



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

Ideal for Replacement 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
- Helical Coil with Internal Diverter heat exchanger constructed of porcelain coated 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*

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, and front 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 and 4 inch diameters
- **Built-In Condensate Neutralizer** – Reduces water acidity for safe drainage

Built to Last

- **Helical Heat Exchanger** – Steel construction with a minimum of weld joints and porcelain coated 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

- **Scheduling Capability** – Adjust to heat water only during peak operating hours when your business needs it most

UL Sanitation Compliance

- All models are UL Sanitation (NSF5) compliant when equipped with the optional ring seal kits

Plus

- Altitude certified up to 10,100 feet above sea level
- 1/2-Inch gas connection
- CSA/ASME rated T&P valve
- Meets 14 ng/J NOx requirements
- SCAQMD Rule 1146.2 compliant
- 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.



Ruud Triton Light Duty

50 and 75-Gallon Capacities
 76,000-100,000 BTU/h
 Sealed Combustion System
 Up to 97% Thermal Efficiency
 Ultra Low NOx
 Porcelain Coated Tank Lining
 and Heat Exchanger
 Natural and LP Gas



| BASE MODELS: SU = SMART UNIVERSAL | |
|-----------------------------------|-------------|
| 50-GALLON | 75-GALLON |
| GHE50SU-76 | GHE75SU-100 |
| GHE50SU-100 | |

| PREMIUM MODELS: SS = SMART AUTO SHUTOFF VALVE | |
|---|-------------|
| 50-GALLON | 75-GALLON |
| GHE50SS-76 | GHE75SS-100 |
| GHE50SS-100 | |

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 | THERMAL EFFICIENCY | 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) |
| GHE50SU/SS-76 | 76,000 | 97% | GPH | 223 | 179 | 149 | 128 | 112 | 99 | 89 | 81 | 74 | 69 | 64 |
| | | | LPH | 846 | 677 | 564 | 483 | 423 | 376 | 338 | 308 | 282 | 260 | 242 |
| GHE50SU/SS-100 | 100,000 | 97% | GPH | 294 | 235 | 196 | 168 | 147 | 131 | 118 | 107 | 98 | 90 | 84 |
| | | | LPH | 1113 | 890 | 742 | 636 | 556 | 495 | 445 | 405 | 371 | 342 | 318 |
| GHE75SU/SS-100 | 100,000 | 96% | GPH | 291 | 233 | 194 | 166 | 145 | 129 | 116 | 106 | 97 | 90 | 83 |
| | | | LPH | 1101 | 881 | 734 | 629 | 551 | 489 | 440 | 400 | 367 | 339 | 315 |

| 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. | 25 MIN. | 30 MIN. | 45 MIN. | 60 MIN. | 120 MIN. | 180 MIN. | MIN TO RECOVER CONTENTS |
| GHE50SU/SS-76 | 76,000 | 50 | 189 | 100°F | GPH | 42 | 50 | 57 | 65 | 72 | 80 | 102 | 124 | 214 | 303 | 34 |
| | | | | 56°C | LPH | 161 | 189 | 217 | 245 | 273 | 302 | 386 | 471 | 809 | 1147 | |
| GHE50SU/SS-100 | 100,000 | 50 | 189 | 100°F | GPH | 45 | 55 | 64 | 74 | 84 | 94 | 123 | 153 | 270 | 388 | 26 |
| | | | | 56°C | LPH | 170 | 207 | 244 | 281 | 318 | 355 | 466 | 578 | 1023 | 1468 | |
| GHE75SU/SS-100 | 100,000 | 75 | 284 | 100°F | GPH | 62 | 72 | 82 | 91 | 101 | 111 | 140 | 169 | 285 | 402 | 38 |
| | | | | 56°C | LPH | 236 | 272 | 309 | 346 | 382 | 419 | 529 | 639 | 1080 | 1520 | |

