



PRODUCT BROCHURE
WATER HEATER | TANKLESS GAS

CONTINUOUS HOT WATER YOU CAN COUNT ON



Indoor and Outdoor Tankless Gas Water Heaters



Ruud Tankless water heaters offer an energy efficient means to provide hot water for your home or business.

All Ruud Tankless water heaters feature:

- ENERGY STAR® qualification*
- AHRI listing
- 12-Year limited heat exchanger warranty**
 - Residential (5-Year Commercial**)
- 5-Year limited parts warranty**
- 1-Year limited labor warranty**
- Digital remote control included
- 10 ft. of thermostat wire included
- Easy access remote terminal block
- High-altitude capable up to 9,480 ft.
- Exclusive! Guardian OFW™ overheat film wrap
- EZ-Link™ capable - two like units operate as one
- Multi-unit manifold capable up to 20 like units
- Self-diagnostic electronic control system
- Easy to service system and burner
- Freeze protection to -30°F

Indoor models feature:

- Direct Vent system
 - Concentric stainless steel for mid-efficiency
 - Two-pipe PVC for condensing
- Condensate trap or collector
- Supplied with a 120-volt power cord

Outdoor models feature:

- No venting system needed
- Outdoor recess enclosures available
- Hardwire electrical connection

*Condensing tankless models only.

**See Warranty Guide for additional information.

Estimated Annual Energy Costs

MODEL SERIES FUEL TYPE	EST. YEARLY ENERGY COST	
	(N) Natural	(P) Propane
RUTGH-95DVL	\$174	\$421
RUTGH-95XL	\$174	\$421
RUTGH-90DVL	\$176	\$425
RUTGH-90XL	\$176	\$425
RUTGH-84DVL	\$178	\$430
RUTGH-84XL	\$178	\$430
RUTG-95DVL	\$199	\$482
RUTG-95XL	\$199	\$482
RUTG-84DVL	\$199	\$482
RUTG-84XL	\$199	\$482
RUTG-64DVL	\$199	\$482
RUTG-64XL	\$199	\$482

Estimated energy cost based on a national average fuel cost of \$1.09/therm for natural gas and \$2.41/gallon for LP. Energy factor determined by the U.S. Department of Energy (DOE) test procedures. Operating costs will vary by location and system usage.

Temperature Upgrade Kits

MODEL SERIES FUEL TYPE	KIT PART NUMBER	
	(N) Natural	(P) Propane
RUTGH-95DVL	RTG20240A	RTG20240B
RUTGH-95XL	RTG20240C	RTG20240D
RUTGH-90DVL	RTG20244A	RTG20244B
RUTGH-90XL	RTG20244C	RTG20244D
RUTGH-84DVL	RTG20241A	RTG20241B
RUTGH-84XL	RTG20241C	RTG20241D
RUTG-95DVL	RTG20236A	RTG20236B
RUTG-95XL	RTG20236C	RTG20236D
RUTG-84DVL	RTG20237A	RTG20237B
RUTG-84XL	RTG20237C	RTG20237D

Upgrade a standard unit from basic residential use to high temperature commercial or hydronic applications with this easy to install kit. These kits enable the system to operate at temperatures up to 185°F necessary for commercial or hydronic use.

These kits are designed to fit specific models and will only work with the exact model number that they are specified for. Example, model number RUTGH-95DVLN, the suffix (N) is the fuel type. Refer to the Tankless Parts and Accessories Catalog for details on models not listed here.

Tankless Water Heater Flow Rates

MODEL SERIES	TEMPERATURE RISE (° F)								
	35°	45°	50°	60°	70°	77°	80°	90°	100°
RUTGH-95	9.5	8.4	7.6	6.3	5.4	4.9	4.7	4.2	3.8
RUTGH-90	9.0	7.5	6.8	5.6	4.8	4.4	4.2	3.8	3.4
RUTGH-84	8.4	6.6	6.0	5.0	4.3	3.9	3.7	3.3	3.0
RUTG-95	9.5	7.4	6.6	5.5	4.7	4.3	4.1	3.7	3.3
RUTG-84	8.4	6.7	6.1	5.1	4.3	3.9	3.8	3.4	3.0
RUTG-64	6.4	5.6	5.1	4.2	3.6	3.3	3.2	2.8	2.5



Tankless Parts



Outdoor Recess Box

These allow you to mount an outdoor tankless into the wall, flush with the outside of the home. They are weather resistant and can be locked for security.

