Venting Installation Diagrams & Examples for On-Demand Water Heaters: NovaVent Line
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NOTES:

- For longer horizontal vent runs, please use support straps every 4 ft., and pitch the run so that any condensate formed will roll back toward the condensate trap.

- Please locate the intake and exhaust sidewall terminations on the same side wall (same pressure zone). The intake and exhaust sidewall terminations should be at least 3 feet apart.

- Please follow all local codes when draining condensate.

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Qualified Installer or Service Agency
Installation and service of this water heater requires ability equivalent to that of a Qualified Agency (as defined by ANSI below) in the field involved. Installation skills such as plumbing, air supply, venting, gas supply and electrical supply are required in addition to electrical testing skills when performing service.

ANSI Z223.1 2006 Sec. 3.3.83: “Qualified Agency” - “Any individual, firm, corporation or company that either in person or through a representative is engaged in and is responsible for (a) the installation, testing or replacement of gas piping or (b) the connection, installation, testing, repair or servicing of appliances and equipment; that is experienced in such work; that is familiar with all precautions required; and that has complied with all the requirements of the authority having jurisdiction.”

If you are not qualified (as defined by ANSI above) and licensed or certified as required by the authority having jurisdiction to perform a given task do not attempt to perform any of the procedures described in this manual. If you do not understand the instructions given in this manual do not attempt to perform any procedures outlined in this manual.

**VENTING INSTRUCTIONS**

- **WARNING**
  Improper venting of this appliance can result in excessive levels of carbon monoxide which can result in severe personal injury or death.
  Improper installation can cause nausea or asphyxiation, severe injury or death from carbon monoxide and flue gases poisoning. Improper installation will void product warranty.

- **CAUTION**
  When installing the vent system, all applicable national and local codes must be followed. If you install thimbles, fire stops or other protective devices and they penetrate any combustible or noncombustible construction, be sure to follow all applicable national and local codes.

The water heater must be vented in accordance with the section “Venting of Equipment” of the latest edition of the National Fuel Gas Code: ANSI Z223.1/NFPA 54 in the United States and/or Section 7 of the CAN/CSA B149.1 Natural Gas and Propane Installation Code in Canada, as well as applicable local building codes.
General rules for venting water heaters are:

- Place the water heater as close as possible to the vent terminator.
- The vent collar of the water heater must be fastened directly to an unobstructed vent pipe.
- Do not weld the vent pipe to the water heater’s vent collar.
- Do not cut the vent collar of the unit.
- The vent must be easily removable from the top of the water heater for normal service and inspection of the unit.
- The water heater vent must not be connected to any other gas appliance or vent stack.
- Avoid using an oversized vent pipe or using extremely long runs of the pipe.
- For rooftop venting, a rain cap or other form of termination that prevents rain water from entering into the water heater must be installed.
- Do not common vent or connect any vent from other appliances to the water heater vent.

General rules for vent terminations:

- Avoid locating the water heater vent terminator near any air intake devices. These fans can pick up the exhaust flue products from the water heater and return them to the building. This can create a health hazard.
- Locate the vent terminator so that it cannot be blocked by any debris, at any time. Most codes require that the terminator be at least 12 inches above grade or anticipated snow level, but the installer may determine if it should be higher depending on the job site condition and applicable codes.
- A proper sidewall terminator is recommended when the water heater is vented through a sidewall.
- Regarding the clearances from the exhaust terminator to the air inlet or opening, refer to the unit installation manual and venting manufacturer installation manual.
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<tr>
<th>Ø4”</th>
<th>Ø5”</th>
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## Water Heaters DV Conversion Kit

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## Concentric Direct-Vent Termination

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## Concentric Direct-Vent Termination Kit

Includes: DV Conversion Kit, Concentric Termination, Universal Adaptor 3-in-1, Aluminum Flex and Gear Clamp

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## Intake Hood (Galvanized)

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Standard Sidewall Termination - Noncombustible Wall
(Example 3)

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Standard Sidewall Termination - Combustible Wall (Example 1)

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Standard Sidewall Termination - Combustible Wall (Example 2)