VENTING OPTIONS ALL MODELS

| POWER VENT CONFIGURATION; (RIGID PIPE) | | | | POWER DIRECT VENT CONFIGURATION; (RIGID PIPE) | | | | TERMINATIONS |
|--|-----------------------|----------------------------------|---------------------------------|--|---------|---------------------------|---------|---|
| ELEVATION (FEET) | VENT SIZE (INCHES) | NAT MAX. EQ. LENGTH (FEET) | LP MAX. EQ. LENGTH (FEET) | NAT MAX. EQ. LENGTH (FEET) | | LP MAX. EQ. LENGTH (FEET) | | |
| | | | | INTAKE | EXHAUST | INTAKE | EXHAUST | |
| 0-10,100 | 2" | 40' | 40' | 40' | 40' | 40' | 40' | 2" & 3" 90° ELBOWS, 2", 3" & 4" CONCENTRIC AND 2" & 3" PANCAKE |
| | 3" | 140' | 140' | 140' | 140' | 140' | 140' | |
| | 4" | 140' | 140' | 140' | 140' | 140' | 140' | |
| MINIMUM INTAKE AIR EXHAUST VENT: 10' EQUIVALENT LENGTH | | | | | | | | |

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.

See below for termination options

2" Concentric and 2" Flat termination for 2" vents

3" Concentric and 3" Flat termination for 3" and 4" vents

4" Concentric for 4" vents

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.

| FLEX VENT LENGTHS POWER VENT ONLY | |
|--------------------------------------|------------------|
| MODEL NUMBER | PIPE DIAMETER 2" |
| GHE50SU/SS-76 | 30 feet |
| GHE50SU/SS-100 | 30 feet |
| GHE75SU/SS-100 | 30 feet |

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

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; as an automatic circulating tank water heater; and for operation on combustible floors and in alcove installations. **Certified for 150 PSI maximum working pressure.**

