

# **AirHeat Burners AH-MA Series**

	WORK SHE	ET
	Edition 09 Version	
Customer P.O	Eclipse S.O	
Customer	Eclipse Rep	
Customer Signature	Eclipse Rep Signature	
Date	Date	

### **Ordering Information**

In designing your system, the following must be completed:

• Use page 2 to sketch your system:

Follow the instructions on page 2 for designing a burner sytem. Be certain to use the appropriate symbol for each burner and plate section in laying out your application. Also, include the corresponding number for each symbol; numbering each symbol will help in determining the quantity you must order for each respective burner and end plate section. If necessary, refer to the burner sketch example on page 4.

• Use page 3 to determine quantities:

After sketching out your system and numbering the symbols, add the number of each respective symbol used and enter that sum in the "Selection" column of the corresponding Table on page 3 (if necessary, please refer to the example on page 4).

· How pricing is determined:

See the current AH-MA config price list for pricing information.

#### **Graph for Designing Burner System**

Flame direction is into the page (as if viewing the back of burner). Use the appropriate section symbols and numbers as shown. Determine the sum of each numbered section and add that number in the corresponding Table number on page 3. If necessary, refer to the burner sketch layout example on page 4.

Pre-order Entry Engineering Check: Section Symbols & Numbers for Designing the Burner System 6 10 11 12 150mm (6") 300mm (12") 300mm x 150mm 300mm x 300mm Plain End Pilot End Pilot End Straight Straight Straight with Plate Plate (12" x 12") Cross Back Inlet (12" x 6")Tee No Feed 1" Gas Feed 15\* 14 16\* 18\* 19 27 13 17 28 Pilot Angled Angled Flame Burner Feed Burner Feed Divider Plate Hanger Rod Pilot End Flame Pilot End Monitoring Mon. End Plate End Plate **End Plate** for Mounting Plate Plate Mon. End Plate 1.5" Gas Feed 2" Gas Feed Staged Burners Bracket End Plate with Flame No Feed Monitoring \* Direct spark ignition up to 18" long (450 mm) uses the flame monitoring end plate or burner feed with flame monitoring

Post-Assembly Inspection:

end plate #14, #15 or #17 with ignition plug #19 and/or flame rod #20 or #21.

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## **Ordering List**

- Determine the sum of each numbered section on page 2 and add that number in the corresponding Table number below.
- Table No. 2 through 19 apply to the overall burner system layout and the necessary figures to achieve it.
- Table No. 20 through 29 deterrmine the costs of the overall burner system.
- If necessary, refer to the ordering list example on page 4.

Table No.	Desc	cription		Selection	Lineal Ft. Multiplier	Lineal Ft. Subtotal	
2	Aluminum Sta Corrosion Resistant CI Sta Cast Iron Low Aluminum Low	w Ø2.4mm	Option A C L P S				
3 4 5 6 7 8	Assembled system (enter B.S.P (enter B) or N.P.T (enter B) or N.P.T (enter B) or N.P.T (enter B.S.P (enter B) or N.P.T (enter B) or N.P.T. (enter	enter N) pipe threads t sections t sections t section with back i	8		X 0.5 = X 1.0 = X 1.0 = X 1.5 =		
9 10	Number of 150mm by 300 Number of 300mm by 300 Number of plain end plate	mm cross sections			X 2.0 =		
11 12	Number of pilot end plates  Number of pilot end plates	s with 1" Gas Feed					
13 14 15 16 17 18 19	Number of pilot end plates Number of pilot end plates Number of pilot angled flan Number of flame monitorir Number of angled flame m Number of burner feed en Number of burner feed en	s with 2" Gas Feed me monitoring end p ng end plates nonitoring end plates d plates with flame r	olates				
	Total lineal feet of burner s	system (add Tables	_			·	
	cost per lineal foot for all	st iron burner bodies	s (L,S)			x =	\$
20	cost per lineal foot for optional corrosion resistant burner bodies (C) x =  Number of igntion plugs(must use with items 10 - 14)x /each =				\$		
21 22	Number of flame rods				\$ \$		
23	Number of angled U.V. sc						\$
24	Number of U.V. scanner ad	•					\$
25 26	Number of angled U.V. scanner adapters, 3/4" N.P.T. (use w/ #15 or #17 only) x /each =  Number of U.V. scanner adapters, 1" N.P.T			\$ \$			
27 28 29	Number of divider plates f Number of hanger rod mo Certified drawing charge	or stagingunting brackets			;	/each =	\$ \$ \$
	TOTAL LIST PRICE SCHEDULE I DISCOUNT TOTAL NET PRICE	MULTIPLIER				x	\$  \$

