

This Technical Bulletin describes how to install a T (3" x 1 ½" x 3") to drain condensate in order to maximize the life of the condensate tray in an installation with long runs of PVC venting.

Installation

The T should be installed as close as possible to the boiler to ensure most of the condensate from the venting drains back through it rather than the boiler. The T must be installed on a horizontal section of venting with the 1 ½" leg oriented towards the ground. Follow the drawing on the next page for the best location of the T and how to connect it to the boiler condensate drain. The condensate trap must be a minimum of 4" (see drawing).

The condensation drain pipe should be connected to a drain in the building by means of an open connection (air gap, see drawing). An open connection prevents the possibility of drain gases affecting the boiler.

Install the condensation drain pipe according to the applicable rules and regulations.

If the condensate outlet of the boiler is lower than the public sewage system a condensate pump must be used.

The condensate produced by the boiler has a pH value between 3 and 4. Install a neutralization unit if required by the local code. It is recommended, but not required to install a condensate neutralizer.

The exhaust must be pitched a minimum of a 1/4" inch per foot back to the boiler (to allow drainage of condensate).

Contact Rinnai Engineering Department (1-800-621-9419, FAX 678-829-1666) if you have additional questions.

NOTICE	Before putting the boiler into operation the condensate trap on both the venting and the boiler must be filled. Please refer to the boiler installation manual for information on filling the boiler condensate trap. To fill the PVC venting condensate trap pour water into the trap until it begins to drain out of the trap. If the boiler will be installed in a high temperature installation such as baseboard, fill the condensate trap with mineral oil instead of water.
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NOTICE	Do not drain the condensation water to the external rain gutter or drain because of the danger of freezing and blockage of the drain.
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Boiler PVC Venting

