



TRAVIS COUNTY WATER CONTROL & IMPROVEMENT DISTRICT 17

3812 ECK LANE • AUSTIN, TEXAS 78734
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POLICY FOR INSTALLATION OF TANKLESS HOT WATER HEATERS

1. Builder must submit plans to District 17 for review prior to installing plumbing for tankless hot water heaters.
2. Along with the plans, builders must submit a letter from the manufacturer **on the manufacturer's letterhead** listing the following information:
 - 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 heaters are being installed, the letter must list which fixtures are being serviced by which heaters

The letter must be signed by a manufacturer's representative and contain a statement from the manufacturer that the heaters are sufficient for the fixture loop they are to service.

December 7, 2007

RE: Address:

Builder:

Plumber:

TO: Ryan Hay

CONTACT: 512-970-5575

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
Applications Engineer
Rinnai America Corporation
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Web: www.rinnai.us

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.