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Standard Sidewall Termination - Combustible Wall (Example 3)

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Direct-Vent Sidewall Termination - Combustible Wall (Example 1)

Note: For direct-vent sidewall terminations that use two separate penetrations for the intake and exhaust, distance the intake and exhaust terminations at least 3 ft. away from each other, no matter the orientation.
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Direct-Vent Sidewall Termination - Combustible Wall (Example 3)

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**Concentric Direct-Vent Sidewall Termination - (Example 1)**

- Direct Vent Conversion Kit
- 3X4 Concentric Termination
- Universal Adaptor 3-in-1
- Aluminum Flex
- Gear Clamp
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Standard Roof Termination (Flat Roof)

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Standard Roof Termination
(Angeled Roof)

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**Direct-Vent Sidewall Termination Combustible Wall (Example 1)**

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Direct-Vent Sidewall Termination
Combustible Wall
(Example 3)

Note: For direct-vent sidewall terminations that use two separate penetrations for the intake and exhaust, distance the intake and exhaust terminations at least 3 ft. away from each other, no matter the orientation.
Concentric Direct-Vent Sidewall Termination (Example 1)

Note:
9008206005     Concentric DV Termination Kit (5.0" to 10.0")
9008207005     Concentric DV Termination Kit (12.0" to 18.0")

Includes:
- Direct Vent Conversion Kit
- 4X4 Concentric Termination
- Universal Adaptor 3-in-1
- Aluminum Flex
- Gear Clamp

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Concentric Direct-Vent Sidewall Termination (Example 2)

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Direct-Vent Roof Termination (Flat Roof)

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Standard Sidewall Termination - Noncombustible Wall (Example 1)

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Standard Sidewall Termination - Noncombustible Wall (Example 2)

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Standard Sidewall Termination - Noncombustible Wall
(Example 3)
9008189005
Wall Thimble (4"-7")

9008190005
Wall Thimble (5"-10")

(Please check the wall thickness for proper installation)

9008188005
90° Elbow

9008188005
90° Elbow

9008201005
5" Universal Appliance Adaptor Kit

9008197005
5" Termination Hood

Standard Sidewall Termination - Combustible Wall (Example 1)

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**Standard Sidewall Termination - Combustible Wall (Example 2)**
Standard Sidewall Termination - Combustible Wall
(Example 3)

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Note: For direct-vent sidewall terminations that use two separate penetrations for the intake and exhaust, distance the intake and exhaust terminations at least 3 ft. away from each other, no matter the orientation.

Direct-Vent Sidewall Termination - Combustible Wall
(Example 2)

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Direct-Vent Sidewall Termination - Combustible Wall
(Example 3)

Note: For direct-vent sidewall terminations that use two separate penetrations for the intake and exhaust, distance the intake and exhaust terminations at least 3 ft. away from each other, no matter the orientation.

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**Concentric Direct-Vent Sidewall Termination (Example 1)**

- **Note:**
  - 9008210005 Concentric DV Termination Kit (5.0" to 10.0")
  - 9008205005 Concentric DV Termination Kit (12.0" to 18.0")

**Includes:**
- Direct Vent Conversion Kit
- 5X5 Concentric Termination
- Universal Adaptor 3-in-1
- Aluminum Flex
- Gear Clamp
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### Concentric Direct-Vent Sidewall Termination (Example 2)

- **Direct Vent Conversion Kit**
- 5X5 Concentric Termination
- Universal Adaptor 3-in-1
- Aluminum Flex
- Gear Clamp

**Note:**
- 9008210005 Concentric DV Termination Kit (5.0" to 10.0")
- 9008205005 Concentric DV Termination Kit (12.0" to 18.0")

### Components
- 5" Aluminum Flex
- 5" air intake pipe (not offered)
- 9007669005 Direct Vent Conversion Kit
- 9008208005 5" X 5" Concentric Termination Adjustable (5"-10")
- 9008209005 5" X 5" Concentric Termination Adjustable (12"-18")
- 9008184005 36" Straight Pipe
- 9008201005 5" Universal Appliance Adaptor Kit
12C

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Direct-Vent Roof Termination (Flat Roof)

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