



NYC Department of Buildings  
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Patricia Lancaster, FAIA, Commissioner  
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## Report of Materials and Equipment Acceptance Division

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 146-95-E Vol. 5

**Manufacturer:** Heat Transfer Products, Inc., 120 Braley Road, East Freetown, MA 02717

**Trade Name(s):** Phoenix

**Product:** Direct-vent, gas-fired hot water heaters

**Pertinent Code Section(s):** 27-800, RS 16 (P107.26), RS 14-2 (ANSI S223.1)

**Prescribed Test(s):** RS 14-6 (ANSI Z21.10.1)

**Laboratory:** Underwriters Laboratories, Inc.

**Test Report(s):** UL File MH18082 dated March 3, 1995, and revised October 24, 2006

**Description:** Direct-vent, gas-fired hot water heaters, intended to be used in domestic water supply. Units are floor-mounted and incorporate a steel enclosure to contain electrically live parts. These units are suitable for firing natural gas. The heat source is a direct fired burner, lighted and supervised by an interrupted, spark ignition source. Units are intended for permanent connection to electrical and water supplies. Units are comprised of an automatic solid-state ignition/temperature-regulation control, combination control valves, transformers, air pressure switches, flue gas temperature limits, blower motors, and safety-temperature/pressure relief valves. The water tank is constructed of stainless steel. The outer jacket is made of an ethylene material. There is injection-molded thermal insulation provided around the stainless steel tank. All electrical components are provided with a steel enclosure. Units, with model numbers, heating and storage capacities, are listed on the following page:

Model No.	Input Heating Rating (BTUH)	Storage Capacity (Gallons)
PH199-119	199,000	119
PH199-80	199,000	80
PH199-55	199,000	55
PH130-119	130,000	119
PH130-80	130,000	80
PH130-55	130,000	55
PH100-119	100,000	119
PH100-80	100,000	80
PH100-55	100,000	55

Notes: 1) The units are designed for 150 psig working pressure.

2) Units may be vented horizontally with the following conditions:

- a) Inlet Air Manifold Flange – Aluminum, ¼” thick, 7” OD, welded to blower mounting flange. An aluminum pipe, 2” OD, 4¾” long is welded to flange, provided with 2” OD CPVC trap adapter and 2” coupling. Also provided with rubber-reducing bushing, 3” x 2” OD, which is secured to trap adapter with adhesive and clamp. Also provided with clamp for inlet air service piping (not provided).
- b) Flue Outlet – Provided for flue gas exhaust removal. Mounted to heat exchanger flange. 2⅝” in OD high temperature rubber bushing, secured by clamp to heat exchanger outlet. 3” OD pipe CPVC, is clamped into bushing end and secured with adhesive to 3” in OD side inlet 90° elbow. Pipe 7½” long is secured with adhesive to elbow. Also provided with condensate drain, 1 ½” in OD, located below the outlet piping. Drain is 3” long with cap, secured to elbow and cap by solvent weld. Cap is provided with ½” OD, CPVC, 90° street elbow and ½” in OD 90° barb elbow. Elbows are threaded together. Provided with 5/8” OD, 6” long hose, rated 200 psi, which terminates at ½” in barb – ½” in male NPT fitting at control compartment enclosure side wall. Hose is secured to barbs by clamp and ½” fitting is secured to enclosure by nut.

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

1. Units shall be fired by natural gas only.
2. Units shall be installed on noncombustible flooring. Minimum installed clearances to combustible construction shall be in accordance with RS 14-15 of the New York City Building Code.

3. Units shall not be installed in any enclosed 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 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 that tested and acceptable for use, as provided 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 May 29, 2007

Examined By Steven Derfsholam