

Installation Manual

NORITZ AMERICA
CORPORATION

CONDENSING TANKLESS GAS WATER HEATER

NRC711-DV (Indoor Installation)

NRC661A-DV (Indoor Installation)

ecoTOUGH[®]
Super Efficient. Reliable.

Potential dangers from accidents during installation and use are divided into the following three categories. Closely observe these warnings, they are critical to your safety.



DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.



Prohibited



Disconnect
Power



Ground



Be sure to do



CAUTION

Requests to Installers

- In order to use the water heater safely, read this installation manual carefully, and follow the installation instructions.
- Failures and damage caused by erroneous work or work not as instructed in this manual are not covered by the warranty.
- Check that the installation was done properly in accordance with this Installation Manual upon completion.
- After completing installation, please either place this Installation Manual in a plastic pouch and attach it to the side of the water heater (or the inside of the pipe cover or recess box if applicable), or hand it to the customer to retain for future reference. Also, be sure to fill in all of the required items on the warranty and to hand the warranty to the customer along with the Owner's Guide.



FOR USE IN RESIDENTIAL OR MANUFACTURED HOME APPLICATIONS. Installation must conform with local codes, or in the absence of local codes, the National Fuel Gas Code, ANSI Z223.1/NFPA 54-latest edition and/or the Natural Gas and Propane Installation Code CSA B149.1 - latest edition.



Low NOx Approved by SCAQMD
14 ng/J or 20 ppm
(Natural Gas Only)

When applicable, installation must conform with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280 or the Canadian Standard CAN/CSA-Z240 MH Mobile Homes, Series M86.

Noritz America reserves the right to discontinue, or change at any time, the designs and/or specifications of its products without notice.



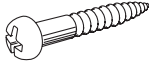
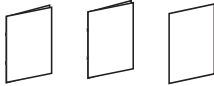
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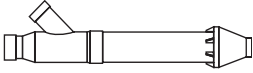

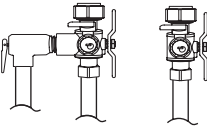
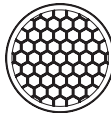
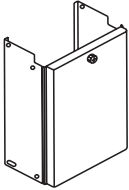

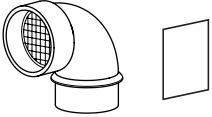
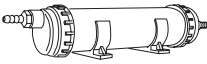
1. Included Accessories

The following accessories are included with the unit. Check for any missing items before starting installation.

| Part | Shape | Q'ty | Part | Shape | Q'ty |
|-----------------|---|------|--|--|--------|
| Anchoring Screw |  | 5 | Owner's Guide, Warranty, Installation Manual (this document) |  | 1 each |

2. Optional Accessories

The accessories listed below are not included with the units, but may be necessary for installation.

| Part | Shape | Q'ty | Part | Shape | Q'ty |
|---|---|--------|--|---|------|
| Remote Controller (See p. 32) |  | 1 | Remote Controller Cord (10ft (3m)) |  | 1 |
| 3" (75mm) PVC Terminal VK3-H-PVC |  | 1 | Remote Controller Cord (26ft (8m)) |  | 1 |
| Isolation Valves* (includes pressure relief valve) |  | 1 each | Bird Screen for 3" (75mm) PVC VT3-PVCS |  | 2 |
| Pipe Cover (PC-1S) |  | 1 | 3" (75mm) Horizontal Hood Termination PVT-HL |  | 2 |
| SV Conversion Kit (#SV-CK-3) (•90° Elbow (With Inlet Screen) •Installation Manual (Check List)) |  | 1 each | Neutralizer (NC-1) |  | 1 |

Note: Additional vent pieces are available; consult the latest product catalogue for details.

* Isolation valves are necessary for flushing the Heat Exchanger. They allow for easy flushing of the system.

Venting With PVC or CPVC

This appliance can be vented with non cellular core plastic pipe materials as specified in the below table. Vent installations in Canada which utilize plastic vent systems must comply with ULC S636.

| Item | Material | United States | Canada |
|-------------------------|------------------|-----------------|-----------------------------------|
| Exhaust Vent/Air Intake | Schedule 40 PVC | ANSI/ASTM D1785 | CSA B137.3 |
| | PVC-DWV | ANSI/ASTM D2665 | CSA B181.2 |
| | Schedule 40 CPVC | ANSI/ASTM F441 | CSA B137.3 |
| Pipe Cement/Primer | PVC | ANSI/ASTM D2564 | ULC S636 Certified Materials Only |
| | CPVC | ANSI/ASTM F493 | |

Note: Do not use cellular core PVC/CPVC or Radel®

PVC/CPVC Installation Instructions

- Use only solid PVC or CPVC schedule 40 pipe. Cellular foam core piping is not allowed.
- 3" schedule 80 pipe may also be used on this appliance, however the BTUH input of the appliance will be reduced by up to 5%.
- In Canada, plastic vent systems must be certified to ULC S636. The components of the certified vent system must not be interchanged with other vent systems or unlisted pipe/fittings.
- In Canada, specified primers and glues of the ULC S636 certified vent system must be from a single system manufacturer and not intermixed with other system manufacturer's vent system parts.
- Follow all general venting guidelines as outlined on this page.
- PVC or CPVC pipe has been approved for use on this appliance with zero clearance to combustibles.
- The pipe shall be installed so that the first 3' (0.9m) of pipe from the appliance flue outlet is readily accessible for visual inspection.
- When preparing and assembling the pipe, follow instructions as provided by the pipe manufacturer. In general, the following practices must be observed:
 - Squarely cut all pieces of pipe.
 - Remove all burrs and debris from joints and fittings.
 - All joints must be properly cleaned, primed, and cemented. Use only cement and primer approved for use with the pipe material as outlined in the above table.



WARNING

CARBON MONOXIDE POISONING
Failure to properly seal the vent system could cause flue products to enter the living space.

- All piping must be fully supported. Use pipe hangers at a minimum of 3' (0.9m) intervals. Do not use the water heater to support the vent piping.
- When attaching the piping to the water heater, use the appropriate primer and cement to ensure a proper seal.
- A bird screen must be installed on the vent terminations to prevent debris or animals from entering the piping. These screens are not supplied with the water heater and must be purchased separately (part #VT3-PVCS, use part PVC or CPVC).