

#### **ARCHITECTURAL ICON 10**

Ambient (Unheated) Air Curtain
Data Sheet

Recommended for Mounting Heights to 10' (environmental separation) and 8' (insect control)

#### STANDARD CONSTRUCTION

- 12 3/4" high x 22" deep
- 1/2 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
- · Filter (washable)

#### **OPTIONS**

- 1/2 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 (unheated) 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.

5 Year Limited Warranty







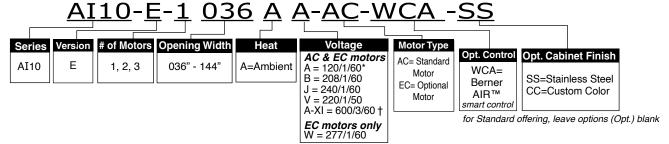


MODEL	Nozzle Width (in)	Max Vel. at Nozzle (fpm)	Avg. Outlet Vel. (fpm)	Air Volume (cfm)	Outlet Vel. Uniformity	Power Rating (kW)	Motor(s) @ hp	Net Wt. (lbs)
AI10-E-1036A	36.00	3,440	2,071	1,424	80%	0.51	1 @ ½	85
AI10-E-1042A	42.00	3,711	1,849	1,483	82%	0.52	1 @ ½	94
AI10-E-1048A	48.00	3,975	1,973	1,809	92%	0.63	1 @ ½	110
AI10-E-1060A	59.00	3,803	1,619	1,824	82%	0.61	1 @ ½	119
AI10-E-2072A	72.00	3,440	2,071	2,848	80%	1.02	2 @ ½	170
Al10-E-2084A	84.00	3,711	1,849	2,966	82%	1.04	2 @ ½	188
Al10-E-2096A	96.00	3,975	1,973	3,618	92%	1.26	2 @ ½	220
Al10-E-2108A	108.00	3,975	1,761	3,633	82%	1.24	2 @ ½	229
AI10-E-2120A	118.00	3,803	1,619	3,648	82%	1.22	2 @ ½	238
AI10-E-3132A	132.00	3,975	2,000	5,042	80%	1.77	3 @ ½	305
AI10-E-3144A	144.00	3,975	1,973	5,427	92%	1.89	3 @ ½	330

See sheets EP-290E-AC & EP-290E-EC for amp draws/total load requirements. 600/3/60 power supply includes extended cabinet, See drawing Al10-E-AMB-600

NOTE: 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 † Cabinet width increases for transformer

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

 1 motor:
 Min./Max. Speed:
 53/56 dBA

 2 motors:
 Min./Max. Speed:
 56/59 dBA

 3 motors:
 Min./Max. Speed:
 59/61 dBA

Sound data is not AMCA certified.

 VELOCITY PROJECTION: Model Al10-E-1036A

 Distance from Nozzle (in)
 40
 80
 120
 160

 Core Velocity (fpm)
 1454
 971
 918
 748

 Uniformity (%)
 88%
 91%
 92%
 95%

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."

Berner reserves the right to alter specifications without prior notice.



# **ARCHITECTURAL ICON 10 - AC MOTORS**

Ambient (Unheated) Air Curtain Electrical Performance Sheet

120/1/60 (voltage code A)  MOTOR AMP DRAW = 8.5 each				208/1/60 (volta MOTOR AMP DR		240/1/60 (voltage code J) or 220/1/50 (voltage code V) MOTOR AMP DRAW = 4.3 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
AI10-E-1036A AI10-E-1042A AI10-E-1048A AI10-E-1060A	1	8.5	15	1	4.3	15	1	4.3	15
AI10-E-2072A AI10-E-2084A AI10-E-2096A AI10-E-2108A AI10-E-2120A	1	17.0	25	1	8.6	15	1	8.6	15
AI10-E-3132A AI10-E-3144A	1	25.5	35	1	12.9	20	1	12.9	20

