

## ARCHITECTURAL ICON 8 Hot Water Heated Air Curtain Data Sheet

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.

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

#### STANDARD CONSTRUCTION

- 8 ¼" high x 16" deep
- 1/5 hp motor(s) ten speeds
- Factory installed Intelliswitch<sup>™</sup> 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)



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.







MODEL	Nozzle Width (in)	Max Vel. at Nozzle (fpm)	Avg. Outlet Vel. (fpm)		Outlet Vel. Uniformity	Power Rating (kW)	Motor(s) @ hp	Coil Output (MBH)	Entering / Leaving Water Temp. (°F)	Water Flow (GPM)	Fluid Pres- sure Drop (FT. WG.)	Air Temp. Rise (°F)	Net Wt. (Ibs)
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.

2. 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 CONFIG	GURATION				
AIO8-E-1 O36 W   Series Version # of Motors Opening Width Heat   AI08 E 1, 2 036" - 120" W=Hot Water Heated	Voltage     Mot       AC & EC motors     AC=       A = 120/1/60*     B = 208/1/60       J = 240/1/60     EC=	or Type Standard Motor Optional Motor Motor Standard offering, leave option	eel lor	ınk	
	*Suitable for 50 Hz † Add 5" for transformer	VELOCITY PROJECTION: M	lodel Al	08-E-1	036W
	housing	Distance from Nozzle (in)	40	80	120
Sound level measured 10' (3m) from the unit in free field:		Core Velocity (fpm)	859	588	547
1 motor: Min./Max. Speed: 50/55 dBA		Uniformity (%)	89%	87%	91%
2 motors: Min./Max. Speed: 53/58 dBA Sound data is not AMCA certified.		ASHRAE 90.1-2019 vestibule exception red than 6.6 feet per second (400 fpm; 2.0 m/s)			

Berner reserves the right to alter specifications without prior notice.

DS-286E October, 2023



# ARCHITECTURAL ICON 8 - AC MOTORS Hot Water 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	# СКТS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# СКТЅ	AMPS PER CIRCUIT	CUIT BREAKER RATING PER CIRCUIT		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
Al08-E-2084W Al08-E-2096W Al08-E-2108W Al08-E-2120W	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	# сктѕ	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# сктѕ	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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# ARCHITECTURAL ICON 8 - EC MOTORS Hot Water Heated Air Curtain Electrical Performance Sheet

		120/1/60 (voltage code A) MOTOR AMP DRAW = 4.4 each			208/1/60 (voltage code B) MOTOR AMP DRAW = 2.5 each			240/1/60 (voltag 220/1/50 (volta MOTOR AMP DR	ge code V)
MODEL	# СКТЅ	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# СКТЅ	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# СКТЅ	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	1	5.0	15

		600/3/60 (voltag XFMR 600/120 0.5kVA MOTOR AMP DRAW :	per MTR @0.8 each		277/1/60 (voltage code W) MOTOR AMP DRAW = 2.2 each			
MODEL	# сктѕ	AMPS PER CIRCUIT BREAKER RATING PER CIRCUIT		# сктѕ	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 AI08-E-2096W AI08-E-2108W AI08-E-2120W	1	1.7	15	1	4.4	15		

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