

ARCHITECTURAL ICON 8

Hot Water 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 (hot water 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









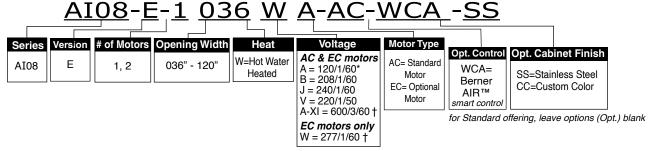
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MODEL	Nozzle Width (in)	Max Vel. at Nozzle (fpm)	Avg. Outlet Vel. (fpm)	Air Volume (cfm)	Outlet Vel. Uniformity	Raung	Motor(s) @ hp	Coil Output (MBH)	Entering / Leaving Water Temp. (°F)	Water Flow (GPM)	Fluid Pressure Drop (FT. WG.)	Air Temp. Rise (°F)	Net Wt. (lbs)
AI08-E-1036W	36.00	2,054	1,545	869	84%	0.19	1 @ 1/5	27.1	180° / 166°	4.0	1.3	29°	68
AI08-E-1042W	42.00	1,985	1,547	1,015	82%	0.20	1 @ 1/5	32.9	180° / 166°	5.0	2.1	30°	75
AI08-E-1048W	48.00	2,013	1,585	1,189	80%	0.23	1 @ 1/5	37.9	180° / 164°	5.0	2.1	29°	83
AI08-E-1060W	59.00	2,040	1,552	1,431	80%	0.26	1 @ 1/5	46.0	180° / 161°	5.0	2.2	29°	99
AI08-E-1072W	72.00	1,928	1,394	1,568	83%	0.28	1 @ 1/5	55.8	180° / 164°	7.0	4.4	32°	117
AI08-E-2084W	84.00	1,985	1,547	2,030	82%	0.41	2 @ 1/5	67.3	180° / 160°	7.0	4.6	30°	149
AI08-E-2096W	96.00	2,013	1,585	2,378	80%	0.46	2 @ 1/5	80.4	180° / 162°	9.0	7.8	31°	164
AI08-E-2108W	108.00	2,040	1,553	2,620	80%	0.49	2 @ 1/5	88.6	180° / 160°	9.0	8.0	31°	180
AI08-E-2120W	118.00	2,040	1,552	2,862	80%	0.53	2 @ 1/5	97.4	180° / 160°	10.0	10.1	31°	196

See sheets EP-286E-AC & EP-286E-EC for amp draws/total load requirements.

600/3/60 power supply includes transformer housing, See drawing Al08-E-WTR-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 entering air & water temperatures or GPM's.
- 6. Operation of standard motor (AC) at 50Hz will generate a 17% reduction in performance; no reduction for optional EC motors.

MODEL NUMBER CONFIGURATION



*Suitable for 50 Hz † Add 5" for transformer housing

Sound level measured 10' (3m) from the unit in free field:

1 motor: Min./Max. Speed: 50/55 dBA 2 motors: Min./Max. Speed: 53/58 dBA

Sound data is not AMCA certified.

ASHRAE 90.1-2019 vestibule exception requires, "a jet velocity of not less than 6.6 feet per second (400 fpm; 2.0 m/s) at 6.0 in (15 cm) above the floor."

40

859

89%

VELOCITY PROJECTION: Model Al08-E-1036W

Distance from Nozzle (in)

Core Velocity (fpm)

Uniformity (%)

Berner reserves the right to alter specifications without prior notice.

www.berner.com Berner International 800.245.4455 111 Progress Ave. / New Castle / PA / 16101 / USA 120

547

91%

80

588

87%



ARCHITECTURAL ICON 8 - AC MOTORS

Hot Water Heated Air Curtain Electrical Performance Sheet

								240/1/60 (voltag	je code J) or
		120/1/60 (voltage code A) MOTOR AMP DRAW = 3.4 each			208/1/60 (volta MOTOR AMP DR	•		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-1036W AI08-E-1042W AI08-E-1048W AI08-E-1060W AI08-E-1072W	1	3.4	15	1	1.7	15	1	1.7	15
AI08-E-2084W AI08-E-2096W AI08-E-2108W AI08-E-2120W	1	6.8	15	1	3.4	15	1	3.4	15
		600/3/60 (voltage code A-XI)			* Consult	•			

