



# 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 15-05-E

**Manufacturer:** Cleaver-Brooks, 161 Lorne Avenue, Stratford, Ontario, Canada N5A 6T8

**Trade Name(s):** Cleaver-Brooks Clearfire

**Product:** Gas-fired hot water boilers

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

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

**Laboratory:** CSA International

**Test Report(s):** CSA Report 1539739, dated January 18, 2005.

**Description:** Gas-fired, vertical firetube boilers, MCF series, is designed for hot water applications only. These boilers are intended for commercial installation use and are equipped with a listed burner. Each unit is designed as a full-condensing boiler and classified as a Category IV boiler. The gas-fired boilers and the gas-fired burners are listed for use with natural gas. The gas-fired burner employs a direct spark ignition of the main burner at a minimum firing according to CSA and ASME CSD-1. Units, with model numbers, input rating boiler horsepower and heat transfer surface area, are listed below:

Model No.	Input Heating Rating (MBTUH)	BHP @ 176°F/140°F	BHP @ 104°F/86°F	Heat Transfer Surface Area-sq. ft. (fireside)
MCF700-750	0.75	19	21.5	276
MCF700-1000	1.0	26	28.6	344
MCF700-1500	1.5	39	43	479
MCF700-1800	1.8	46	51.6	547

**Terms and Conditions:** The above-described sealed combustion, gas-fired hot water boilers are accepted for use under the following conditions:

1. Boilers shall be constructed in accordance with RS 14-4 (ASME Code).
2. Boilers may be installed on combustible flooring with minimum installed clearances from combustible construction as follows:

Top	– 24 inches
Right & left sides; Rear	– 24 inches
Vent	– 6 inches
Front	– 36 inches
3. Boilers shall be fired by natural gas only.
4. Boilers shall be connected to compatible approved gas vent or chimney 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, connections and appurtenances thereto, which have been tested in conjunction with this application and are required to fully conform to applicable provisions of the law. This acceptance does not include any vent damper device which may be added to the installation.
6. Approval of all electrical equipment apparatus, materials and devices shall be obtained from the Department's Electrical Advisory Board before installation.
7. Units shall be used in compliance with the Energy Conservation Construction Code of New York State.
8. 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 July 30, 2007

Examined By Simon Derkhudam