		600/3/60 (voltag	e code A-XI)		* Consult Factory			
		XFMR 600/120 1 kVA p	er MTR @ 1.7 each		277/1/60 (voltage code W)			
		MOTOR AMP DRAW	= 6.6 each @ 120V		MOTOR AMP DRAW = *.* each			
MODEL	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		
AI10-E-1036A AI10-E-1042A AI10-E-1048A AI10-E-1060A	1	1.7	15	*	*	*		
AI10-E-2072A AI10-E-2084A AI10-E-2096A AI10-E-2108A AI10-E-2120A	1	3.3	15	*	*	*		
AI10-E-3132A AI10-E-3144A	1	5.0	15	*	*	*		

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# **ARCHITECTURAL ICON 10 - EC MOTORS**

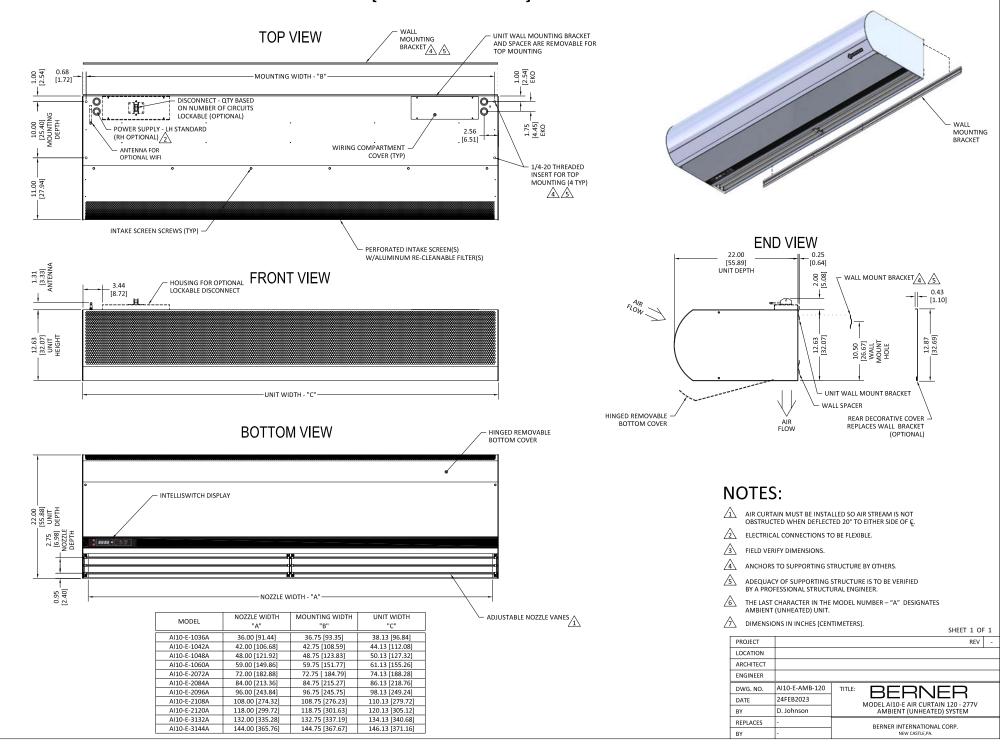
Ambient (Unheated) Air Curtain Electrical Performance Sheet

	120/1/60 (voltage code A)  MOTOR AMP DRAW = 6.6 each				208/1/60 (volta MOTOR AMP DR	· '		240/1/60 (voltage code J) or 220/1/50 (voltage code V) MOTOR AMP DRAW = 4.1 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
AI10-E-1036A AI10-E-1042A AI10-E-1048A AI10-E-1060A	1	6.6	15	1	4.1	15	1	4.1	15
AI10-E-2072A AI10-E-2084A AI10-E-2096A AI10-E-2108A AI10-E-2120A	1	13.2	20	1	8.2	15	1	8.2	15
AI10-E-3132A AI10-E-3144A	1	19.8	25	1	12.3	20	1	12.3	20

