



TRAVIS COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT 17

3812 Eck Lane • Austin, Texas 78734
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TANKLESS HOT WATER HEATER PROCEDURE

NEW CONSTRUCTION & REPLACEMENT

1. A letter* from the manufacturer (**on the manufacturer's letterhead**) is required prior to final inspection. The letter needs to list the following information (sample attached):
 - a. Date
 - b. Address of property with unit number if applicable
 - c. Builder's name and a contact number
 - d. Plumber's name and contact number
 - e. Type of heater being installed with manufacturer's name, model number, and rate of flow

If two or more hot water heaters are being installed, the letter must list which fixtures are being serviced by which heater.

EMERGENCY REPLACEMENT

1. When a hot water heater goes out and must be replaced over a weekend or after hours, the Plumber, that made the repair, must contact the WCID 17 office on the following business day to obtain a permit for inspection.
2. The Plumber will need to provide a letter* from the manufacturer (**on the manufacturer's letterhead**) listing the same information in the above New Construction, #2, prior to inspection.

*WCID 17 follows the 2015 UPC (UPC 501.0). The UPC states that all water heaters be installed to the manufacturer's installation instructions and approved by the administrative authority. As the authority, WCID 17 **requires** to have the Letter to assure enough units are installed to provide optimum flow.

This Letter is REQUIRED prior to the permit expiration. If the permit expires without receipt of the Letter, the homeowner may be mailed a letter stating that if the Letter is not submitted, the water to the property could be subject to disconnection. .

RE: Address: [REDACTED]

Builder:

Plumber:

TO: [REDACTED]

CONTACT: [REDACTED]

The following is a sizing for Rinnai tankless water heaters for a residence in Lakeway, Texas. This sizing is based on the GPH demand provided by the customer and Rinnai's sizing guidelines. If any of the given information changes or is incorrect, please contact Rinnai's Applications Engineering Department.

Given:

- Sized for 53°F temperature rise (67°F-120°F)
- Designed for outdoor units
- Sized for two separate loops

LOOP 1

Master Bath

- 1-Shower with hand shower
- 2-Lavatory sink
- 1-60 gallon roman tub

Upstairs guest bath 1

- 2-Lavatory sink
- 1-Tub/Shower combo

****Minimum Sizing Recommendations:**

Rinnai water heaters with no storage:

- Model: 2532 W....R85e (outdoor residential unit)
- Quantity water heaters required = 1
- MSA-2M Controls, Qty = 0 required
- MSA-2S Controls, Qty = 0 required
- Maximum gas input rate per water heater = 199,000Btuh

LOOP 2

Utility Room

- 1-Utility sink
- 1-Washer

Kitchen

- 1-Kitchen sink
- 1-Dishwasher

Upstairs Bath 2-left side

- 1-Lavatory sink
- 1-Shower only

****Minimum Sizing Recommendations:**

Rinnai water heaters with no storage:

- Model: 2020 W....R53e (outdoor residential unit)
- Quantity water heaters required = 1
- MSA-2M Controls, Qty = 0 required
- MSA-2S Controls, Qty = 0 required
- Maximum gas input rate per water heater = 150,000Btuh

Please contact me with any questions or concerns.

Thanks,

Ryan McMichael
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Notes:

When using the Rinnai as the heat source for circulation loops, piping systems should be designed with a hot water circulation loop having a minimum circulating flow of 3gpm @12ft head. Also review pressure drop curves for the Rinnai when sizing circulators.

This sizing is intended as a guide only and not a replacement for a professionally engineered project. This sizing is not intended to describe a complete system; it is up to the contractor/engineer to determine the necessary components for and configuration of the particular system being installed. The sizing does not imply compliance with local building codes. It is the engineer/contractor responsibility to ensure the installation is in accordance with all local building codes. Confer with local building officials before installation.

If the intended installation is located in a hard water area, consider using a water softener. Perform routine maintenance as necessary.

SAMPLE