



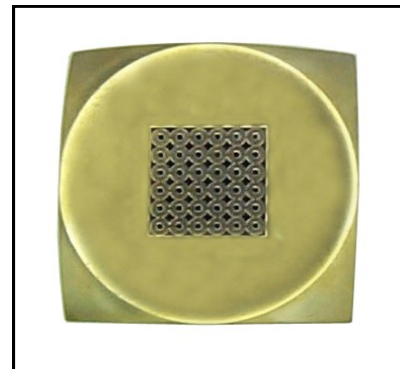
## PK BURNERS

### BULLETIN REFERENCES

Adapters-	Bulletin 24C
Controls-	Bulletins 16A, 16E
Safety-	Bulletins 18A, 18B

The Carlisle PK Burners are manufactured from a brass housing with a stainless steel tube assembly. The tube assembly allows the PK Burner to surface mix a wide range of fuel gases. The PK is capable of utilizing oxygen mixed with either propane, natural gas, mixed gases, or hydrogen.

While primarily designed to burn with a relatively soft and intensely hot fire, the Carlisle PK Burner can also be used with a turbulent, high velocity flame. In fact, this burner has an almost infinite possibility of flame characteristics. Although, it should be noted that when using a low soft flame, oxidizing effects should be maintained. Reducing or normalizing fires in the low flow range will cause premature burn-out of the stainless steel tube assembly. The tube assembly itself is angled slightly inward towards the center of the assembly, giving a focused effect.



PK Burner  
PK-104-373

Carlisle does offer the PK Burner in a totally stainless steel version. This option will prolong the life of the burner by decreasing burner degradation. This option is designated by a "SS" added to the burner number of each individual PK Burner. The housing of the PK Burner has two inlet feed ports which are sized 1/8" FPT. The fuel gas inlet is located center back while the oxygen inlet is found on the PK's side.

As always, Carlisle is willing to work on any special designs that would suit your particular needs. The PK Burner could be manufactured in a hand torch model or even with a water cooling option. If these or other new concepts are what you are looking for, please contact the Carlisle sales staff directly.

CATALOG NUMBER	BURNER NUMBER	TUBE CONFIGURATION	FLAME SPACE	HEIGHT	WIDTH
13A001-0000	PK-104-373	6 X 6	.540" X .540"	1 13/16"	1 1/2"
13A001-1000	PK-104-373-SS	6 X 6	.540" X .540"	1 13/16"	1 1/2"
13A002-0000	PK-105-385	8 X 7	.770" X .675"	1 13/16"	1 1/2"
13A002-1000	PK-105-385-SS	8 X 7	.770" X .675"	1 13/16"	1 1/2"
13A003-0000	PK-104-383	11 X 11	1.000" X 1.000"	2 5/16"	2 1/2"
13A003-1000	PK-104-383-SS	11 X 11	1.000" X 1.000"	2 5/16"	2 1/2"
13A004-0000	PK-104-353	5 X 5	.480" X .480"	1 13/16"	1 1/2"
13A004-1000	PK-104-353-SS	5 X 5	.480" X .480"	1 13/16"	1 1/2"

**Carlisle Machine Works, Inc.,**  
**P.O. Box 746, 412 S. Wade Blvd., Bldg. #5, Millville, NJ 08332**  
**Phone: (856) 825- 0627 Fax: (856) 825 - 5510**  
**Web Site: [www.carlislemachine.com](http://www.carlislemachine.com) E-Mail: [carlisle@carlislemachine.com](mailto:carlisle@carlislemachine.com)**  
**Toll Free In Continental US (800) 922-1167**



# PK 1880 BURNER SERIES



PK-1885-D  
13A105-0000

## BULLETIN REFERENCES

Adapters-	Bulletin 24C
Controls-	Bulletins 16A, 16E
Safety-	Bulletins 18A, 18B

The Carlisle PK 1880 Burners are an all stainless steel construction. The standard PK Burner and the 1880 Series tube assemblies differ in that the 1880 Burner Series face has individual oxygen porting surrounding the gas porting. This allows for a more defined flame. The tube assembly of the 1880 Burner Series is not angled inward like the standard PK Burners. The 1880 Burner Series can be used with natural gas, propane, or hydrogen and oxygen.

The PK 1880 Burner Series has an almost infinite possibility of flame characteristics. Although, it should be noted that when using a low soft flame, oxidizing effects should be maintained. Reducing or normalizing fires in the low flow range will cause premature burn-out of the stainless steel face.

