



Report of Materials and Equipment Acceptance Division

NYC Department of Buildings
280 Broadway, New York, NY 10007
Patricia Lancaster, FAIA, Commissioner
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Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use subject to the terms and conditions contained herein.

MEA 327-02-E Vol. 4

Manufacturer: Rinnai Corporation, 2-26 Fukuzumi-cho, Nakagawa, Nagoya, Japan

Trade Name(s): Rinnai

Product: Instantaneous, gas fired, direct-vent hot water heaters

Pertinent Code Section(s): 27-800, RS 16 (P107.26), RS 14-2 (ANSI A223.1)

Prescribed Test(s): RS 14-6 (ANSI Z21.103)

Laboratory: CSA International

Test Report(s): CSA Report 189893-1307478(B,C), dated December 8, 2006

Description: Direct-vent, wall-mounted, instantaneous, gas-fired hot water heater, designed for indoor or outdoor installation. Unit is comprised of burner, ignition module, flame sensor igniter, combination control valve, combustion air blower wheel and temperature limit control. Units, with model numbers and input heating ratings, are listed below:

Model No.	Input Heating Rating Range (BTUH)
REU-V3237FFU-US (Indoor Residential)	19,000 – 237,000
REU-V3237FFUC-US (Indoor Comm'l.)	19,000 – 237,000
REU-V3237W-US (Outdoor Residential)	19,000 – 237,000
REU-V3237WC-US (Outdoor Comm'l.)	19,000 – 237,000

Notes:

1. Model designations are as follows: W – outside wall installation; FFU – forced flue type to upper direction; C – commercial
2. For indoor installation, minimum clearances to combustible and non-combustible construction are :

	<u>REU-V3237 Combustible</u>	<u>REU-V3237 Non-combustible</u>
Left Side:	2 inches	½ inch
Right Side:	2 inches	½ inch
Rear:	0 inches	0 inches
Front:	24 inches	24 inches
Top:	12 inches	2 inches
Floor:	12 inches	2 inches
Vent:	4 inches	0 inches

For outdoor installation, minimum clearances are:

	<u>Combustible</u>	<u>Non-combustible</u>
Left Side:	6 inches	½ inch
Right Side:	6 inches	½ inch
Top:	12 inches	2 inches
Rear:	0 inches	0 inches
Front:	24 inches	24 inches

REU-V3237FFU - Units are direct-vented with the following specifications:

Number of Elbows	Number of 90° Elbows (Intake or Exhaust)							Altitude
	0	1	2	3	4	5	6	
Max. Vent Length (in feet)	41 ₁	35 ₂	29 ₃	23	17	11	5	0 to 5,000 ft.
Max. Vent Length (in feet)	31	25	19	13	7	N/A	N/A	5,000 to 10,000 feet

N/A = Not Allowed.

Two 45° elbows are considered equivalent to one 90° elbow. Include termination elbows when using this table. Minimum recommended length is 6 feet.

¹If the length is less than 22 ft., then move dip switch no. 1 to ON.

²If the length is less than 16 ft., then move dip switch no. 1 to ON.

³If the length is less than 10 ft., then move dip switch no. 1 to ON.

Manufacturer	Product	Appliance Adapter	Vertical Termination	Horizontal Termination
Heat-Fab	Saf-T Vent	9401AMTK	5400C1	9492
Z-Flex	Z-Vent	2SVSNA04.5	2SVSRCX4	2SVSTPX4
Pro-Tech Systems	FasNseal	FSAAU4	FSRC4	FSBS4
Metal-Fab	Corr/Guard	4FCGOA	CGSWC	CGSWMCM

Air Intake Pipe: 4" diameter, schedule 40 PVC, ABS or CPVC
Vent Pipe: 4" diameter, AL294C

Terms and Conditions: The above-described water heater is accepted under the following conditions:

1. Clearances to combustible and non-combustible construction, as listed on Page 2, shall be maintained.
2. Unit shall be fired by natural gas only.
3. Heater shall not be installed in any enclosed space with a volume of less than 100 cubic feet.
4. All shipments and deliveries of the above-described materials shall be accompanied by a certificate or label certifying that the materials shipped or delivered are equivalent to those tested and acceptable for use, as provided for in Section 27-131 of the New York City Building Code.
5. Approval of all electrical equipment, apparatus, materials and devices shall be obtained from the Department's Electrical Advisory Board before installation.
6. Units shall be installed and used in compliance with the Energy Conservation Construction Code of New York State.

Note: In accordance with Section 27-131 (d), all materials tested and accepted for use shall be subject to periodic retesting as determined by the Commissioner; and any material which upon retesting is found not to comply with Code requirements or the requirements set forth in the approval of the Commissioner shall cease to be acceptable for the use intended. During the period for such retesting, the Commissioner may require the use of such material to be restricted or discontinued if necessary to secure safety.

Final Acceptance March 8, 2007

Examined By Suan Perkhudam