



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 261-04-E Vol. 2

Manufacturer: Camus Hydronics Limited ,6226 Netherhart Road,
Mississauga, Ontario, L5T 1B7, Canada

Trade Name(s): Micoflame

Product: Gas-fired hot water boiler assemblies

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

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

Laboratory: CSA International

Test Report(s): CSA Reports: #1547145, dated January 17, 2005,
and #1591093, dated September 14, 2005.

Description: Fan-assist, gas-fired, copper fin tube, low-pressure hot water boiler designed for indoor or outdoor installation. When installed indoors, the boiler is suitable for direct-vent application and alternately may be vented as a category I appliance, and is adjustable in vent size. Units consist of integrally finned copper tube, upper heat exchanger assembly, combustion chamber formed of interlocking refractory tiles, a multiple (two to four) main burners assembly (consisting of a burner box fitted with a multi-port ceramic plate burner connected to an air/gas mixing tube being fed by a gas manifold utilizing a single orifice cap drilled with multiple holes), intermittent electronic ignition and combination gas valve and pressure regulator. The intermittent electronic ignition is comprised of a pilot burner, igniter, flame sensor and ignition module. Units are provided with a manual reset outlet water temperature-limiting device set at 250°F maximum and a pressure relief valve set at 160 psig or less.

Units for outdoor installation are fitted with an outdoor kit, which includes vent cap and stack. When equipped with the optional secondary heat exchanger, these units are fully condensing with steady state efficiencies of 95%. Units, with model numbers and input ratings, are listed on the following page.

| Model Number | Input Heating Rating BTUH |
|---------------------|----------------------------------|
| MF(H,W)800 | 800,000 |
| MF(H,W)1000 | 1,000,000 |
| MF(H,W)1200 | 1,200,000 |
| MF(H,W)1400 | 1,400,000 |
| MF(H,W)1600 | 1,600,000 |
| MF(H,W)1800 | 1,800,000 |
| MF(H,W)2000 | 2,000,000 |
| MF(H,W)2500 | 2,500,000 |
| MF(H,W)3000 | 3,000,000 |
| MF(H,W)3500 | 3,500,000 |
| MF(H,W)4000 | 4,000,000 |

Notes:

1. Units shall be installed on non-combustible flooring. Minimum installed clearances from combustible construction shall be as follows:

Top, back, sides – 12 inches; Front – 48 inches; Flue – 6 inches.

2. Venting Specifications:

Outdoor Installation: With venting kit #14-0369, the MicoFlame is self-venting.

Indoor Installation: Standard venting: The non-condensing MicoFlame is a category I appliance and can be vented into a common standard chimney. The condensing MicoFlame is a category II or IV appliance.

Sidewall Venting (with outdoor air intake): With terminals #14-0090 or #14-0091, the MicoFlame can vent up to 60 equivalent feet. Vent sizes are 8" diameter for models 800 to 1000, 10" diameter for models 1200 to 1400, 12" diameter for models 1600 to 2000, 14" diameter for models 2500 to 3000 and 16" diameter for models 3500 to 4000.

With outdoor air kit #14-0046, #14-0364 and #14-0365, the MicoFlame can draw outdoor air over an equivalent length of 60 feet. Air intake sizes are 8" diameter for models 800 to 1000, 10" diameter for models 1200 to 1400, 12" diameter for models 1600 to 2000, 14" diameter for models 2500 to 3000 and 16" diameter for models 3500 to 4000.

Terms and Conditions: The above-described boilers are accepted under the following conditions:

1. Boilers shall be constructed in accordance with the ASME Boiler and Pressure Vessel Code, RS 14-4.
2. Boilers shall be accepted for firing natural gas, as indicated above.
3. Boilers shall be connected to compatible approved gas vent in accordance with Article 15 of the New York City Building Code and Section 27-886.
4. This acceptance in no way includes the external piping, connections and appurtenances thereto, which are required to fully conform with applicable provisions of law, but have not been tested in conjunction with this application, nor does it include any vent damper device which may be added to the installation.
5. Approval of all electrical equipment, apparatus, materials and devices shall be obtained from the Department's Electrical Advisory Board before installation.
6. All shipments and deliveries of such equipment shall be provided with a metal tag 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.

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 November 29, 2005

Examined By Sun Derphutan