



NYC Department of Buildings
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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 578-06-E

Manufacturer: Industrial Combustion, Inc., 352 21st Street, Monroe, WI 53566

Trade Name(s): "K" Burner

Product: Combination gas-oil burners

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

Prescribed Test(s): RS 14-6 (UL 296, UL 795)

Laboratory: Underwriters Laboratories, Inc.

Test Report(s): UL File MP1473, dated April 2, 2007.

Description: The gas-oil burners, K series, consist of a mechanical draft pressure atomizing-type (sizes 1, 2, 3 and 4) oil burner in combination with a power type gas burner. Single fuel oil and oil portion of combination gas pressure atomizing No. 2 fuel oil burners may be provided with a high-tension electric ignition assembly. Oil burners equipped with this ignition system and having a maximum firing rate greater than 20 gal/h are provided with a guaranteed low fire start of not more than 20 gal/h. The burners are intended for operation with oil fuel not heavier than ASTM D396 No. 2 and natural gas.

Changeover from oil to gas-firing on combination gas-oil burners is accomplished by a manual fuel selector switch located on the main electrical control enclosure. The single fuel-fired oil and gas burners are identical to the gas-oil burner except that all oil or main gas handling components are omitted from the burner for the fuel not being fired. Burner Model, series K, sizes 1, 2, 3 and 4 may be adjusted for automatic firing with high-low or modulating operation with guaranteed low fire start.

The pressure-atomizing oil burner and oil portion of the gas-oil burner is designed for a normal oil pressure of 300 psi (nominal).

The complete burner model designation consists of the following:

$$\text{Example: } \frac{\underline{K}}{\underline{A}} - \frac{\underline{L}}{\underline{B}} - \frac{13}{\underline{C}} = \frac{8.4}{\underline{D}}$$

A = Burner Configuration
K - Model Series

B = Fuel Series

L - ASTM D396 No. 2 oil, Pressure Atomized

LG - ASTM D396 No. 2 oil, Pressure Atomized and natural gas

G - Natural gas

C = Burner Input Suffix

13, 17, 21, 25, 30, 34, 42, 54, 63, 84

D = Optional

When used, designates maximum input capacity in MBtu/h.

The following includes the burner size, model suffix and burner-firing ranges:

Burner Size	Burner Model Suffix	Burner Motor HP (++)	Firing Rate Ranges			
			Pressure Atomizing No. 2 Oil, GPH		Natural Gas MBtu/h	
			Minimum	Maximum	Minimum	Maximum
1	1.3	½	5.5	8.9	625	1250
	1.7	½	7.4	12.5	600	1750
	2.1	½	-	-	698	2093
	2.1	¾	8.1	14.9	1047	2093
	2.5	¾	10.2	17.9	820	2500
	2.5	¾	-	-	837	2510
	2.5	1½	12.4	21.4	1098	3000
	2	1½	12.5	21.6	1000	3000
	3.0	¾	-	-	837	3348
	3.4	1	12.9	23.9	1674	3348
	3.4	2	-	-	1046	4185
	4.2	2	16.2	29.9	2093	4185
	4.2	2	20.2	37.4	1308	5231
	3	3	20.2	37.4	1308	5231
		5	20.2	37.4	1308	5231
	3	3	24.2	44.8	1569	6278
		5	24.2	44.8	1569	6278
	3	5	32.3	59.8	2093	8370
4	10.5	5	N/A	N/A	2093	10460
		7½	N/A	N/A	2093	10460
		10	N/A	N/A	2093	10460
		4	12.5	7½	N/A	N/A
		10	N/A	N/A	2511	12560
		4	14.5	10	N/A	N/A

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

1. Burners shall be fired by No. 2 fuel oil or natural gas only.
2. Burners shall be equipped with safety-controls as provided for in Sections 27-831 and 27-800 of the New York City Building Code as applicable, and installed in accordance with RS 14-3, NFPA 31 and RS 14-2 (ANSI Z223.1).
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. 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.
6. 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 June 26, 2007

Examined By Simon Derkshof