



# ASTRAFLAME® BURNER

“Multi-Fuel Combustion System”

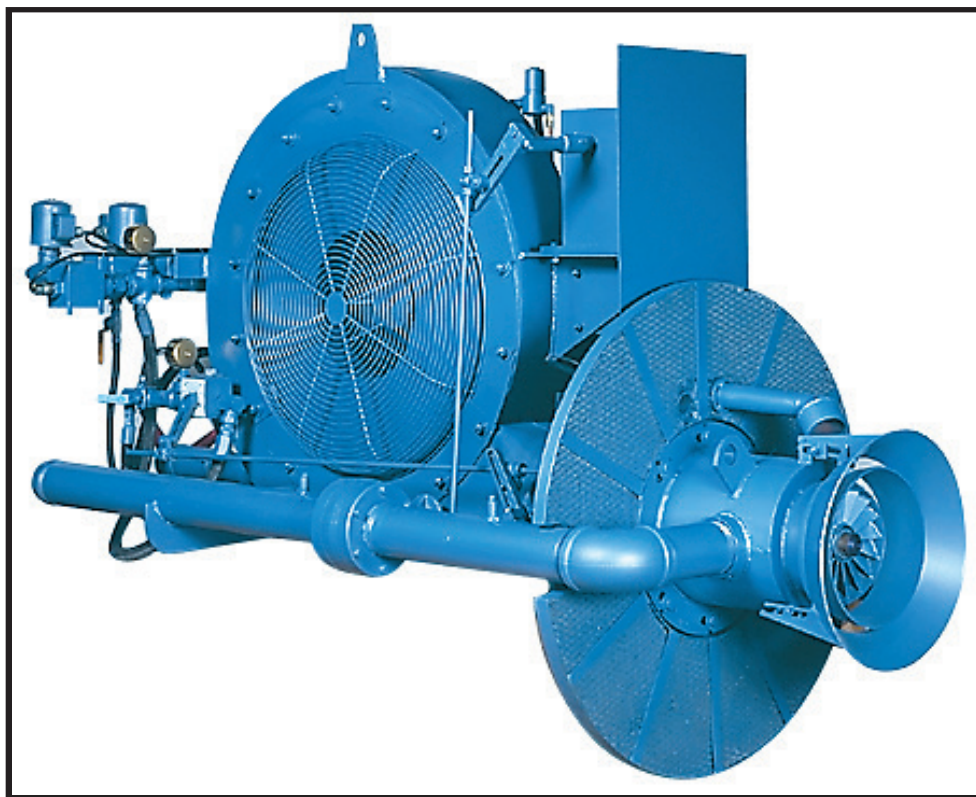
## DESCRIPTION

The Astraflame burner package from General Combustion has a proven performance record in rotary dryer applications. Engineering innovations of the Astraflame design eliminates the need for refractory or combustion chambers to assist with the combustion process. The Astraflame burner achieves complete, efficient combustion without the use of refractory heads or combustion chambers. As a result, more of the BTU heating value of the available fuel is applied directly to the drying process without unnecessary heat loss. Retrofit applications of Astraflame burners in existing dryers result in substantial savings for the user, and modern dryers using Astraflame combustion equipment are among the most efficient units available.

## APPLICATION

The Astraflame burner from Genco is completely packaged combustion unit designed primarily for use in rotary dryers. The intense, short flame shape aids in using a wide variety of available fuels at optimum combustion efficiencies.

Astraflame burners use gas, LP or fuel oil (No. 2 - No. 6). Dual fuel or combination fuel units are available, as are models that can use waste oil, methane, or by-product fuels. The design of the Astraflame units make them readily adaptable to most existing rotary dryer equipment and control systems.



## STANDARD ADVANTAGES

- Fuel manifold
- Modulating valve (adjustable flow control)
- Modulating motor (actuator)
- Pressure gauges
- Electric Fuel valves
- Air atomization for all commercially available fuel oil grades
- Ignition pilot assembly
- Flame Scanner
- Standard 230/460 voltage
- NFPA code compliance

## OPTIONS

- Custom control systems
- Fuel supply trains
- Simultaneous fuel capability
- Multi-fuel conversion kits
- Motor Starters
- Alternate voltage motors
- Totally enclosed or explosion-proof motor
- Sound attenuators
- Custom adaptation
- Code requirements
- High altitude package



