A)	-	X	-	65	-	100	-	135
GHE119SU/SS-500(A)	X	X	-	75	-	150	-	150

Recovery Rating – as used in this Standard, the quantity of water obtained by multiplying the manufacturer’s input rating in BTU per hour by the thermal efficiency and dividing the product by 825 BTU per gallon. This is based on a 100°F temperature rise and a nominal specific heat for water of 8.25 BTU per gallon per degree F.

**FLEX VENT LENGTHS
POWER VENT ONLY
AP19353 – 50' OF 3" PP FLEX PIPE
AP19354 – 25' OF 3" PP FLEX PIPE**

MODEL NUMBER	PIPE DIAMETER 3"
GHE80SU/SS-130(A)	60
GHE80SU/SS-160(A)	60
GHE80SU/SS-200(A)	60
GHE80SU/SS-300(A)	60
GHE100SU/SS-130(A)	60
GHE100SU/SS-160(A)	60
GHE100SU/SS-200(A)	60
GHE100SU/SS-250(A)	60
GHE100SU/SS-300(A)	60
GHE100SU/SS-400(A)	60
GHE119SU/SS-500(A)	80

NOTE: Equivalent 60 Ft. & 80 Ft. with rigid & flexible pipe.

For each long radius sweep 90° elbow, reduce pipe length by five (5) feet.

For each standard sweep 90° elbow, reduce pipe by eight (8) feet.

For each 45° elbow, reduce pipe length by two and a half (2.5) feet.

Note: Vent pipe size should not be mixed for venting these units.

Use same diameter pipe for all venting of the unit.

3" Concentric = 10' Intake, 15' Exhaust

4" Concentric = 10' Intake, 15' Exhaust

See use and care manual for venting details.

Venting configurations are the same for SS Models. Vents with Polypropylene, ABS, CPVC or PVC.

NOTE: For Canadian installations, please use Polypropylene, ULC S636 PVC or CPVC.

Efficiency | All models tested according to ANSI test procedures, and meet or exceed the thermal efficiency and standby loss requirements of ASHRAE standard (EPact). Also exceeds energy efficiency codes of all states including California Energy Commission (CEC).

Safety and Construction | Design certified by CSA: For operation at 185 degrees; meets all safety and construction requirement of ANSI Z21.10.3; as an automatic storage or instantaneous water heater; as an automatic circulating tank water heater; and for operation on combustible floors and in alcove installations. **Certified for 150 PSI maximum working pressure (160 PSI for ASME models).**

Optional Construction | ASME construction is available on designated models. UL Sanitation (NSF5) compliant models are available when equipped with optional seal kit (Part No. AS42690).



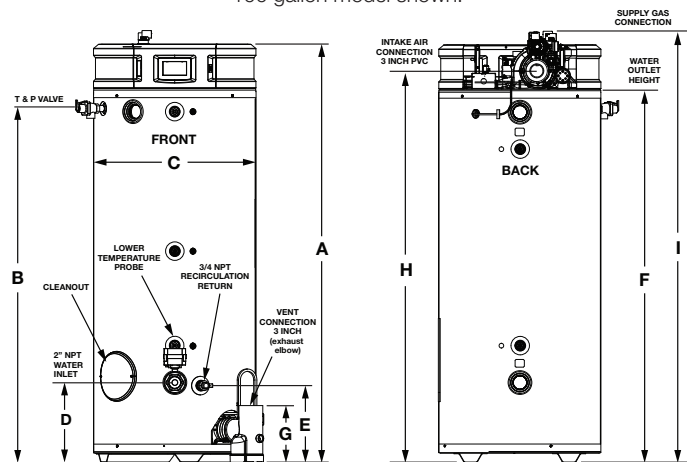
DIMENSIONAL INFORMATIONS (Shown in English and Metric)

