



Report of Materials and Equipment Acceptance Division

NYC Department of Buildings
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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 424-06-E Vol. 8

Manufacturer: Paloma Industries, Inc.
2151 Eastman Avenue
Oxnard, CA 93030

Trade Name(s): EcoSense

Product: Instantaneous gas-fired hot water heaters
MEA Index #410-190 – Gas, Water Heaters

Pertinent Code Section(s): 27-800, 27-826, 27-886, RS 16 (P107.26),
RS 14-2 (ANSI Z223.1)

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

Laboratory: CSA International

Test Report(s): 188998-1534720 & 222521-1617425

Description: Gas-fired instantaneous water heaters. Unit is comprised of PCB, self-diagnostic program, exclusive film wrap overheat limiter, built-in electric blower, automatic ignition system, combination gas control, water flow sensor, heat exchanger, freeze protection heater, oxygen depletion safety device and flame-rod system, and digital control for convenience, comfort and ease of maintenance. The digital control displays adjustable temperature setting. Units, with model numbers and input heating ratings, are listed below.

Model No.	Input (Btu/hr)
ECO200DVN	199,900
ECO200PVN	199,900
ECO200XN	199,900
ECO-141DVN	141,000
ECO-145PVN	145,000
ECO-141XN	141,000

Notes: 1. Suffix designations are as follows:

ECO: EcoSense Tankless Gas

200: 199,900 Btu/hr

145: 145K Btu/hr

141: 141K Btu/hr

DV: Direct Vent Version for Indoor Installation

PV: Power Vent Version for Indoor Installation

X: Outdoor Installation

N: For Natural Gas

2. Units shall be installed on noncombustible surfaces.

Minimum installed clearance from combustible construction shall be as follows:

Top – 12 inches, front – 12 inches (24 for servicing), from single wall flue or vent connector in any direction – 3 inches, right and left sides – ½ inch, from back of unit (with support bracket) – 0 inches, Bottom – 12 inches, Air Intake – 0 inches.

3. Direct vent model (ECO200DVN)

Maximum allowed length:

Air inlet: 37.5 feet + 4 each 90° elbow + air/exhaust terminal

Vent exhaust: 37.5 feet + 3 each 90° elbow + air/exhaust terminal.

Vent Material:

Air inlet: Sch. 40 PVC, CPVC, ABS (3" or 4" diameter)

Air inlet: Stainless steel or flex aluminum (4" diameter)

Vent exhaust: AL29-4C type stainless steel, 4" diameter, by Pro-Tech or equivalent, UL 1738 certified venting with silicone gasketing.

Vent termination:

Model Nos. SC04HT, SC04TAD, SC04RCX HeatFab or equivalent for applicable terminations. Terminations may include transition piece for 2 pipes to single concentric terminal.

Direct vent model (ECO-141DVN) utilizes coaxial 3"/5" AL29-4C stainless steel diameters by Pro-Tech or HeatFab mfrs. or Paloma brand utilizes 75mm/110mm diameters of like material. May employ a 3"/5" or 75mm/110mm transition piece at appliance flue outlet.

Maximum length: 30 feet + 4 each 90° elbows + termination

Minimum length: One 90° elbow + 1 foot vent + terminal.

Indoor model (ECO200PVN) utilizes AL29-4C stainless steel vent pipe, by Pro-Tech systems (or other certified vendor), 4" diameter with silicone gasketing.

Maximum length: 37.5 feet + three 90° bends + one 90° termination.

Indoor model (ECO-145PVN) utilizes 3" diameter AL29-4C stainless steel single wall vent.

Maximum length: 30 feet + 4 each 90° elbows + termination. May employ a 3" or 60mm transition piece at the appliance flue outlet.

Minimum length: One 90° elbow + 1 foot vent + terminal.

Outdoor models (ECO200XN and ECO-141XN) use no external venting.

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

1. Heaters may be installed to combustible construction as per clearances specified above.
2. Heaters shall be fired by natural gas only.
3. Heaters shall not be installed in any closed space with a volume of less than 100 cubic feet.
4. Approval of all electrical equipment, apparatus, materials and devices shall be obtained from the Department's Electrical Advisory Control Board before installation.
5. Units shall be used in compliance with the Energy Conservation Construction Code of New York State.
6. All shipments and deliveries of such equipment shall be provided with a metal tag, suitably placed, certifying that the equipment shipped or delivered is equivalent to those 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 September 2, 2008

Examined By Simon Derfsholam