



NYC Department of Buildings
 280 Broadway, New York, NY 10007
 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 425-05-E Vol. 2

Manufacturer: Heat Cell Technologies and/or Eco Heating Systems

Trade Name(s): Hamilton Engineering EVO micro & EVO duo
 Huron Valley Sales ProPak™

Product: Gas-fired, low pressure steam and hot water boilers
 Index #60 - Boilers

Pertinent Code Section(s): 27-800, 27-824,, 27-826, 27-886, RS 14-2 (ANSI Z223.1)

Prescribed Test(s): RS 14-6 (ANSI Z21.13)

Laboratory: Intertek, ETL Semko Division

Test Report(s): 3069654-004, dated October 31, 2007.

Description: The products covered by this report are gas fired modulating condensing hot water boilers. Boilers are intended for direct vent application, and shall be used with natural gas. Boilers operate on 208 - 240 volts with an amp draw of less than 12 amps. The boilers are identical in construction; the only differences are their firing rates and the 499, 599, 1499 & 1999 series have two gas valves. Models and capacities as follows:

Model Number	Input Btu/hr	Minimum Btu/hr
HWH 00129	129,000	32,350
HWH 00179	179,000	44,750
HWH 00199	199,999	51,999
HWH 00299	299,999	80,999
HWH 00399	399,999	108,000
HWH 00499	499,999	135,000
HWH 00599	599,999	162,000
HWH 00799	799,999	200,000
HWH 00999	999,999	250,000
HWH 01499	1,499,999	375,000
HWH 01999	1,999,999	1,999,999

Notes:

Vent Piping must conform to the following:

1. **PVC** Non Foam Core Pipe (Polyvinyl Chloride) to ASTM D-1784 Class 12454-B, Formerly designated Type 1, Grade 1.
2. **CPVC** (Chlorinated Polyvinyl Chloride) Class 23447-B, Formerly designated Type IV, Grade 1 conforming to ASTM D-1784.
3. **ABS** (Acrylonitrile-Butadiene-Styrene) Class 3-2-2-2 conforming to ASTM D3965.
4. **AL-29C** Stainless steel pressure sealed venting

The EVO is a direct vent appliance. The EVO is listed as a Category IV Condensing Appliance. (The EVO Venting is rated at Zero Clearance to combustibles.)

Venting Requirements:

Model	Vent Size	Maximum combined vent length	Minimum combined vent length
129	3"	200'	6' + 2 (90°) elbows
179	3"	120'	6' + 2 (90°) elbows
199	3"	90'	6' + 2 (90°) elbows
299	4"	200'	6' + 2 (90°) elbows
399	4"	200'	6' + 2 (90°) elbows
499	5"	200'	6' + 2 (90°) elbows
599	5"	170'	6' + 2 (90°) elbows
1499	7"	200'	6' + 2 (90°) elbows
1999	7"	170'	6' + 2 (90°) elbows

Terms and Conditions: The above gas-fired, direct-vent hot water boiler assemblies are accepted on condition that:

- 1) Boilers are to be constructed in accordance with the ASME Code, per RS 14-4.
- 2) Units shall be installed as per clearances to combustible construction specified above.
- 3) Units shall be fired with natural gas only.
- 4) Approved gas vent shall be in accordance with Subchapter 15 of the New York City Building Code and Section 27-886.
- 5) This acceptance in no way includes the external piping, connection and appurtenances thereto, which are required to fully conform to applicable provisions of the law but have been tested in conjunction with this application.
- 6) Approval of all electrical equipment, apparatus, materials and devices shall be obtained from the Department's Electrical Advisory Board.
- 7) 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 New York City Building Code.
- 8) 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 January 31, 2008

Examined By Simon DesRoches