The housing of this Burner Series has a cylindrical shape rather than the square shape of the standard PK Burner. The housing has two inlet feed ports which are sized 1/8" FPT. Both the fuel gas inlet and the oxygen inlet are located on the side of the burner.

As always, Carlisle is willing to work on any special designs that would suit your particular needs. The PK 1880 Burner Series could be manufactured in a hand torch model or even with a water cooling option. If these or other new concepts are what you are looking for, please contact the Carlisle sales staff directly.

CATALOG NUMBER	BURNER NUMBER	NUMBER OF PORTS	FLAME SPACE	HEIGHT	DIAMETER
13A101-0000	PK-1880-A	4	.250" X .250"	1 3/4"	3/4"
13A102-0000	PK-1882-C	9	.375" X .375"	1 3/4"	1"
13A103-0000	PK-1883-C	16	.563" X .563"	1 3/4"	1 1/4"
13A104-0000	PK-1884-A	25	.750" X .750"	1 3/4"	1 1/2"
13A105-0000	PK-1885-D	45	1.000" X 1.000"	1 3/4"	1 3/4"

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# 1880 LINEAR & CUSTOM BURNER SERIES

Carlisle has developed the 1880 Linear & Custom Burner Series to work with many different applications to meet your needs for a versatile design surface mixed burner. The 1880 style burner features an all stainless steel construction. The 1880 Linear & Custom Burner Series can be used with natural gas, propane, or hydrogen and oxygen.

Most of the linear burners we manufacture have a set number of rows of porting. This burner allows the customer to determine not only the length of the burner, but also the width. One of the advantages of the 1880 style is its individual oxygen porting to support each gas port with high oxygen flow, creating an oxygen rich flame. It is this advantage that makes it possible to manufacture burners that are a 2" x 2" square or even a star pattern without worrying about reducing flames towards the center of the burner. There are however, some limitations in size.

The 1880 style burner lends itself to customization of the tube pattern and orientation. Indeed, the burner itself can be modeled after custom shapes and orientations of flame pattern. This can even allow the burner face to be on a radius to use for fixed lathe burners or full circular ring burners. This bulletin offers the 1880 style burner in many different size configurations based on linear, square, and rectangular designs. However, do not hesitate to contact Carlisle Machine Works for information, pricing, and lead times on a custom port pattern of your own design.

## HOW TO ORDER

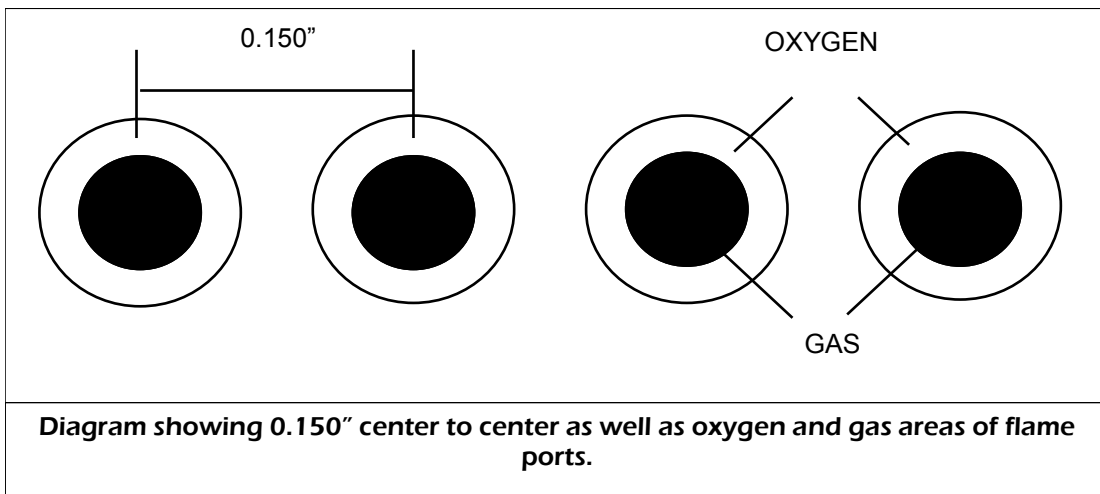
NUMBER OF TUBES TO MAKE UP TUBE WIDTH (SMALLER THAN OR EQUAL TO LENGTH)

**1 3 A 2 0 0 - 0 0 0 - 0 0 0**

NUMBER OF TUBES TO MAKE UP FLAME LENGTH (LARGER THAN OR EQUAL TO WIDTH)

Example: A 3 tube width x 40 tube length 1880 Linear Burner would be:

**1 3 A 2 0 0 - 0 0 3 - 0 4 0**



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