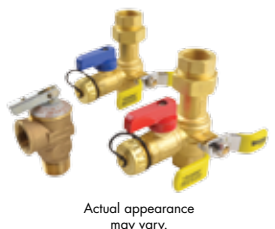
- **RTG20226** - Fits RUTGH X Series Outdoor Condensing Models
- **RTG20218** - Fits RUTG X Series Outdoor Tankless Models



Cosmetic Pipe Covers

These cosmetic pipe covers enhance the installation of the water heater and provides protection from tampering and weather.

- **RTG20227** - Fits RUTGH Series Indoor or Outdoor Condensing Models
- **RTG20217DVG** - Fits RUTG DV Series Indoor Tankless Models
- **RTG20217XG** - Fits RUTG X Series Outdoor Tankless Models



Actual appearance may vary.

Service Valves

Webstone Brand Tankless Service Valves

- **RTG20220AB** - Clean Brass for low lead code Includes cold and hot water set and pressure relief valve.



Flush Kit

The Tankless Flush kit connects to the service valves for an easy way to flush and de-scale your tankless water heater.

- **RTG20214** Includes pump, hoses and 5-gallon bucket.

Condensing Termination Kits

The PVC vent terminations allow for an aesthetic and easy installation of High Efficiency Tankless Water Heaters.



Horizontal or Vertical Concentric Termination

Combines a two-pipe vent system to a single, concentric through-the-wall or roof penetration. Designed for two-pipe direct vent, fits PVC or CPVC venting. Installed dimensions: 39" long x 7 1/4" dia.

- **SP20245** - for 3" PVC Venting



Horizontal Vent Termination

Low profile design for two-pipe direct vent, fits PVC or CPVC venting. Installed dimensions: 11 3/4" x 8" x 2 1/2"

- **SP20286** - for 3" PVC Venting
- **SP20285** - for 2" PVC Venting

Stainless Steel Vent System

3"/5" Concentric Stainless Steel venting, Category III Rated for Mid-Efficiency Tankless Water Heaters.



Horizontal Vent Kit

Low profile cone design for concentric direct vent systems. Includes 90-degree elbow, short, low-profile termination, installation screws.

- **RTG20231** - up to 6" thick walls
- **RTG20234** - up to 8" thick walls

Economy Vent Kit

- **RTG20210** - up to 10" thick walls

Actual appearance may vary.



Vertical Termination Kit

Concentric direct vent systems. Stainless steel and galvanized construction. Includes vertical termination cap, storm collar, 6-12 pitch roof flashing, installation screws. Vent pipe not included.

- **RTG20211** - Vertical Vent Kit

Additional Venting and accessories are available. See Catalog for details.



Condensing Tankless



MODEL NUMBER
HEATER TYPE
BTU/H INPUT: MIN/MAX
RECOVERY EFFICIENCY/ EF

RECOVERY
GPM: MAX /
MIN
(ACTIVATION)
MAX @ RISE

TEMPERATURE
RANGE

VENT SIZE
TYPE
MAX LENGTH

CONNECTIONS
WATER, GAS,
POWER

ROUGHING IN
DIMENSIONS:
H, W, D, LBS

RUTGH-95DVLN - Indoor - Direct Vent

11,000 - 199,900 Btu/h
94% / 0.94 (Nat or LP)
ENERGY STAR® qualified

9.5 / 0.26
(0.40)
4.9 @ 77° Rise
8.4 @ 45° Rise

85°F to 140°F
(120°F default)
85°F to 185°F
with Temperature
Upgrade Kit

2" or 3" PVC
(schedule 40)
5 ft. with 2"
38 ft. with 3"

3/4" Water
3/4" Gas
120 VAC/
60 Hz/2 amps
(Power cord included)

27-1/2"
18-1/2"
9-3/4"
82 lbs



RUTGH-95XLN - Outdoor

11,000 - 199,900 Btu/h
94% / 0.94 (Nat or LP)
ENERGY STAR® qualified

9.5 / 0.26
(0.40)
4.9 @ 77° Rise
8.4 @ 45° Rise

85°F to 140°F
(120°F default)
85°F to 185°F
with Temperature
Upgrade Kit

None
Required

3/4" Water
3/4" Gas
120 VAC/
60 Hz/2 amps
(Must be hardwired)

27-1/2"
18-1/2"
9-3/4"
82 lbs



RUTGH-90DVLN - Indoor - Direct Vent

11,000 - 180,000 Btu/h
93% / 0.93 (Nat or LP)
ENERGY STAR® qualified

9.0 / 0.26
(0.40)
4.4 @ 77° Rise
7.5 @ 45° Rise

85°F to 140°F
(120°F default)
85°F to 185°F
with Temperature
Upgrade Kit

2" or 3" PVC
(schedule 40)
5 ft. with 2"
38 ft. with 3"