		XFMR 600/120 0.5kVA MOTOR AMP DRAW :	per MTR @0.8 each		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-1036W AI08-E-1042W AI08-E-1048W AI08-E-1060W AI08-E-1072W	1	0.8	15	*	*	*	
AI08-E-2084W AI08-E-2096W AI08-E-2108W AI08-E-2120W	1	1.6	15	*	*	*	

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AI08-E-2096W

AI08-E-2108W AI08-E-2120W 1.7

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ARCHITECTURAL ICON 8 - EC MOTORS

Hot Water Heated Air Curtain Electrical Performance Sheet

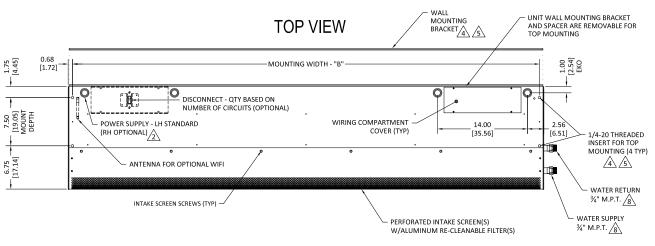
								240/1/60 (voltage code J) or	
		120/1/60 (voltage code A)			208/1/60 (volta	ge code B)		220/1/50 (voltage code V)	
		MOTOR AMP DRAW = 4.4 each			MOTOR AMP DR		MOTOR AMP DRAW = 2.5 each		
MODEL	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
AI08-E-1036W AI08-E-1042W AI08-E-1048W AI08-E-1060W AI08-E-1072W	1	4.4	15	1	2.5	15	1	2.5	15
AI08-E-2084W AI08-E-2096W AI08-E-2108W AI08-E-2120W	1	8.8 15		1	5.0	15		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		per MTR @0.8 each	Ī	277/1/60 (volta MOTOR AMP DR	- :				
MODEL	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT			
AI08-E-1036W AI08-E-1042W AI08-E-1048W AI08-E-1060W AI08-E-1072W	1	0.8	15	1	2.2	15			
AI08-E-2084W									

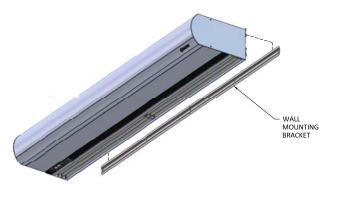
Berner reserves the right to alter specifications without prior notice.

4.4

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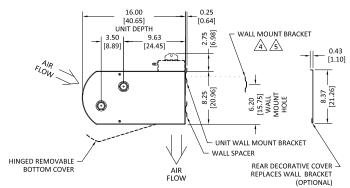
AIO8-E WATER HEATED SYSTEM: 120 - 277V

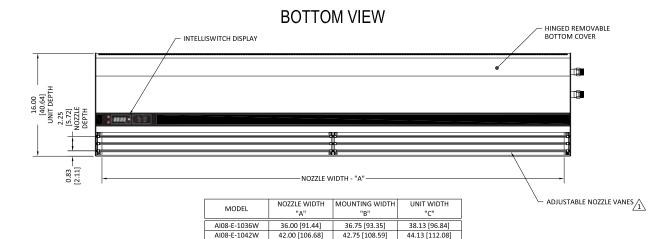




END VIEW

FRONT VIEW HOUSING FOR OPTIONAL LOCKABLE DISCONNECT FRONT VIEW UNIT WIDTH - "C" HOUSING FOR OPTIONAL LOCKABLE DISCONNECT FRONT VIEW UNIT WIDTH - "C" - 2.00 [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-1048W

AI08-E-1060W

AI08-E-1072W

AI08-E-2084W

AI08-E-2096W

AI08-E-2108W

AI08-E-2120W

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.

2 ELECTRICAL CONNECTIONS TO BE FLEXIBLE.

FIELD VERIFY DIMENSIONS

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 – "W" DESIGNATES WATER HEATED UNIT.

DIMENSIONS IN INCHES [CENTIMETERS].

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

SHEET 1 OF 1 PROJECT REV LOCATION ARCHITECT ENGINEER AI08-E-WTR-120 DWG NO BERNER 23FEB2023 DATE MODEL AI08-E AIR CURTAIN 120 - 277V D.Johnson WATER HEATED SYSTEM REPLACES BERNER INTERNATIONAL CORP.