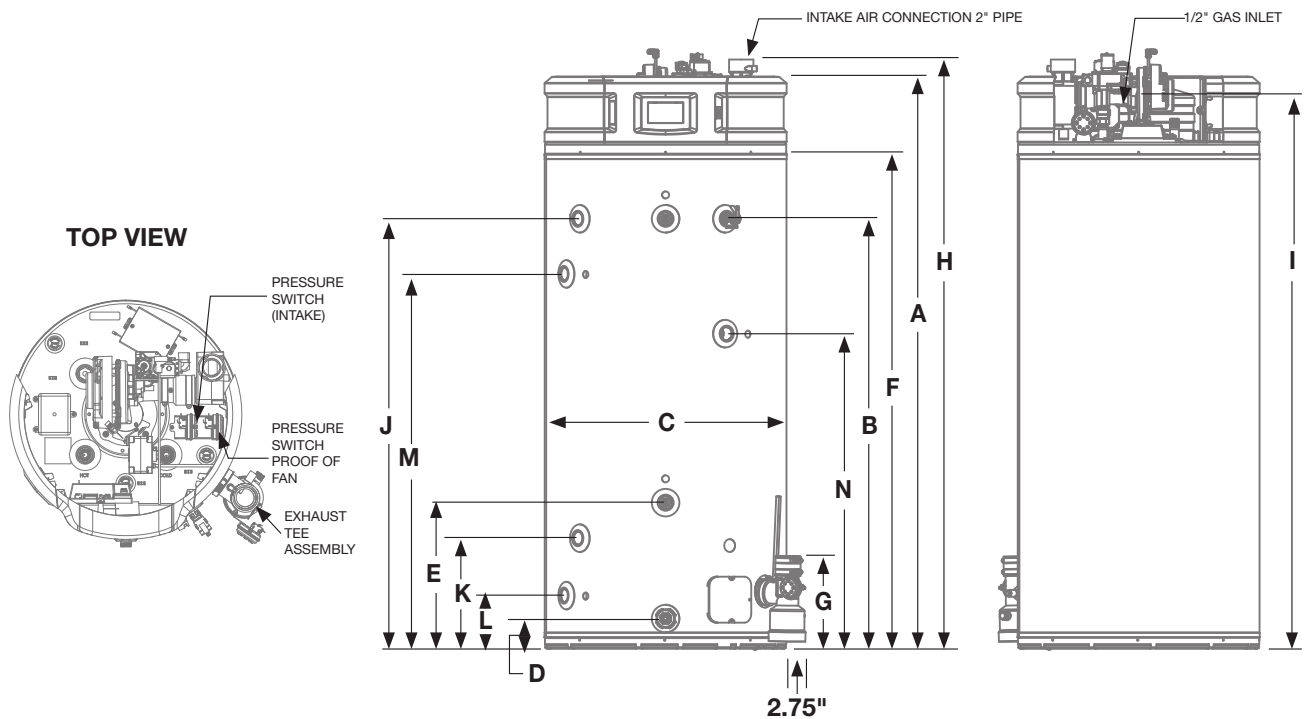
Triton Light Duty Water Heaters



DIMENSIONAL INFORMATIONS (Shown in English and Metric)

| MODEL NUMBER | UNITS | TANK HEIGHT | HT. TO SIDE T&P | DIAM. | HT. TO DRAIN VALVE | LOWER THERMISTOR | PAN TO PAN | EXHAUST CONN. | HT. TO VENT | HT. TO GAS CONN. | SIDE OUTLET | SIDE INLET | SIDE ANODE | SIDE ANODE | SIDE ANODE | WATER HEATER WEIGHT (LBS.) | APPROX. SHIPPING WEIGHT (LBS.) |
|----------------|--------|-------------|-----------------|--------|--------------------|------------------|------------|---------------|-------------|------------------|-------------|------------|------------|------------|------------|----------------------------|--------------------------------|
| | | A | B | C | D | E | F | G | H | I | J | K | L | M | N | | |
| GHE50SU/SS-76 | Inches | 64-1/2 | 48 | 21-3/4 | 3 | 15-1/4 | 55-1/8 | 9 | 62-3/4 | 60-3/16 | 48 | 12 | 5-3/4 | 39-1/2 | 27-3/4 | 212 | 256 |
| | MM | 1638 | 1219 | 533 | 76 | 387 | 1400 | 229 | 1594 | 1534 | 1981 | 305 | 146 | 1003 | 705 | | |
| GHE50SU/SS-100 | Inches | 64-1/2 | 48 | 21-3/4 | 3 | 15-1/4 | 55-1/8 | 9 | 62-3/4 | 60-3/16 | 48 | 12 | 5-3/4 | 39-1/2 | 27-3/4 | 212 | 256 |
| | MM | 1638 | 1219 | 533 | 76 | 387 | 1400 | 229 | 1594 | 1534 | 1981 | 305 | 146 | 1003 | 705 | | |
| GHE75SU/SS-100 | Inches | 62-1/4 | 46-3/4 | 26-1/4 | 3-1/4 | 15-7/8 | 55-1/8 | 9 | 62-5/8 | 60-1/8 | 46-3/4 | 12 | 5-3/4 | 40-3/4 | 34-1/4 | 283 | 332 |
| | MM | 1638 | 1187 | 667 | 83 | 403 | 1400 | 229 | 1591 | 3175 | 1187 | 305 | 146 | 1035 | 870 | | |

**0" CLEARANCE TO ALL COMBUSTIBLE SURFACES ON SIDES AND BACK; 15" 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 LD 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 96% 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 factory installed noise reducer to allow operation less than 68dB in accordance with ANSI/ASAS 12.51-2012/ISO 3741:2010. 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.) Include a helical coil heat exchange system with both sides coated in high temperature porcelain enamel. 5.) Have 3/4" NPT front and top water connections. 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 Leak sense™ leak detection. 3.) Automatically turn off water in the event of a failure with Integrated Leak Guard™ 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 Power Vent, water heater shall be suited for 2", 3", or 4" _____ pipe with a total maximum venting of 140 ft. For Power Direct Vent, water heater shall be suited for 2", 3", or 4" _____ pipe with a total maximum vent length, intake 140 ft, exhaust 140 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.