3/4" Water
3/4" Gas
120 VAC/
60 Hz/2 amps
(Power cord included)

27-1/2"
18-1/2"
9-3/4"
82 lbs



RUTGH-90XLN - Outdoor

11,000 - 180,000 Btu/h
93% / 0.93 (Nat or LP)
ENERGY STAR® qualified

9.0 / 0.26
(0.40)
4.4 @ 77° Rise
7.5 @ 45° Rise

85°F to 140°F
(120°F default)
85°F to 185°F
with Temperature
Upgrade Kit

None
Required

3/4" Water
3/4" Gas
120 VAC/
60 Hz/2 amps
(Must be hardwired)

27-1/2"
18-1/2"
9-3/4"
82 lbs



RUTGH-84DVLN - Indoor - Direct Vent

11,000 - 157,000 Btu/h
92% / 0.92 (Nat or LP)
ENERGY STAR® qualified

8.4 / 0.26
(0.40)
3.9 @ 77° Rise
6.6 @ 45° Rise

85°F to 140°F
(120°F default)
85°F to 185°F
with Temperature
Upgrade Kit

2" or 3" PVC
(schedule 40)
5 ft. with 2"
38 ft. with 3"

3/4" Water
3/4" Gas
120 VAC/
60 Hz/2 amps
(Power cord included)

27-1/2"
18-1/2"
9-3/4"
82 lbs



RUTGH-84XLN - Outdoor

11,000 - 157,000 Btu/h
92% / 0.92 (Nat or LP)
ENERGY STAR® qualified

8.4 / 0.26
(0.40)
3.9 @ 77° Rise
6.6 @ 45° Rise

85°F to 140°F
(120°F default)
85°F to 185°F
with Temperature
Upgrade Kit


None
Required

3/4" Water
3/4" Gas
120 VAC/
60 Hz/2 amps
(Must be hardwired)

27-1/2"
18-1/2"
9-3/4"
82 lbs



All models are available for Natural gas or Propane (LP). When ordering for Propane replace the N with a P at the end of the model number.
All models meet SCAQMD rule 1146.2.

 denotes number of bathrooms

Mid-Efficiency Tankless

MODEL NUMBER
HEATER TYPE
BTU/H INPUT: MIN/MAX
RECOVERY EFFICIENCY/ EF

RECOVERY
GPM: MAX /
MIN
(ACTIVATION)
MAX @ RISE

TEMPERATURE
RANGE

VENT SIZE
TYPE
MAX LENGTH

CONNECTIONS
WATER, GAS,
POWER

ROUGHING IN
DIMENSIONS:
H, W, D, LBS



RUTG-95DVLN - Indoor - Direct Vent

11,000 - 199,900 Btu/h
84% / 0.82 (Nat or LP)

9.5 / 0.26
(0.40)
4.3 @ 77° Rise
7.4 @ 45° Rise

85°F to 140°F
(120°F default)
85°F to 185°F
with Temperature
Upgrade Kit

3"/5" Concentric
Stainless Steel
(Metal Fab Inc)
39 ft. 1 Elbow

3/4" Water
3/4" Gas
120 VAC/
60 Hz/2 amps
(Power cord included)

25-5/8"
13-7/8"
9-7/8"
54 lbs



RUTG-95XLN - Outdoor

11,000 - 199,900 Btu/h
83% / 0.82 (Nat or LP)

9.5 / 0.26
(0.40)
4.3 @ 77° Rise
7.4 @ 45° Rise

85°F to 140°F
(120°F default)
85°F to 185°F
with Temperature
Upgrade Kit

None
Required

3/4" Water
3/4" Gas
120 VAC/
60 Hz/2 amps
(Must be hardwired)

23-5/8"
13-7/8"
8-7/8"
54 lbs



RUTG-84DVLN - Indoor - Direct Vent

11,000 - 180,000 Btu/h
84% / 0.82 (Nat or LP)

8.4 / 0.26
(0.40)
3.9 @ 77° Rise
6.7 @ 45° Rise

85°F to 140°F
(120°F default)
85°F to 185°F
with Temperature
Upgrade Kit

3"/5" Concentric
Stainless Steel
(Metal Fab Inc)
39 ft. 1 Elbow

3/4" Water
3/4" Gas
120 VAC/
60 Hz/2 amps
(Power cord included)

25-5/8"
13-7/8"
9-7/8"
54 lbs



RUTG-84XLN - Outdoor

11,000 - 180,000 Btu/h
83% / 0.82 (Nat or LP)

