

ARCHITECTURAL ICON 8

Steam Heated Air Curtain
Data Sheet

Recommended for Mounting Heights to 8' (environmental separation) and 7' (insect control)

STANDARD CONSTRUCTION

- 8 1/4" high x 16" deep
- 1/5 hp motor(s) ten speeds
- Factory installed Intelliswitch™ digital controller
- · Clear satin anodized aluminum exterior
- · Wall or Top Mounting
- · High efficiency, low noise, articulating, three vane, Pro-V Nozzle
- Factory installed coil
- · Filter (washable)

OPTIONS

- 1/5 hp EC motor(s) ten speeds
- · Custom Color or Stainless
- · Rear cover for top mounting to conceal fasteners
- Berner AIR™ (smart controller & app, includes BACnet)

Energy Codes ASHRAE 90.1-2019, IECC 2018, and ASHRAE 189.1 vestibule exception validated by AMCA certification.

Refer to Velocity Projection Chart below for information.



Berner International certifies that the air curtains shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program. Rated data shown is for base (steam heated) units. The AMCA Certified Ratings Seal applies to airflow rate, average outlet velocity, outlet velocity uniformity, velocity projection and power rating at free delivery only.

2 Year Limited Warranty









MODEL	Nozzle Width (in)	Max Vel. at Nozzle (fpm)	Avg. Outlet Vel. (fpm)	Air Volume (cfm)	Outlet Vel. Uniformity	Power Rating (kW)	Motor(s) @ hp	Coil Output (MBH)	Inlet Pressure (PSIG)	Condensate (lbs/hr)	Air Temp. Rise (°F)	Net Wt. (lbs)
AI08-E-1036S	36.00	2,054	1,545	869	84%	0.19	1 @ 1/5	44.5	5	45.8	47°	68
AI08-E-1042S	42.00	1,985	1,547	1,015	82%	0.20	1 @ 1/5	52.4	5	54.0	48°	76
AI08-E-1048S	48.00	2,013	1,585	1,189	80%	0.23	1 @ 1/5	61.1	5	62.9	47°	83
AI08-E-1060S	59.00	2,040	1,552	1,431	80%	0.26	1 @ 1/5	75.6	5	77.9	49°	99
AI08-E-1072S	72.00	1,928	1,394	1,568	83%	0.28	1 @ 1/5	87.1	5	89.8	51°	117
AI08-E-2084S	84.00	1,985	1,547	2,030	82%	0.41	2 @ 1/5	107.7	5	111.0	49°	149
AI08-E-2096S	96.00	2,013	1,585	2,378	80%	0.46	2 @ 1/5	125.1	5	128.9	49°	164
AI08-E-2108S	108.00	2,040	1,553	2,620	80%	0.49	2 @ 1/5	139.6	5	143.8	49°	180
Al08-E-2120S	118.00	2,040	1,552	2,862	80%	0.53	2 @ 1/5	152.1	5	156.7	49°	196

See sheets EP-284E-AC & EP-284E-EC for amp draws/total load requirements.

600/3/60 power supply includes transformer housing, See drawing Al08-E-STM-600 NOTES:

- 1. Standard connection same end supply/return.
- Coil should be field supplied with a solenoid/control valve that energizes only when air curtain is energized. Consideration must be taken for freeze protection when necessary.
- 3. Coil performance based on 65°F entering air temperature.
- 4. Maximum leaving air temperature shall not exceed 120F.
- 5. Consult factory for alternate steam pressures.

Sound data is not AMCA certified.

6. Operation of standard motor (AC) at 50Hz will generate a 17% reduction in performance; no reduction for optional EC motors.

MODEL NUMBER CONFIGURATION Series # of Motors **Opening Width** Heat Opt. Control Opt. Cabinet Finish AC & EC motors S=Steam AC= Standard Ε 036" - 120" AI08 1, 2 $A = 120/1/60^{\circ}$ WCA= Heated SS=Stainless Steel Motor B = 208/1/60**Berner** CC=Custom Color EC= Optional J = 240/1/60AIR™ Motor V = 220/1/50smart control A-XI = 600/3/60 †for Standard offering, leave options (Opt.) blank EC motors only W = 277/1/60VELOCITY PROJECTION: Model AI08-E-1036S *Suitable for 50 Hz † Add 5" for transformer 120 Distance from Nozzle (in) 40 80 housina Core Velocity (fpm) 859 588 547 Sound level measured 10' (3m) from the unit in free field: 1 motor: Min./Max. Speed: 50/55 dBA Uniformity (%) 89% 87% 91% 2 motors: Min./Max. Speed: 53/58 dBA ASHRAE 90.1-2019 vestibule exception requires, "a jet velocity of not less

Berner reserves the right to alter specifications without prior notice.

than 6.6 feet per second (400 fpm; 2.0 m/s) at 6.0 in (15 cm) above the floor."



