



# Report of Materials and Equipment Acceptance Division

NYC Department of Buildings  
280 Broadway, New York, NY 10007  
Patricia Lancaster, FAIA, Commissioner  
(212) 566-5000, TTY: (212) 566-4769

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. 10

**Manufacturer:** Rinnai Corporation, 2-26 Fukuzumi-cho, Nakagawa, Nagoya, JAPAN & State Water Heaters  
25731 Highway 1, McBee, SC 29101

**Trade Name(s):** State Water Heaters

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

**Pertinent Code Section(s):** 27-800, RS 16 (P107.26), RS 14-2 (ANSI Z223.1)  
MEA Index #410 – Water Heater

**Prescribed Test(s):** RS 14-6 (ANSI Z21.10.3)

**Laboratory:** CSA International

**Test Report(s):** CSA Report: 241389-1967195 dated January 2, 2008.

**Description:** Direct-vent, wall-mounted, instantaneous, gas-fired hot water heaters, designed for indoor 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 (Btu/h)
GTS-305-I	15,000 – 199,000
GTS-305-E	15,000 – 199,000
GTS-505-I	15,000 – 199,000
GTS-505-E	15,000 – 199,000
GTS-705-I	19,000 – 237,000
GTS-705-E	19,000 – 237,000
GTS-705-IA	19,000 – 237,000
GTS-705-EA	19,000 – 237,000

Notes:

1. Model designations are as follows: I = Indoor units; E = Outdoor units.

Notes (Cont'd.):

2. Indoor units are direct-vented with the following conditions:

Vent Specifications:

**Equivalent Length, feet**

<b>Vent System</b>	<b>Max. + Elbows</b>	<b>Min.</b>	<b>Inches of Each Elbow</b>
Ubbink	41	6	6
Heat-Fab	41	6	6

Wall Thickness: Maximum = 20 inches, Minimum = 4 inches.

Material Specification:

<b>Manufacturer</b>	<b>Metal Fab, ProTech</b>	<b>Heat Fab</b>
Air Intake Pipe	4 inch diameter PVC, CPVC	4 inch diameter AL29-4C
Vent Pipe	4 inch diameter AL29-4C	4 inch diameter AL29-4C

**Terms and Conditions:** The above-described water heaters are accepted under the following conditions:

1. For **indoor** installation, minimum clearances to combustible and non-combustible construction are:

Left Side: 2 inches  
Right Side: 2 inches  
Rear: 0 inches  
Front: 24 inches  
Top: 12 inches  
Floor: 12 inches  
Vent: 4 inches

2. For **outdoor** installation, minimum clearances to combustible and non-combustible construction are:

Left Side: 6 inches  
Right Side: 6 inches  
Rear: 0 inches  
Front: 24 inches  
Top: 12 inches  
Floor: 12 inches

3. Units shall be fired by natural gas only.
4. Heaters shall not be installed in any enclosed space with a volume of less than 100 cubic feet.
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.
7. All shipments and deliveries of such equipment shall be accompanied by a metal tag, suitably placed, certifying that the equipment shipped or delivered are equivalent to that tested and accepted for use, as provided for in Section 27-131 of the New York City Building Code.

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 February 9, 2008

Examined By Simon Derflinger