

# DURADIANT GAS BURNERS

## OPEN FIRING

SELAS OPEN FIRING DURADIANT GAS BURNER  
は、炉を必要としない加熱に応用出来、ブラウン管や電  
球等のアニーリングやロー付ハンダ付などに、数多く使  
用されています。

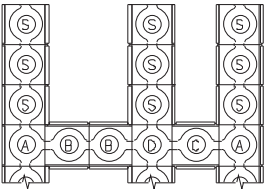
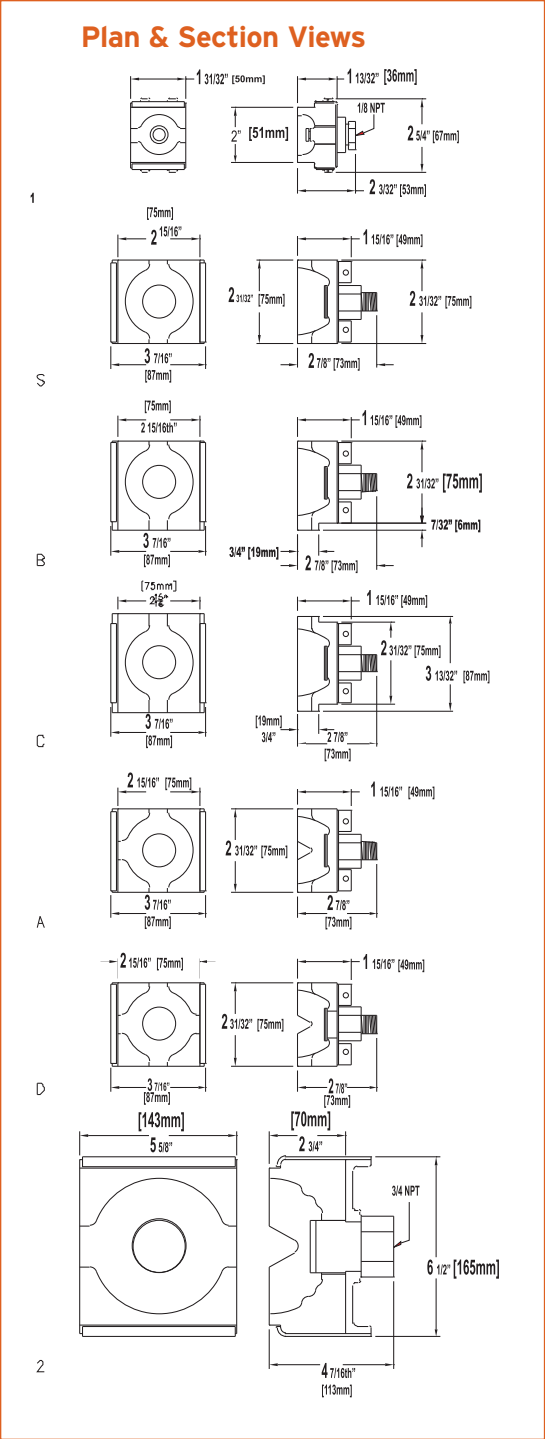
UNIT BURNER DATA				
型 番	K201	* K500-N2	* K521-N2	K5004
形 状				
寸 法 図				
適 用 ガ ス	天然ガス プロパンガス ブタンガス 製造ガス	天然ガス プロパンガス ブタンガス	天然ガス プロパンガス ブタンガス	天然ガス プロパンガス ブタンガス
ケーシング	SUS	無し	鋳鉄	耐熱鋳鋼
TIP No.	No.23B	No.51	No.51	No.51
接 続 口 径 (NPT)	1/8 メネジ	3/8 オネジ	3/8 メネジ	3/8 メネジ
燃 焼 量				
100mmW.C.	700kcal/Hr	3,100kcal/Hr	3,100kcal/Hr	3,100kcal/Hr
200mmW.C.	1,000kcal/Hr	4,500kcal/Hr	4,500kcal/Hr	4,500kcal/Hr
500mmW.C.	1,700kcal/Hr	7,600kcal/Hr	7,600kcal/Hr	7,600kcal/Hr

\* 製造ガス用として、K500-A、K521-A (TIP No.50付)が、用意されています。

# Line Arrangement

These burners provide close coupling of radiant heat sources for use in “line” arrangements where the heating job is relatively light. Designed mainly for heating moving webs, line burners also find frequent application in ovens, as well as in heating stationary objects.

The 500 Series is available in a variety of cup configurations to permit several self-piloting geometric arrangements. The small 200 Series and large 700 Series, however, are currently available for straightline use only.



