



## Report of Materials and Equipment Acceptance Division

NYC Department of Buildings  
280 Broadway, New York, NY 10007  
Robert D. LiMandri, Acting 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 249-85-E Vol. 4

**Manufacturer:** John Zink Co., LLC  
Gordon-Piatt Group  
11920 E. Apache  
Tulsa, OK 74116

**Trade Name(s):** Gordon-Piatt, Turbo-Ring

**Product:** Gas/oil and combination gas- and oil-burners with  
induced flue gas restrictor  
MEA Index #80-10 – Burners

**Pertinent Code Section(s):** 27-800, 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):** File MP2526 dated June 26, 1985, January 13,  
1997, September 28, 2005; and File MP2526 (SP)  
dated February 6, 1995 and July 7, 2008.

**Description:** Types **F** and **L** series gas, gas-oil and oil burners, as tabulated on following page. The model FL is identical to model F except that the air intake and fan housing are mounted to the side. Model F burner has the air intake and fan housing located below the center of the burner. Burners are intended for operation with No. 2 fuel oil, and for natural gas. Burners are intended for operation with No. 2 fuel oil when equipped for air or steam atomizing without oil preheating and natural gas. When equipped for pressure atomization, the burners are intended for use with not heavier than No. 2 fuel oil. The gas burner is power type and incorporates a circular gas manifold with proved gas pilot for ignition in air atomized fuel systems and proved gas pilot or direct spark ignition of pressure atomized fuel systems. The air or steam atomizing oil burner and oil portion of the combination burner are designed for operation at a maximum oil pressure of 200 psi. The pressure atomizing oil and oil portion of the gas-oil burner are designed for operation at a maximum oil pressure of 300 psi. The

pressure atomizing oil burners are intended for automatic firing with on/off two-stage start, on-off two-stage high-low, or modulating operation with low-fire start on both oil and gas fuels. The air and steam atomizing oil burners are intended for automatic firing and adjusted for full modulating operation with a guaranteed low-fire start at not less than one-third the high fire input rate. Model F and FL gas-oil burners are built in twenty-six (26) sizes, designated by the first suffix number in the model designation as: 20.9, 22.9, 22.

<b>Models F, FL Size No.</b>	<b>No. 2 Oil Input GPH</b>		<b>Gas Input MBH</b>	
	<b>Max.</b>	<b>Min.</b>	<b>Max.</b>	<b>Min.</b>
10.9	26.0	4.7	3,640	661
10	26.0	4.7	3,640	661
10.1	36.0	6.5	5,040	916
10.2	43.0	7.8	6,020	1,094
12.9	42.8	8.1	6,000	1,132
12	47.1	8.6	6,600	1,200
12.1	56.0	10.2	7,840	1,431
12.4	60.0	10.9	8,400	1,527
12.5	60.0	10.9	8,400	1,527
14.9	62.0	13.6	8,680	1,909
14	75.0	13.6	10,500	1,909
14.1	75.0	14.5	10,500	2,036
14.2	78.6	15.8	11,000	2,208
16.9	90.0	16.4	12,600	2,290
16	110.0	20.4	15,400	2,863
16.1	121.4	22.1	17,000	3,090
16.2	130.0	23.9	18,200	3,340
18.9	150.0	27.3	21,000	3,818
18	165.0	30.0	23,100	4,200
18.1	180.0	34.1	25,200	4,772
18.2	195.0	35.4	27,300	4,963
18.2	202.5	38.1	28,350	5,345
18.3	210.0	38.1	29,400	5,345
20.9	210.0	38.1	29,400	5,345
20	242.8	44.2	34,000	6,182
22.9	271.4	49.4	38,000	6,909
22	300.0	54.5	42,000	7,636

- Notes:**
1. The complete model number is comprised of the burner model type or FL followed by nine suffix numbers or letters separated by dashes.
  2. The first suffix indicates the burner size, second suffix indicates the fuel, and third suffix indicates blower motor size and speed.
  3. Additional suffixes indicate primary safety control, gas control system, gas control pipe size, oil control system, pump set and type of oil ignition system.
  4. Firing rate ranges tabulated are dependent upon type of atomization, air or steam, and firebox pressure and draft.
  5. Units may be installed with FGR system (model number has prefixes FR).
  6. Units may be installed with induced FGR system (model number has prefixes I). When firing oil, air atomizing and oil not heavier than No. 2 will be the only options.

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

1. Burners shall be fired by No. 2 fuel oil or lighter only.
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 August 15, 2008  
Examined By Sum DerPlicker