

INSTALLER'S INSTALLATION INSTRUCTIONS

Venting

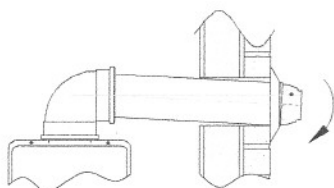
Condensate

Condensate formation can occur in Category III direct vent appliances.

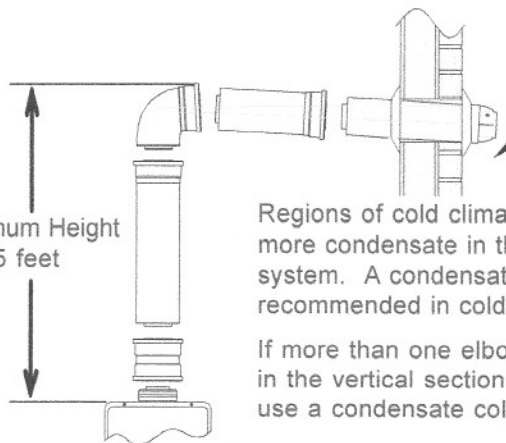
- Vertical terminations must incorporate a condensate drain and trap as close as possible to the appliance.
- The condensate trap must contain a minimum of 3" of water.
- Dispose of condensate per local codes.
- Slope horizontal venting 1/4 inch per foot either towards the heater with a condensate collector or towards the exhaust terminal.

NOTE: Provisions must be made to prevent the condensate from entering the water heater. Without proper drainage or disposal condensate will damage the heat exchanger.

Horizontal Venting without a Condensate Collector



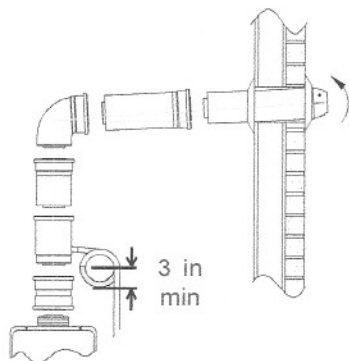
Maximum Height
5 feet



Regions of cold climate will create more condensate in the vent system. A condensate collector is recommended in cold climates.

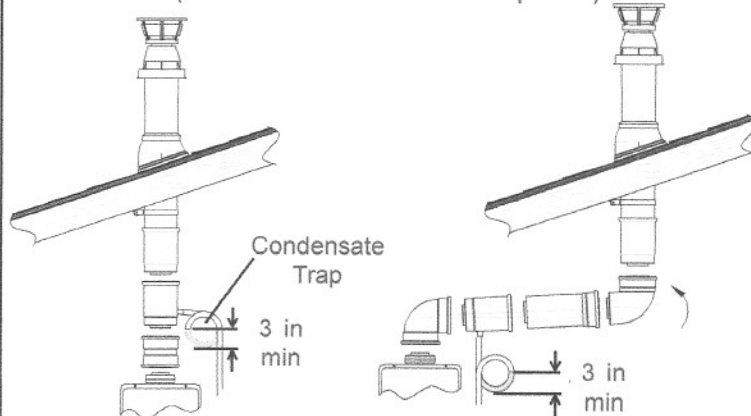
If more than one elbow is used in the vertical section you must use a condensate collector.

Horizontal Venting with a Condensate Collector



3 in
min

Vertical Venting (condensate collector required)



Condensate
Trap

3 in
min

3 in
min

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Air Intake and Exhaust Vent Pipe Length

Determine the number of elbows in the vent system. The corresponding number from the table indicates the maximum length of vent pipe.

For high altitude installations contact Rinnai at 1-800-621-9419.

Table 1 Maximum Vent Length (feet)

Number of 90° Elbows						
0	1	2	3	4	5	6
41 (1)	35 (2)	29 (3)	23	17	11	5
Two 45° elbows are considered equivalent to one 90° elbow. Include termination elbows when using this table. (1) If the length is less than 22' then move dip switch no. 1 (SW 1) to ON (2) If the length is less than 16' then move dip switch no. 1 (SW 1) to ON (3) If the length is less than 10' then move dip switch no. 1 (SW 1) to ON						

⚠ WARNING If it is necessary to adjust the dip switch, ensure that no other dip switches are changed. Unauthorized adjustments can cause property damage, personal injury, scalding, or death.

Intake/Exhaust Guidelines

- This water heater is a direct vent water heater and therefore is certified and listed with the vent system. The only vent/air intake system listed for use with this appliance is the Rinnai / Ubbink vent system or the Heat-Fab Saf-T Vent SC system.
- Minimum wall thickness is 4". Maximum wall thickness is 20".
- Do not combine vent components from different manufacturers.
- The vent system must vent directly to the outside of the building and use outside air for combustion.
- Before installation, inspect each vent component for damage and correct seal placement. Do not attempt to fix or install any damaged vent components.
- Every vent connection must be accessible for inspection, cleaning, and replacement.
- Avoid dips or sags in horizontal vent runs by installing supports per the vent manufacturers' instructions.
- Support horizontal air intake runs every four feet and all vertical air intake runs every six feet or in accordance with local codes.
- Venting should be as direct as possible with a minimum number of pipe fittings.
- Vent diameter must not be reduced.
- Do not connect the venting system with an existing vent or chimney.
- Do not common vent with the vent pipe of any other water heater or appliance.
- Vent connections must be firmly pressed together so that the gaskets form an air tight seal.
- Refer to the vent pipe manufacturers' instructions for component assembly instructions.
- The first vent component to the appliance must be an appliance adapter. This will prevent additional components from being installed backwards.