**Typical Arrangement  
500 Series Burner**  
Refer to unit burner data  
for burner type

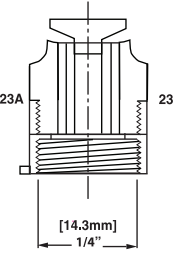
Unit Burner Data			
		Type See Diagram 2 Typical Arrangement	Catalog Number Mixed, Nat., Propane & Butane
1	Series 200	Straight (S)	K202-S Tip No. 23A
S		Straight (S)	K503-SN2 Tip No. 51
B		Single Shoulder (B)	K503-BN2 Tip No. 51
C	Series 500	Double Shoulder (C)	K503-CN2 Tip No. 51
A		Tee (A)	K503-AN2 Tip No. 51
D		Cross (D)	K503-DN2 Tip No. 51
2	Series 700	Straight (S)	K703-SN Tip No. 71

3/8" Std. (N.P.T.) Pipe Connections (except as noted)

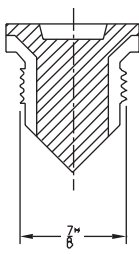
- 1 For mounting on manifold, drill and tap 1/8" IPS on 2" centers in extra heavy iron pipe.
- S-D For mounting on manifold, drill and tap 3/8" IPS on 3" centers in extra heavy iron pipe.
- 2 For mounting on manifold, drill and tap 3/4" IPS on 5-3/4" centers in extra heavy iron pipe.

# Unit Burner Capacities (for all Duradiant Types)

**TIP No. 23 & 23A**  
FOR MFG., MIXED, NAT.  
& L.P. Gases  
(PORT AREA -.0169 IN<sup>2</sup>  
11 mm<sup>2</sup>)



**TIP # 51**  
FOR MIXED, NATURAL & L.P. GASES  
PORT AREA .064 in<sup>2</sup> (41 mm<sup>2</sup>)



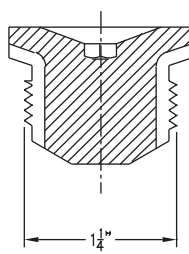
**TIP NO. 51 REPRESENTS**  
100% OF STANDARD CAPACITY

**TIP NO. 52 REPRESENTS**  
140% OF STANDARD CAPACITY

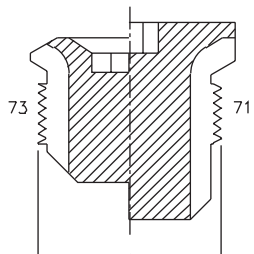
**TIP NO. 53 REPRESENTS**  
75% OF STANDARD CAPACITY

**TIP NO. 55 REPRESENTS**  
55% OF STANDARD CAPACITY

**TIP No. 61**  
FOR MIXED, NATURAL & L.P. GASES  
PORT AREA .095 in<sup>2</sup> (61 mm<sup>2</sup>)



**TIP No. 71**  
FOR MIXED, NATURAL & L.P. GASES  
**TIP No. 73 FOR ALL GASES**  
PORT AREA .187 in<sup>2</sup> [121mm<sup>2</sup>]



**TIP NOS. 71 & 73 REPRESENT**  
100% OF STANDARD CAPACITY

**TIP NO. 74 REPRESENTS**  
150% OF STANDARD CAPACITY

**TIP NOS. 72 & 75 REPRESENT**  
300% OF STANDARD CAPACITY

Size & Specification Chart										
Air/Gas Mixture Pressure In Inches (mm) Water Column			#23		#51		#61		#71	
			1000 BTU/hr	1000 KCAL/hr	1000 BTU/hr	1000 KCAL/hr	1000 BTU/hr	1000 KCAL/hr	1000 BTU/hr	1000 KCAL/hr
1	1	25.4	0.9	.2	5.7	1.4	9.0	2.3	16.0	4.0
	2	50.8	1.6	.4	8.3	2.1	13.0	3.3	23.0	5.8
2	4	101.6	2.6	.7	12.2	3.1	19.0	4.8	34.0	8.6
	8	203.2	4.0	1.0	18.0	4.5	28.0	7.1	50.0	12.6
3	10	254.0	4.6	1.2	20.5	5.2	32.0	8.1	57.0	14.4
	14	355.6	5.6	1.4	24.7	6.2	39.0	9.8	71.0	17.9
	20	508.0	6.9	1.7	30.0	7.6	47.0	11.8	84.0	21.2
	25	635.0	7.8	2.0	34.0	8.6	53.0	13.4	95.0	23.9
	30	762.0	8.6	2.2	38.0	9.6	59.0	14.9	105.0	26.5
	40	1016.0	9.7	2.4	44.7	11.3	69.0	17.4	123.0	31.0
	50	1270.0	10.8	2.7	50.0	12.6	78.0	19.7	140.0	35.3
	60	1524.0	-	-	56.0	14.1	86.0	21.7	156.0	39.3

- 1: Approx. Range – Low pressure atmospheric inspirator  
 2: Approx. Range – Proportioning mixer  
 3: Approx. Range – Mechanical premix system