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## **Burner Sketch & Ordering List Example**

In this example, the sketch depicts a two stage burner with flame rod flame detection on both stages. The ordering list summarizes the component quantities of the system drawn in the sketch.

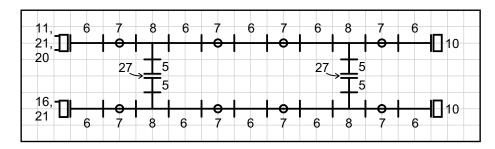


Table No.	Description	Selection	Lineal Ft. Multiplier	Lineal Ft. Subtotal		
2	Gas Manifold         Pressure Standard         Gas Ports         Option           Aluminum         Standard         Ø2.0mm         A           Corrosion Resistant CI         Standard         Ø2.0mm         C           Cast Iron         Low         Ø2.4mm         L           Aluminum         Low         Ø2.4mm         P           Cast Iron         Standard         Ø2.0mm         S					
3	Assembled system (enter A) or Individual sections (enter I)					
4	B.S.P (enter B) or N.P.T (enter N) pipe threads	4	X 0.5 =	2		
5 6	Number of 150mm straight sections  Number of 300mm straight sections	10	X 0.5 =	10		
7	Number of 300mm straight sections  Number of 300mm straight section with back inlet	8	X 1.0 =	8		
8	Number of 150mm by 300mm tee sections	4	X 1.5 =	6		
9	Number of 300mm by 300mm cross sections	0	X 2.0 =	0		
10	Number of plain end plates	2				
11	Number of pilot end plates with no feed	1				
12	Number of pilot end plates with 1" Gas Feed	0				
13	Number of pilot end plates with 1.5" Gas Feed	0				
14	Number of pilot end plates with 2" Gas Feed	0				
15 16	Number of pilot angled flame monitoring end plates					
17	Number of flame monitoring end plates  Number of angled flame monitoring end plates	0				
18	Number of burner feed end plates with flame monitoring	0				
19	Number of burner feed end plates	0				
	Total lineal feet of burner system (add Tables 4 through 10 subtotals for total lineal feet)					
	cost per lineal foot for aluminum burner bodies (AP) x <u>0</u> =					
	cost per lineal foot for cast iron burner bodies (L,S) x 26 =				\$	
	cost per lineal foot for optional corrosion resistant burner bodies (C) $x = 0$				\$0	
20	Number of igntion plugs (must use with items 10 - 14) 1 x /each =			\$		
21	Number of flame rods 2 x /each =			\$		
22	Number of UV.scanner adapters,1/2" N.P.T			\$0		
23	Number of angled U.V. scanner adapters,1/2" N.P.T x /each =			\$		
24	Number of UV scanner adapters, 3/4" N.P.T (use w/ #15 or #17 only) 0 x _/each =		\$_0			
25	Number of angled U.V. scanner adapters, 3/4" N.P.Tx /each =			\$		
26	Number of UV.scanner adapters,1" N.P.T. (use w/ #15 or #17 only) x /each =			\$_0		
27	Number of divider plates for staging 2_x /each =		\$			
28	Number of hanger rod mounting bracketsx /each =			\$		
29	Certified drawing charge =				\$	
	TOTAL LIST PRICE			=	\$	
	SCHEDULE I DISCOUNT MULTIPLIER					
	TOTAL NET PRICE			=	\$	

