



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 424-06-E Vol. 5

Manufacturer: Paloma Industries, 2151 Eastman Avenue, Oxnard, California 93030

Trade Name(s): Paloma & WaiWela

Product: Instantaneous gas-fired hot water heaters

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

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

Laboratory: CSA International

Test Report(s): 188998-1788822 dated June 12, 2007
188998-1534720 dated June 14, 2007

Description: Gas-fired instantaneous water heaters. Unit is comprised of 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. Digital control is for convenience, comfort and ease of maintenance. Control displays adjustable temperature setting. Units, with model numbers and input heating ratings, are listed below:

Model No.	Input (Btu/hr)
PH-28RIFSN	199,900
PH-28ROFN	199,900
PH-28CIFSN	199,900
PH-28COFN	199,900
PH-28 R DVSN	199,900
PH-28 C DVSN	199,900
PH-16 FISN	118,000
PH-20R IFSN	145,000
PH-20R OFN	141,000
PH-20R DVSN	141,000

Notes: 1. Suffix designations are as follows:

- R: Residential model
- C: Commercial model
- I: Indoor installation
- O: Outdoor installation
- DV: Direct-vent version for indoor installation
- F: Forced combustion unit
- S: Oxygen depletion safety device
- 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
- Air Intake – 0 inches.

3. Direct-vent models (PH-28 R DVSN & PH-28 C DVSN)

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, UL1738 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 (PH-20R DVSN) 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 models (PH-28RIFSN & PH-28CIFSN) utilize 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 models (PH-16 FISN, PH-20R IFSN) utilize 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 + air/exhaust terminal

Outdoor models (PH-28ROFN, PH-28COFN, PH-20R OFN) use no external venting.

Terms and Conditions: The above-described instantaneous gas-fired water heaters, installed as per clearances to combustible construction specified above, are accepted under the following conditions:

1. Units shall be fired by natural gas only.
2. Heaters shall not be installed in any closed space with a volume of less than 100 cubic feet.
3. 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 that tested and accepted for use, as provided for in Section 27-131 of the New York City Building Code.
4. Approval of all electrical equipment, apparatus, materials and devices shall be obtained from the Department's Electrical Advisory Board before installation.
5. Units shall be 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 August 3, 2007

Examined By Simon Derkhoodan