# Eclipse AirHeat Burners

AH-MA Series

Worksheet Edition 6.11

Version 2

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 160 AH-MA Config price list for current price 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 9 10 11 150mm (6") 300mm (12") 300mm (12") Pilot End Plain End Pilot End Straight Straight Straight with 300mm x 150mm 300mm x 300mm Plate Plate Plate (12" x 6") Tee Back Inlet (12" x 12") Cross 1" Gas Feed No Feed 14\* 12 13 15\* 16 17\* 18 24 25 Pilot End Pilot End Pilot Angled Flame Angled Flame Burner Feed Burner Feed Divider Plate Hanger Rod Mon. End Plate Monitoring End Plate **End Plate** for Mounting Mon. End Plate Plate Plate Bracket 1.5" Gas Feed 2" Gas Feed End Plate with Flame Staged Burners No Feed Monitoring \* Direct spark ignition up to 18" long (450 mm) uses the flame monitoring end plate or burner feed with flame monitoring end plate #14, #15 or #17 with ignition plug #19 and/or flame rod #20 or #21.



### **Ordering List**

- Determine the sum of each numbered section on page 2 and add that number in the corresponding Table number below.
- Tables 1 through 15 apply to the overall burner system layout and the necessary figures to achieve it.
- Tables 16 through 22 deterrmine the costs of the overall burner systm.
- If necessary, refer to the ordering list example on page 4.

Table No.		Description			Selection	Lineal Ft. Multiplier	Lineal Ft. Subtotal	
1	Gas Manifold Aluminum Corrosion Resistant CI Cast Iron Aluminum Cast Iron	Pressure Standard Standard Low Low Standard	Gas Ports Ø2.0mm Ø2.0mm Ø2.4mm Ø2.4mm Ø2.0mm	Option A C L P S	3			
2	Assembled system (e	nter A) or Ir	dividual sect	ions (enter I)				
3	B.S.P (enter B) or N.P.T (enter N) pipe threads							
4	Number of 150mm straight sections X 0.5 =							
5	Number of 300mm str	aight sectio	ns			X 1.0 =		
6	Number of 300mm straight section with back inlet  X 1.0 =							
7	Number of 150mm by					X 1.5 =		
8	Number of 300mm by 300mm cross sections X 2.0 =							
9	Number of plain end p	lates						
10	Number of pilot end p	ates with n	o feed					
11	Number of pilot end p	lates with 1	' Gas Feed					
12	Number of pilot end p	lates with 1	.5" Gas Feed					
13	Number of pilot end p	ates with 2	' Gas Feed					
14	Number of pilot angle	d flame mor	nitoring end p	olates				
15	Number of flame mon	itoring end	olates					
16	Number of angled flan	ne monitorii	ng end plates	5				
17 18	Number of burner feet Number of burner feet			nonitoring				
	Total lineal feet of burn	ner system	(add Tables	4 through 10 s	subtotals fo	r total lineal	feet)	
	cost per lineal foot fo	or alumirum	burner bodie	es (AP)			x =	\$
	cost per lineal foot fo						x =	\$
	cost per lineal foot fo						x =	\$
19		-						\$
20					\$			
	Number of flame rodsx /each =							
21	Number of UV scanner adapters,1/2" N.P.Tx /each =					\$		
22	Number of UV scanner adapters,3/4" N.P.T. (use w/ #15 or #17 only)x /each =					\$		
23	Number of UV. scanner adapters,1" N.P.T. (use w/ #15 or #17 only)x /each =					\$		
24	Number of divider plates for stagingx /each =					\$		
25	Number of hanger roo	_						\$
26	Certified drawing char							\$
	TOTAL LIST PRICE SCHEDULE I DISCO							\$
	TOTAL NET PRICE							\$



## **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.

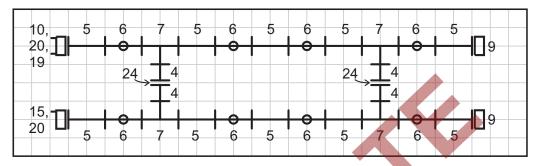


Table No.	Lineal Ft. Lineal Ft. Selection Selection Multiplier Subtotal						
1	Gas Manifold         Pressure         Gas Ports         Option           Aluminum         Standard         Ø2.0mm         A           Corrosion Resistant CI         Standard         Ø2.0mm         C           Cast Iron         Low         Ø2.4mm         L           Aluminum         Low         Ø2.4mm         P           Cast Iron         Standard         Ø2.0mm         S	C					
2	Assembled system (enter A) or Individual sections (enter I)						
3	B.S.P (enter B) or N.P.T (enter N) pipe threads						
4	Number of 150mm straight sections 4 X 0.5 = 2						
5	Number of 300mm straight sections 10 X 1.0 = 10	_					
6	Number of 300mm straight section with back inlet 8 X 1.0 = 8	_					
7	Number of 150mm by 300mm tee sections 4 X 1.5 = <u>6</u>	-					
8	Number of 300mm by 300mm cross sections 0 X 2.0 = 0	-					
9	Number of pilot and plates with no feed						
10 11	Number of pilot end plates with no feed  Number of pilot end plates with 1" Gas Feed  0						
12	Number of pilot end plates with 1.5" Gas Feed						
13	Number of pilot end plates with 2" Gas Feed 0						
14	Number of pilot angled flame monitoring end plates0_						
15	Number of flame monitoring end plates						
16	Number of angled flame monitoring end plates						
17 18	Number of burner feed end plates with flame monitoring  Number of burner feed end plates  0						
10	Total lineal feet of burner system (add Tables 4 through 10 subtotals for total lineal feet)						
	cost per lineal foot for alumirum burner bodies (AP) x _ 0_	= \$ 0					
	cost per lineal foot for cast iron burner bodies (L,S)						
	cost per lineal foot for optional corrosion resistant burner bodies (C) x 0	= \$ 0					
19	Number of igntion plugs (must use with items 10 - 14)						
20	Number of flame rods						
21	Number of UV scanner adapters,1/2" N.PT 0x /each						
22	Number of UV.scanner adapters,3/4" N.P.T. (use w/ #15 or #17 only) 0 x /each						
23	Number of UV. scanner adapters,1" N.P.T. (use w/ #15 or #17 only) x /each						
24	Number of divider plates for staging						
25	Number of hanger rod mounting bracketsx /each =						
26	Certified drawing charge	= \$					
	TOTAL LIST PRICE						
	SCHEDULE I DISCOUNT MULTIPLIER TOTAL NET PRICE	x =   \$					
	TO TAE RELITING	- μ Ψ					

