

# WIDE FLAME DUAL FUEL BURNER

MODEL:WFGO

BULLETIN : 208

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This wide flame dual fuel burner features short and wide flame pattern in broad stability range. This burner is designed to fire combustion chambers that have a limited length but with sufficient width to allow the flame envelope to develop.



This burner has provision for gas pilot and ultraviolet flame supervision device. Both gas and oil flames are stable – stable over a fairly wide range of air/fuel ratios. The burner can be used in cold sealed-in combustion chambers with light oil or gas.

**Atomizer :** This burner is equipped with special type atomizer. The burner may be operated on oil or gas. Atomizing air is provided from external blower with pressure of 70mbar for light oil and 100mbar for heavy oil.

**Ignition and Flame Supervision :** This Burner should be ignited by a pilot. Flame detector adapter should be ordered. Provision must be made for low fire start with 2.5 mbar main air or less.

The pilot must be the interrupted type since a constant pilot would overheat the mounting. The flame supervisory device must be an ultraviolet unit.

**Turndown:** The burner can be operated with a constant pressure, turning down the oil and air only. The maximum available turndown on stoichiometric ratio is about 4 : 1 .

**Excess Air:** This Burner is stable when running lean. Suggested maximum excess air is 50% at low fire and 150% at high fire, but these limits often can be exceeded under the proper conditions.

Burner Model	Burner Capacity (Kcal/hr)				Flame Dimensions	
	Air pressure drop across burner (mbar)				Length (m)	Diameter (m)
	4.5	21.5	26	34		
<b>4000WFGO</b>	1,450,000	3,150,000	3,450,000	4,000,000	1.8	1.5
<b>6000WFGO</b>	2,150,000	4,750,000	5,200,000	6,000,000	2.1	1.8
<b>14000WFGO</b>	5,000,000	11,100,000	12,200,000	14,000,000	2.7	2.1
<b>17000WFGO</b>	5,800,000	12,700,000	13,950,000	17,000,000	2.9	2.4
<b>22000WFGO</b>	7,250,000	15,900,000	17,450,000	22,000,000	3	2.5

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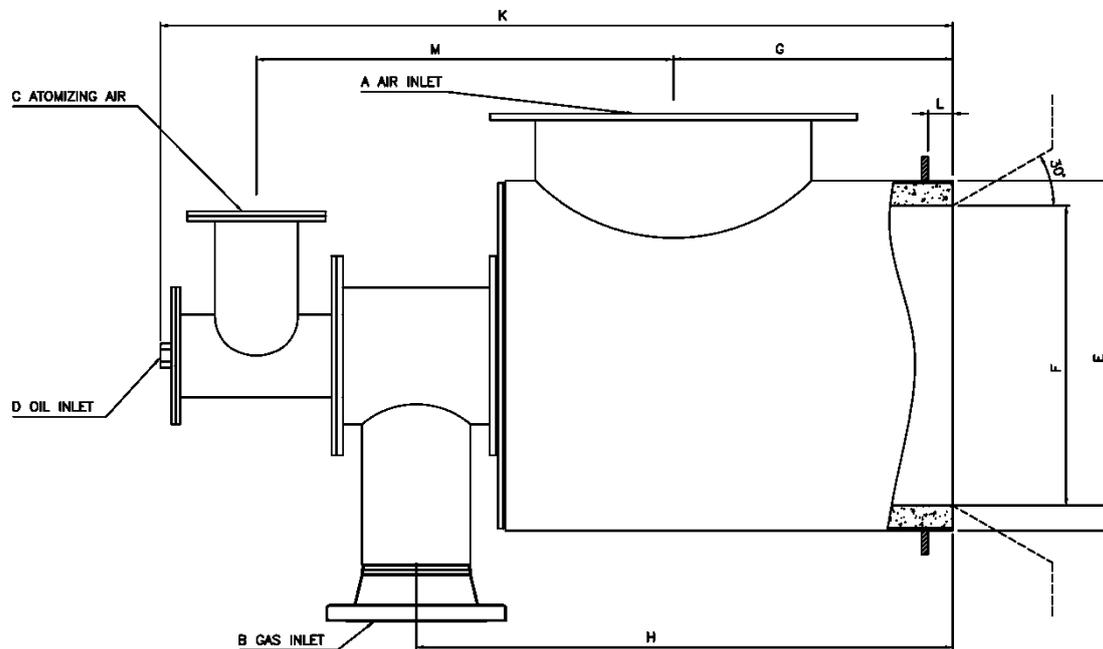
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Burner Model	A in	B in	C in	D in	E mm	F mm	G mm	H mm	K mm	L mm	M mm
<b>4000WFGO</b>	12	3	3	1/2	Ø457	Ø336	390	698	1054	40	515
<b>6000WFGO</b>	14	3	3	1/2	Ø508	Ø435	510	854.5	1203	50	573.5
<b>14000WFGO</b>	20	4	4	3/4	Ø545	Ø659	456	995.5	1666	50	775
<b>17000WFGO</b>	22	6	6	3/4	Ø713	Ø611	565	1085.5	1603	50	844
<b>22000WFGO</b>	24	6	6	3/4	Ø813	Ø695	665	1284	1753	50	914

- Furnace opening should be 3/4" larger than dimension F.
- After a length of 1.2 E flare out the tile at a 30° angle (60° included angle).

**Installation:** The burner does not include a refractory tile. The shape shown on the dimension drawing must be built into the combustion chamber wall.



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