



TECHNICAL SERVICE DEPARTMENT
Technical Service Bulletin
1-800-432-8373



Tankless Installation
Pre-Qualification and Installation Check List

Tankless Water Heater Sizing

Tankless Wallet Sizing: wallet must be 3" thick

If your home has 1 bathroom, a Rheem tankless RTG 64 series water heater should provide an ample supply of continuous hot water. If your home has 1-2 bathrooms, you should consider a Rheem RTG-84 series water heater. For up to 3 bathroom homes, the larger RTG-95 series water heater should be selected. For homes with more than 3 bathrooms, large volume demands for hot water, or hot water circulating systems, you may choose multiple units. In some applications, our tankless water heaters may be linked together in a manifold configuration to meet the higher volume demands for continuous hot water.



RTG-64 Series

Indoor Direct Vent and Outdoor models. RTG-64DV, RTG-64X – Natural or LP Gas. Remote Control.



RTG-84 Series

Indoor Direct Vent and Outdoor models. RTG-84DV, RTG-84X – Natural or LP Gas. Remote Control.



RTG-95 Series

Indoor Direct Vent and Outdoor models. RTG-95DV, RTG-95X – Natural or LP Gas. Remote Control.



EZ-Link™ Cable System

64, 84 and 95 series tankless installations are easily expandable. For high demand applications you can connect two or more Rheem tankless units to operate together. Contact dealer or factory for details.

Product appearance may differ.

* Based on simultaneous showers using 2.5 gallons per minute. Flow rates vary depending on temperature of cold water supply.

These selections are based on typical showers & faucets operating simultaneously at 65° F ground water.

Typical shower – up to 2.5 gallons of water flow per minute; typical faucets – up to 2 gallons of water flow per minute.

Model selections and availability are subject to change without notice.

Maximum Hot Water Flow Rate and Temperature Rise									
Model Number	35°	45°	50°	60°	70°	77°	80°	90°	100°
RTG-64 Water Flow (GPM)	6.4	5.6	5.1	4.2	3.6	3.3	3.2	2.8	2.5
RTG-84 Water Flow (GPM)	8.4	6.7	6.1	5.1	4.3	3.9	3.8	3.4	3.0
RTG-95 Water Flow (GPM)	9.5	7.4	6.6	5.5	4.7	4.3	4.1	3.7	3.3

Above estimates are for sizing purposes only.



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A. Water Heater Location

- Outdoor Installation Indoor Installation Garage Attic
- New Construction Replacement Unit
- Inside home: Location: _____
- Water heater is properly attached to the wall.
 - Locate wall stud for retaining screws - or -
 - Support structure between wall studs to support weight of heater.
- Bottom is a minimum 18 inches off the floor if installed in a garage.
- Close to area of vent termination.
- Close to electrical connection.
- Close to cold water inlet and hot water delivery to home.
- Pressure relief valve discharges to outdoors.
- Proper clearance from combustible surfaces observed.
- Provisions made to protect area from water damage.
- Sufficient room to service heater.
- Combustible materials, (gas, cleaning materials, rags, etc.) clear of the heater and vent path.

B. Gas Supply

- Gas Company inspects installation (if required)
- Gas type matches product selection and rating plate Natural LP/Propane
- Gas supply pressure is sufficient for the water heater Natural 4-10.5" w.c LP/Propane 8-14" w.c
- Gas line from gas meter to tankless unit is properly sized
- Gas line equipped with shut-off valve, union and sediment trap
- Pressure tap location in gas line next to tankless unit to check and verify inlet gas pressure
- Compute gas requirements to home to account for increased BTU requirements

Tankless Water Heater	_____	BTU
Furnace	_____	BTU
Gas Stove	_____	BTU
Gas Oven	_____	BTU
Fireplace Logs	_____	BTU
Gas Dryer	_____	BTU
Barbeque Grill	_____	BTU
Other	_____	BTU
Total	_____	BTU
÷ 1000 to get CFH required	_____	Cubic Feet per Hour Requirement for Gas Meter sizing



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C. Combustion Air Requirements

- Direct Vent Outdoor Power Vented (obsolete models)
- Sufficient fresh air supply for proper operation of water heater.
- Air supply free of corrosive elements (pool and lawn chemicals) and flammable vapors.
- Adequate air fresh air supply of two openings 14 inches square if installed in a closet.
- If installed in a closet or small room, fresh combustion air is acceptable for all other gas burning appliances such as furnace, boilers, pool heaters, etc.
- I have checked the respective use and care manual for proper venting distances based on the type of unit being installed.

D. Water Supply

- Water supply has sufficient pressure greater than 14 PSI.
- Do water pipes need insulation to protect from freezing? Yes No
- Minimum $\frac{3}{4}$ inch water piping to and from the heater.
- Isolation and shut off valves for servicing; or install service valve kits.
- Drain and flush lines for servicing.

E. Relief Valve

- Install Pressure Relief Valve to discharge line outside or run to open drain inside.
- Discharge line protected from freezing.

F. Electrical Wiring

- Indoor Wall plug within 10 feet of tankless unit.
- Outdoor unit is hard wired per local code with electrical disconnect switch.
- Wall plug is properly wired and grounded. Local code may require a GFCI plug.

G. Venting

- Venting material is Category III UL1738 Certified Stainless Steel Venting Material
- Vent material manufacturer is consistent thru entire vent job
- Vent connector(s) pitched downward ($\frac{1}{4}$ " per foot of length minimum) away from tankless unit
- Consider the use of a condensate trap if venting sloped back toward the tankless unit
- All vent runs longer than 5 feet are properly supported
- Maximum and minimum vent lengths observed. (Based on the number of elbows used.)

H. Vent Termination

- Vent termination is properly planned



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- Sidewall Termination Roof Termination
- Twelve (12) inches above grade level and above normal snow levels
- Away from any door, window, soffit, under eave vent or gravity air inlet to the building or other appliances, or from gas or electric meters
- Do not locate vent above walkways, doors, windows, air inlets, gas or electric meters or other equipment
- Ten (10) feet from any forced air inlet to the building
- Any fresh or make-up air inlet such as for a dryer or furnace area is considered to be a forced air inlet
- Eighteen (18) inches from an inside corner formed by two exterior walls
- Do not install vent terminal under any patio; deck or too close to shrubbery

I. Venting plan and drawing

J. Installation Materials List

	QTY		QTY
Tankless Unit Model Number		Gas Pipe Unions	
Isolation Valves		¾ inch or larger gas pipe	
Drain Valves		Venting elbows	
Water Pipe Unions		Venting straight pipe	
¾ inch water pipe		Vent condensate removal pipe	
Water Pipe Elbows		Vent termination	
Pressure Relief Valve			
Gas Shut-Off Valve			
Vent adapter to connect tankless unit to vent manufacturer			

K. Other Notes
