



# 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 43-07-E

**Manufacturer:** Heat Wise Inc., 28 Industrial Blvd., Unit I  
Medford, N.Y. 11763

**Trade Name(s):** Heat Wise

**Product:** Combination natural gas and oil burners

**Pertinent Code Section(s):** 27-800, 27-807, 27-826m 27-831, RS 14-2 (ANSI Z223.1)

**Prescribed Test(s):** RS 14-6 (UL 295, UL 795)

**Laboratory:** Underwriters Laboratories, Inc.

**Test Report(s):** MH 18304, Vol. 1, Section 4, dated January 10, 2007.

**Description:** The MF-12 and MF-12 LW are on/off combination natural gas and fuel oil burners. By either using a manual switch or an automatic changeover switch, the burner can be switched from one fuel to another. The MF-12 uses standard parts, including a gear pump coupled directly to a single motor, which also provides the combustion air. The MF-12 LW uses low-wattage components, so the running amps of the unit are less than 4.5 amps. A single motor provides the combustion air, and an air-flow switch is used to prove the air. An electric solenoid-style pump is used to provide the fuel. Both units are high-combustion efficiency units and can be used in a variety of applications, including, but not limited to: boilers, furnaces and other heat exchangers used to heat apartment buildings, commercial buildings, large ovens, heat treatments, process heating, incinerators and laundries. Units, with model numbers and input heating ratings are listed below:

Model No.	Gas Firing Rate (Btu/hr)		Oil Firing Range (GPH)	
	Minimum	Maximum	Minimum	Maximum
MF-12	350,000	1,200,000	3.5	8
MF-12-LW	350,000	1,200,000	3.5	8

**Terms and Conditions:** The above-described gas/oil burners are accepted under the following conditions:

1. Burners shall be fired by No. 2 fuel oil or natural gas.
2. Burners shall be equipped with safety-controls as provided for in Sections 27-831 and 27-800 as applicable, and installed in accordance with NFPA 31.
3. Approval shall be obtained from the Department of Environmental Protection's Bureau of Air Resources to show compliance with their rules and regulations for fuel oil burning equipment.
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 accepted 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 December 31, 2007

Examined By Simon Darkholer