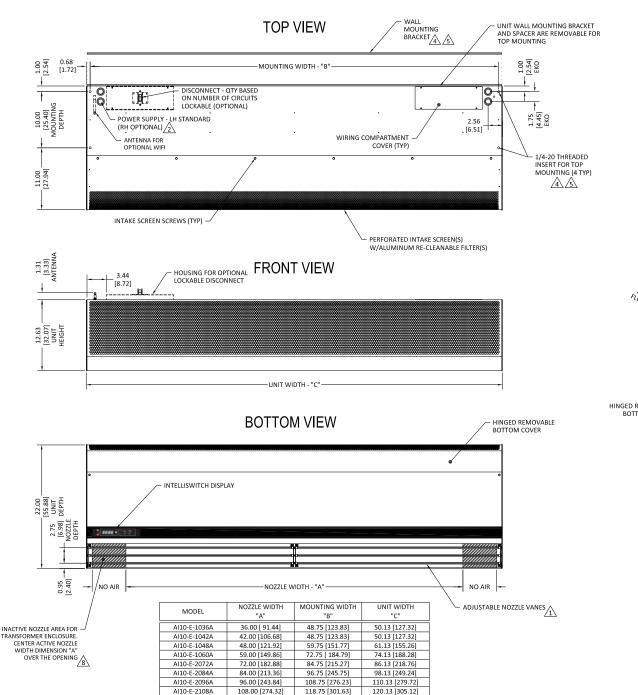
		600/3/60 (voltag XFMR 600/120 1 kVA p	er MTR @ 1.7 each		277/1/60 (volta	·		
		MOTOR AMP DRAW	= 6.6 each @ 120V	0V MOTOR AMP DRAW = 3.6 eac				
MODEL	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		
AI10-E-1036A AI10-E-1042A AI10-E-1048A AI10-E-1060A	1	1.7	15	1	3.6	15		
AI10-E-2072A AI10-E-2084A AI10-E-2096A AI10-E-2108A AI10-E-2120A	1	3.3	15	1	7.2	15		
AI10-E-3132A AI10-E-3144A	1	5.0	15	1	10.8	15		

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## AI10-E AMBIENT [UNHEATED] SYSTEM: 120 - 277V



## Al10-E AMBIENT (UNHEATED) SYSTEM: 600V



134.13 [340.68]

146.13 [371.16]

158.13 [401.64]

132.75 [337.19]

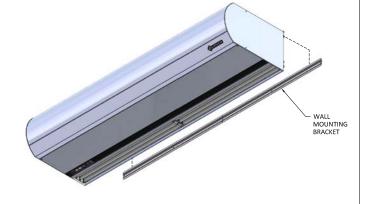
144.75 [367.67]

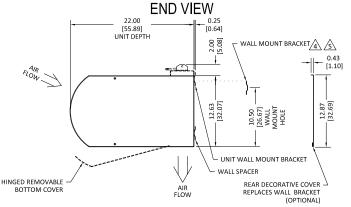
156.75 [398.15]

AI10-E-2120A

AI10-E-3132A AI10-E-3144A 118.00 [299.72]

132.00 [335.28]





#### **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.

3 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 – "A" DESIGNATES AMBIENT (UNHEATED) UNIT.

DIMENSIONS IN INCHES [CENTIMETERS].

NO AIR FLOW, AREA HOUSES TRANSFORMER. CENTER ACTIVE NOZZLE WIDTH DIMENSION "A" OVER THE OPENING.

SHEET 1 OF 1

PROJECT			REV	-
LOCATION				
ARCHITECT				
ENGINEER				
DWG. NO.	AI10-E-AMB-600	TITLE:	BERNER	
DATE	24FEB2023		MODEL AI10-E AIR CURTAIN 600V	
BY	D. Johnson		AMBIENT (UNHEATED) SYSTEM	
REPLACES	-	BERNER INTERNATIONAL CORP.		
BY	-		NEW CASTLE,PA.	