MODEL NUMBER	UNITS	A	B	C	D	E	F	G	H	I	VENT	SIDE WATER CONNECTION		TOP OUTLET	APPROX. SHIP. WT. (LB)*
												INLET	OUTLET		
GHE80SU/SS-130(A)	Inches	67-7/8	57.43	26-3/8	13	12-1/2	60-1/2	10-5/8	63-5/8	70-1/16	2", 3", 4"	2" NPT	2" NPT	1.5" NPT	600
	MM	1724	1459	668	331	318	1537	270	1617	1780					
GHE80SU/SS-160(A)	Inches	67-7/8	57.43	26-3/8	13	12-1/2	60-1/2	10-5/8	63-5/8	70-1/16	2", 3", 4"	2" NPT	2" NPT	1.5" NPT	600
	MM	1724	1459	668	331	318	1537	270	1617	1780					
GHE80SU/SS-200(A)	Inches	67-7/8	57.43	26-3/8	13	12-1/2	60-1/2	10-5/8	63-5/8	70-1/16	2", 3", 4"	2" NPT	2" NPT	1.5" NPT	650
	MM	1724	1459	668	331	318	1537	270	1617	1780					
GHE80SU/SS-300(A)	Inches	67-7/8	57.43	26-3/8	13	12-1/2	60-1/2	10-5/8	63-5/8	70-1/16	3", 4", 6"	2" NPT	2" NPT	1.5" NPT	650
	MM	1724	1459	668	331	318	1537	270	1617	1780					
GHE100SU/SS-130(A)	Inches	77	66-3/4	26-3/8	13	12-1/2	69.80	10-5/8	72-3/4	77-1/2	2", 3", 4"	2" NPT	2" NPT	1.5" NPT	725
	MM	1956	1696	668	331	318	1773	270	1847	1969					
GHE100SU/SS-160(A)	Inches	77	66-3/4	26-3/8	13	12-1/2	69.80	10-5/8	72-3/4	77-1/2	2", 3", 4"	2" NPT	2" NPT	1.5" NPT	725
	MM	1956	1696	668	331	318	1773	270	1847	1969					
GHE100SU/SS-200(A)	Inches	77	66-3/4	26-3/8	13	12-1/2	69.80	10-5/8	72-3/4	77-1/2	2", 3", 4"	2" NPT	2" NPT	1.5" NPT	775
	MM	1956	1696	668	331	318	1773	270	1847	1969					
GHE100SU/SS-250(A)	Inches	77	66-3/4	26-3/8	13	12-1/2	69.80	10-5/8	72-3/4	77-1/2	3", 4", 6"	2" NPT	2" NPT	1.5" NPT	775
	MM	1956	1696	668	331	318	1773	270	1847	1969					
GHE100SU/SS-300(A)	Inches	77	66-3/4	26-3/8	13	12-1/2	69.80	10-5/8	72-3/4	77-1/2	3", 4", 6"	2" NPT	2" NPT	1.5" NPT	775
	MM	1956	1696	668	331	318	1773	270	1847	1969					
GHE100SU/SS-400(A)	Inches	77	66-3/4	26-3/8	13	12-1/2	69.80	10-5/8	72-3/4	77-1/2	3", 4", 6"	2" NPT	2" NPT	1.5" NPT	775
	MM	1956	1696	668	331	318	1773	270	1847	1969					
GHE119SU/SS-500(A)	Inches	78-1/4	63-5/8	32-1/4	11-1/2	11	65	8-3/4	73-1/8	71-1/4	3", 4", 6"	2" NPT	2" NPT	1.5" NPT	1050
	MM	1988	1616	818	293	280	1652	221	1858	1811					

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

100 gallon model shown.

0" CLEARANCE TO ALL COMBUSTIBLE SURFACES ON SIDES AND BACK; 6" FOR TOP.
(FOR CANADIAN INSTALLATIONS, PLEASE USE POLYPROPYLENE, ULC S636 PVC OR CPVC.)



Recommended Specifications (for trade reference only)

Water heater(s) shall be Triton Model _____ # or equal, manufactured by Ruud, having a gas input of _____ BTU/h and recovery rate of _____ GPH at a 100°F temperature rise and tested and certified at a Min. of 95% thermal efficiency, with a maximum hydrostatic working pressure of 150 psi and minimum Inlet Gas Pressure 3.5" in WC. Water heater(s) shall 1.) Include a modulating gas burner that automatically adjusts the input based on demand. 2.) Have Power anodes that are non-sacrificial and maintenance free. 3.) Have a factory installed CSA/ASME rated temperature and pressure relief valve, meet SCAQMD rule 1146.2 and include the CSA seal of certification 4.) Have a wet-base design and furnished with a heat exchange system with both sides coated in high temperature porcelain enamel. 5.) Have 2" NPT front and rear, (1) 1-1/2" NPT Top water connection. 6.) Have a 3 year (SU) or 5-year (SS) standard warranty.

The control shall be an integrated 4.3" Color touch screen with the ability to 1.) Provide user advanced notice of any issues with health alerts on tank and combustion system. 2.) Give users advanced notice of catastrophic failure with Integrated LeakSense™ leak detection. 3.) Automatically turn off water in the event of a failure with Integrated LeakGuard™ Auto Shut-Off Valve (SS model only). 4.) Report water & energy usage reports via app or control. (SS model only) 5.) Connect to a cloud, and control & remote monitor the system via the EcoNet® app through integrated WiFi. 6.) Connect to a Building Management System without the need of any accessories using an integrated BacNet MS/TP connection. (SS model only).

For Standard power vent, water heater shall be suited 2", 3", 4" or 6" _____ pipe for a total maximum venting of 185 ft. For Power Direct Vent water heater shall be suited for 2", 3", 4" or 6" _____ pipe for a total maximum vent length, intake 120 ft, exhaust 135 ft. Water heater(s) shall be able to vent with the following materials: Polypropylene, PVC, CPVC, ABS, & InnoFlue® flex venting.

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