8.4 / 0.26
(0.40)
3.9 @ 77° Rise
6.7 @ 45° Rise

85°F to 140°F
(120°F default)
85°F to 185°F
with Temperature
Upgrade Kit

None
Required

3/4" Water
3/4" Gas
120 VAC/
60 Hz/2 amps
(Must be hardwired)

23-5/8"
13-7/8"
8-7/8"
54 lbs



RUTG-64DVLN - Indoor - Direct Vent

11,000 - 150,000 Btu/h
84% / 0.82 (Nat or LP)

6.4 / 0.26
(0.40)
3.3 @ 77° Rise
5.6 @ 45° Rise

85°F to 140°F
(120°F default)

3"/5" Concentric
Stainless Steel
(Metal Fab Inc)
39 ft. 1 Elbow

3/4" Water
3/4" Gas
120 VAC/
60 Hz/2 amps
(Power cord included)

25-5/8"
13-7/8"
9-7/8"
54 lbs



RUTG-64XLN - Outdoor

11,000 - 150,000 Btu/h
83% / 0.82 (Nat or LP)

6.4 / 0.26
(0.40)
3.3 @ 77° Rise
5.6 @ 45° Rise

85°F to 140°F
(120°F default)

None
Required

3/4" Water
3/4" Gas
120 VAC/60
Hz/2 amps
(Must be hardwired)

23-5/8"
13-7/8"
8-7/8"
54 lbs



All models are available for Natural gas or Propane (LP). When ordering for Propane replace the N with a P at the end of the model number.
All models meet SCAQMD rule 1146.2.

denotes number of bathrooms



Commercial and Multi-Unit Systems

Combine multiple units, up to 20, for the most demanding applications. Upgrade standard units for commercial operation with temperatures up to 185°F and a 5-year commercial warranty.



MIC-6 Manifold Controller System

Connect up to 6 tankless water heaters together in a single manifold. This kit mounts inside a single tankless unit and connects up to 5 additional units for a total of 6 water heaters.

- **RTG20213A** - MIC-6
Includes (1) 1 ft. Control Cable and (1) 6 ft. Control Cable. Additional Type Q Cables are needed for 3 to 6 units.

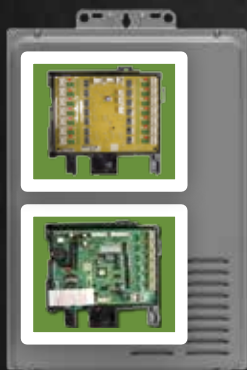


Manifold Control Cables (Type Q)

One required for each tankless water heater installed in a manifold. Connects a single tankless water heater to the MIC-6 Controller.

- **RTG20213B** - MIC-Q-1 1 ft. Control Cable
- **RTG20213C** - MIC-Q-6 6 ft. Control Cable
- **RTG20213D** - MIC-Q-18 18 ft. Control Cable

Notice: These cables will not fit the MIC-185 Controller.



MIC-185 Manifold Controller System

Connect up to 6 tankless water heaters together in a single manifold. The system can control up to six water heaters and can be expanded up to 20 water heaters with the MICS-180. A weather-proof cabinet for indoor and outdoor applications is included.

- **RTG20126A** - MIC-185
Includes installation cabinet for indoor or outdoor applications and power cord.

MICS-180 Manifold Controller Expansion Card

Add on card for the MIC-185 to connect up to 20 units in total.

- **RTG20126B**
Installations of 7 to 20 require this expansion card. Mounts inside the MIC-185 cabinet, includes hardware to install.

Manifold Control Cables (Type K)

One required for each tankless water heater installed in a manifold. Connects a single tankless water heater to the MIC-185 Controller or MICS-180 expansion card.

- **RTG20126C** - MIC-K-16 16 ft. Control Cable
- **RTG20126D** - MIC-K-32 32 ft. Control Cable
- **RTG20126E** - MIC-K-65 65 ft. Control Cable

These cables will not fit the MIC-6 Controller.



EZ-Link™ Cable

Easily connect two tankless units together. When connected the units will operate as a single system. Compatible with all current models.

- **RTG20040**
Must use two identical models.



LEED Points = 2

All Ruud Tankless Water Heaters meet or exceed ANSI requirements and have been tested according to D.O.E. procedures. Units meet or exceed the energy efficiency requirements of NAECA, ASHRAE, standard 90, ICC Code and all state energy efficiency performance criteria. All Ruud Tankless Water Heaters meet or exceed SCAQMD rule 1146 for California Emission Requirements.

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

Technical Support 800.432.8373
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