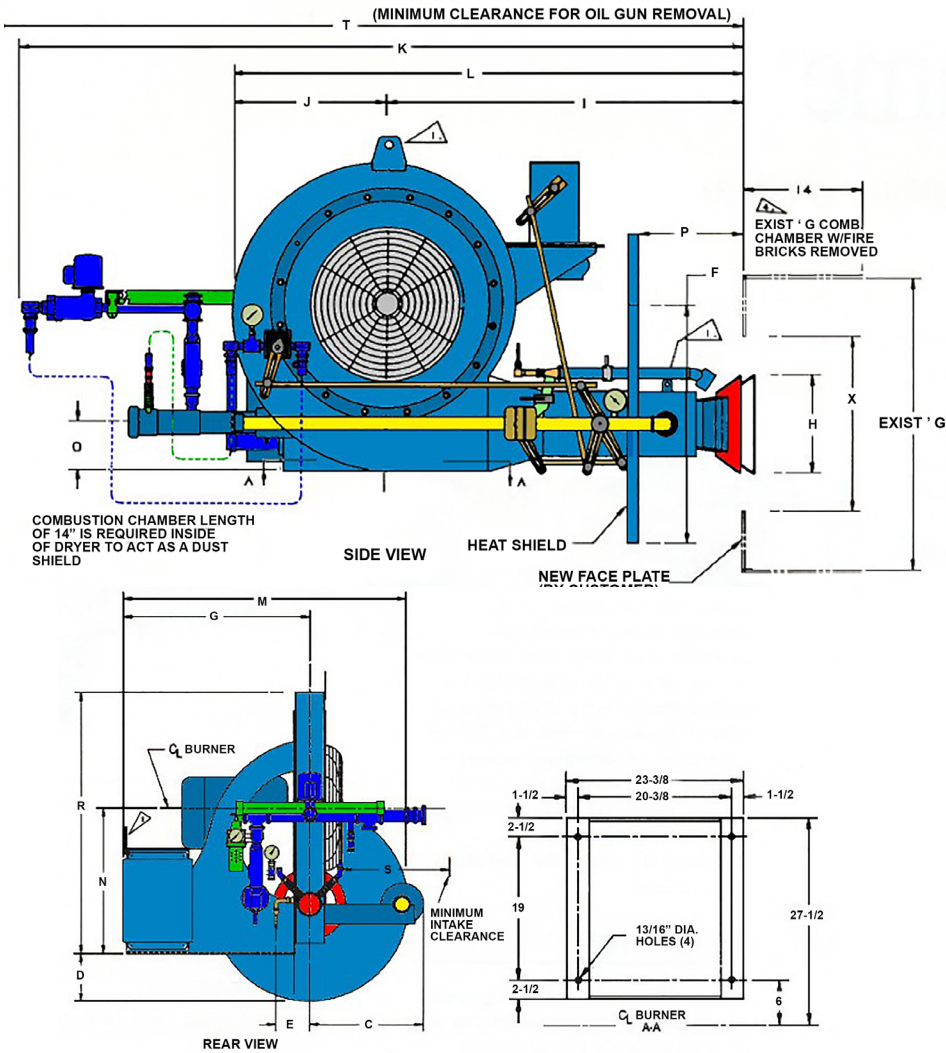
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# ASTRAFLAME® SERIES BURNER

**NOTES: All dimensions are approximate. For certified dimensions contact engineering.**

1. Burner to be lifted at three points shown.
2. LP is used in liquid state and is not vaporized.
3. Bottom horizontal-clockwise arrangement is standard. Other arrangements are special order.
4. Combustion chamber shown by phantom lines *is not supplied by Gencor*.
5. During gas firing operations, the oil, and LP nozzles should be retracted.
6. The burner shown is a general representation and does not show the specific items for all burner arrangements.
7. For bottom-horizontal counterclockwise, all dimensions are mirrored.



Burner	Oil Inlet size	Pilot gas inlet size	Atomizing air inlet size	Gas units gas inlet size	X I.D.	Combustion Chamber Length
						14" Min. Combustion Chamber I.D.
AF-8	1 NPT	3/8 NPT	3/8 NPT	2 NPT	18.5	28.5
AF-15	1 NPT	3/8 NPT	3/8 NPT	2 NPT	21.5	29.5
AF-25	1 NPT	3/8 NPT	3/8 NPT	3 NPT	22.5	30.5
AF-40	1 NPT	3/8 NPT	3/8 NPT	3 NPT	27.0	35.25
AF-50	1 NPT	3/8 NPT	3/8 NPT	3 NPT	36.0	44.0
AF-60	1 NPT	3/8 NPT	3/8 NPT	3 NPT	38.0	44.0
AF-75	1 NPT	3/8 NPT	3/8 NPT	4 NPT	40.5	48.5
AF-100	1/4 NPT	3/8 NPT	3/8 NPT	4 NPT	45.0	52.75
AF-125	1/4 NPT	3/8 NPT	3/8 NPT	6 NPT	50.0	58.0

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R	S	T
AF-8	18.38	15.38	17.25	8.5	4.81	28.25	18.38	11.83	43.0	18.0	81.0	61.0	40.38	20.0	6.0	13.25	36.25	14.0	142.0
AF-15	23.38	20.38	19.25	11.0	5.58	34.0	27.0	14.0	44.25	19.75	84.0	64.0	40.38	21.0	6.0	13.25	39.63	14.0	152.0
AF-25	23.38	20.38	19.25	11.0	6.0	34.0	27.5	15.75	44.25	19.75	84.0	64.0	44.5	21.0	6.0	13.25	39.63	14.0	152.0
AF-40	23.38	20.38	19.25	11.0	6.0	34.0	27.5	17.38	45.0	19.75	85.0	64.75	44.5	21.0	6.0	14.0	39.83	18.0	154.0
AF-50	24.38	21.38	21.0	13.0	7.19	48.25	28.75	18.81	48.0	21.83	86.0	69.83	52.88	28.0	11.13	14.75	48.25	24.0	156.0
AF-60	23.38	20.38	21.0	15.0	6.75	42.0	28.25	19.75	45.75	19.75	86.0	65.5	49.25	21.0	6.0	14.75	39.83	20.0	154.0
AF-75	24.38	21.38	21.0	13.0	7.19	48.25	28.75	22.5	48.0	21.83	88.0	69.63	52.88	28.0	11.13	14.88	48.25	24.0	158.0
AF-100	24.38	21.38	23.0	12.38	7.19	53.25	28.75	23.5	48.75	21.83	89.0	70.38	55.38	28.63	11.75	16.63	48.75	28.0	158.0
AF-125	24.38	21.38	25.0	4.88	7.19	53.25	28.75	23.63	49.5	21.63	90.0	71.13	55.38	28.63	11.75	16.38	48.75	30.0	160.0

Specifications subject to change without notice.  
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