ARCHITECTURAL ICON 8 - AC MOTORS

Steam Heated Air Curtain Electrical Performance Sheet

120/1/60 (voltage code A) MOTOR AMP DRAW = 3.4 each				208/1/60 (volta MOTOR AMP DR		240/1/60 (voltage code J) or 220/1/50 (voltage code V) MOTOR AMP DRAW = 1.7 each			
MODEL	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
AI08-E-1036S AI08-E-1042S AI08-E-1048S AI08-E-1060S AI08-E-1072S	1	3.4	15	1	1.7	15	1	1.7	15
AI08-E-2084S AI08-E-2096S AI08-E-2108S AI08-E-2120S	1	6.8	15	1	3.4	15	1	3.4	15

		600/3/60 (voltag XFMR 600/120 0.5kVA MOTOR AMP DRAW =	per MTR @0.8 each		* Consult Factory 277/1/60 (voltage code W) MOTOR AMP DRAW = ?? each				
MODEL	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT			
AI08-E-1036S AI08-E-1042S AI08-E-1048S AI08-E-1060S AI08-E-1072S	1	0.8	15	*	*	*			
AI08-E-2084S AI08-E-2096S AI08-E-2108S AI08-E-2120S	1	1.6	15	*	*	*			

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AI08-E-1036S AI08-E-1042S AI08-E-1048S

AI08-E-1060S AI08-E-1072S AI08-E-2084S AI08-E-2096S

AI08-E-2108S AI08-E-2120S 1

8.0

1.7

15

15

ARCHITECTURAL ICON 8 - EC MOTORS

Steam Heated Air Curtain Electrical Performance Sheet

								240/1/60 (voltag	ge code J) or
		120/1/60 (voltage code A)			208/1/60 (voltage code B)			220/1/50 (voltage code V)	
MOTOR AMP DRAW = 4.4 each				MOTOR AMP DRAW = 2.5 each			MOTOR AMP DRAW = 2.5 each		
MODEL	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
AI08-E-1036S AI08-E-1042S AI08-E-1048S AI08-E-1060S AI08-E-1072S	1	4.4	15	1	2.5	15	1	2.5	15
AI08-E-2084S AI08-E-2096S AI08-E-2108S AI08-E-2120S	1	8.8	15	1	5.0	15	1	5.0	15
		600/3/60 (voltage code A-XI) XFMR 600/120 0.5kVA per MTR @0.8 each MOTOR AMP DRAW = 4.4 each @ 120V			277/1/60 (volta MOTOR AMP DR	•			
MODEL	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT			

2.2

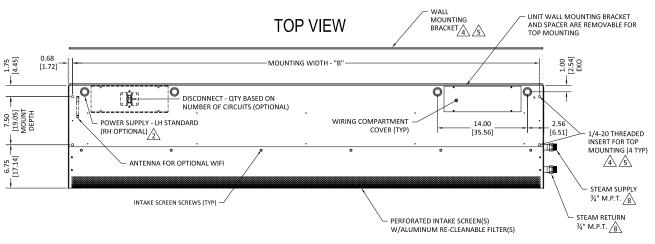
4.4

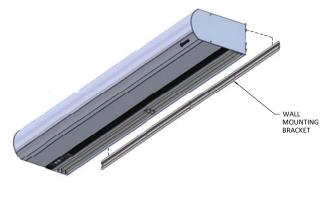
15

15

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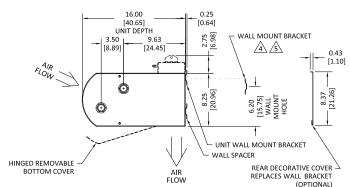
AIO8-E STEAM HEATED SYSTEM: 120 - 277V

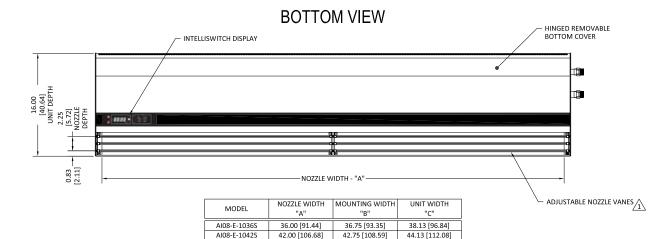




END VIEW

HOUSING FOR OPTIONAL 3.56 LOCKABLE DISCONNECT [9.05] FRONT VIEW 2.00 -UNIT WIDTH - "C"-[5.08]





48.00 [121.92]

59.00 [149.86]

72.00 [182.88]

84.00 [213.36]

96.00 [243.84]

108.00 [274.32]

118.00 [299.72]

AI08-E-1048S

AI08-E-1060S

AI08-E-1072S AI08-E-2084S

AI08-E-2096S

AI08-E-2108S

AI08-E-2120S

48.75 [123.83]

59.75 [151.76]

72.75 [184.79]

84.75 [215.27]

96.75 [245.75]

108.75 [276.23]

118.75 [301.63]

50.13 [127.32]

61.13 [155.26]

74.13 [188.28]

86.13 [218.76]

98.13 [249.24]

110.13 [279.72]

120.13 [305.12]

NOTES:

AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT OBSTRUCTED WHEN DEFLECTED 20° TO EITHER SIDE OF G.

ELECTRICAL CONNECTIONS TO BE FLEXIBLE.

FIELD VERIFY DIMENSIONS

4 ANCHORS TO SUPPORTING STRUCTURE BY OTHERS.

ADEQUACY OF SUPPORTING STRUCTURE IS TO BE VERIFIED BY A PROFESSIONAL STRUCTURAL ENGINEER.

THE LAST CHARACTER IN THE MODEL NUMBER - "S" DESIGNATES STEAM HEATED UNIT.

DIMENSIONS IN INCHES [CENTIMETERS].

COIL CONNECTIONS RH STANDARD (AS SHOWN), OPTIONAL LH.

SHEET 1 OF 1

PROJECT		REV -	-							
LOCATION										
ARCHITECT										
ENGINEER										
DWG. NO.	AI08-E-WTR-120	TITLE: BERNER								
DATE	23FEB2023	MODEL AI08-E AIR CURTAIN 120 - 277V								
BY	D.Johnson	STEAM HEATED SYSTEM								
REPLACES	-	BERNER INTERNATIONAL CORP.	_							
		DEMINENT INTERNATIONAL COM.								

