



ARCHITECTURAL ELITE 10

Electric Heated Air Curtain

Data Sheet

Recommended for Mounting Heights to 10' (environmental separation)

STANDARD CONSTRUCTION

- 14 1/2" high x 28 1/4" deep
- 1/2 hp EC motor(s)
- Intelliswitch™ digital controller, includes Berner AIR™ BMS (smart control and BACnet & Modbus)
- Cabinet: Brushed stainless steel, grade 304
- Bottom Panel: Clear satin anodized aluminum
- Wall or Top Mounting
- High efficiency, low noise, articulating Pro-V Nozzle
- Patented single stage venturi electric heater (open element)
- Alternate kW: see sheet EP-232E
- Filter (washable)

Options

- Custom Color or Stainless
- Rear cover for top mounting to conceal fasteners

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.



**2 Year
Limited
Warranty**



indoor use



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 (electric 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)	Air Volume (cfm)	Outlet Vel. Uniformity	Power Rating (kW)	Motor(s) @ hp	Max. Electric Capacity (kW)	Heater Output (MBH)	Air Temp. Rise (°F)	Net Wt. (lbs)
AE10-F-1036E	36.00	3,552	1,968	1,353	80%	0.45	1 @ 1/2	14	47.8	33°	106
AE10-F-1042E	42.00	3,543	1,773	1,422	82%	0.47	1 @ 1/2	14	47.8	31°	118
AE10-F-1048E	48.00	3,919	1,927	1,766	92%	0.63	1 @ 1/2	14	47.8	25°	131
AE10-F-1060E	59.00	4,087	1,594	1,796	86%	0.59	1 @ 1/2	14	47.8	25°	174
AE10-F-2072E	72.00	3,552	1,968	2,706	80%	0.90	2 @ 1/2	28	95.6	33°	212
AE10-F-2078E	78.00	3,552	1,863	2,775	80%	0.92	2 @ 1/2	28	95.6	32°	224
AE10-F-2084E	84.00	3,543	1,773	2,844	82%	0.94	2 @ 1/2	28	95.6	31°	236
AE10-F-2096E	96.00	3,919	1,927	3,532	92%	1.26	2 @ 1/2	28	95.6	25°	262
AE10-F-2108E	108.00	4,087	1,727	3,562	86%	1.22	2 @ 1/2	28	95.6	25°	305
AE10-F-2120E	118.00	4,087	1,594	3,592	86%	1.18	2 @ 1/2	28	95.6	25°	348
AE10-F-3132E	132.00	3,919	1,938	4,885	80%	1.71	3 @ 1/2	42	143.3	27°	368
AE10-F-3144E	144.00	3,919	1,927	5,298	92%	1.89	3 @ 1/2	42	143.3	25°	393

See sheet EP-232E-EC for amp draws/total load requirements.

600/3/60 power supply includes extended cabinet, See drawing AE10-F-ELE-600.

NOTE: Single Point Power Connection – consult factory.

MODEL NUMBER CONFIGURATION

AE10-F-1 036 E B-100-EC-CM -D-R-SA

Series	Version	# of Motors	Opening Width	Heat	Voltage	kW	Motor Type	Berner AIR	Opt. Interconnect	Opt. Display	Material / Finish	
AE10	F	1, 2, 3	036" - 144"	E=Electric Heated	B=208/1/60* J=240/1/60* V=220/1/50* W=277/1/60* K=120/480 L=120/600 S=208/480 M=208/600 U=240/480 N=240/600 X=208/3/60 Y=240/3/60 WZ = 480/3/60** L-XI = 600/3/60 † O = 380/3/50**	10.0 - 28.8 (100 - 288) See sheet EP-232E for alternate kW code	EC Motor	CM=BMS	D=Physical Data Link (daisy chain)	R=Remote Display TB=Tablet	Cabinet S=Stainless (std) A= Anod Alum C=Custom Color	Bottom Panel A=Anod Alum (std) S=Stainless C=Custom Color
for Standard offering, leave options (Opt.) blank												

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 AE10-F-1036E				
Distance from Nozzle (in)	40	80	120	160
Core Velocity (fpm)	1180	895	887	760
Uniformity (%)	83%	84%	92%	97%

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

Berner reserves the right to alter specifications without prior notice.

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111 Progress Ave. / New Castle / PA / 16101 / USA

DS-232E
December, 2024

MODEL	kW (code)	Temp Rise °F	208/1/60 (voltage code B) EC MOTOR AMP DRAW = 4.1 each			240/1/60 (voltage code J) or 220/1/50 (voltage code V) EC MOTOR AMP DRAW = 4.1 each			277/1/60 (voltage code W) EC MOTOR AMP DRAW = 3.6 each		
			# CKTS	AMPS PER CIRCUIT (including motor)	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT (including motor)	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT (including motor)	BREAKER RATING PER CIRCUIT
AE10-F-1036E AE10-F-1042E AE10-F-1048E AE10-F-1060E	14 (140)	30	2	26.6/44.9	35/60	2	23.6/38.9	30/50	2	20.4/33.7	30/45
	12 (120)	26	2	23.3/38.5	30/50	2	20.8/33.3	30/45	1	47.4	60
	10 (100)	21	2	20.1/32.0	30/40	1	45.8	60	1	39.7	50
	8 (080)	18	1	42.6	60	1	37.4	50	1	32.5	45
	6 (060)	13	1	32.9	45	1	29.1	40	1	25.3	35
AE10-F-2072E AE10-F-2078E AE10-F-2084E AE10-F-2096E AE10-F-2108E AE10-F-2120E	28 (280)	30	-	N/A	N/A	-	N/A	N/A	-	N/A	N/A
	24 (240)	26	-	N/A	N/A	-	N/A	N/A	-	N/A	N/A
	20 (200)	21	-	N/A	N/A	-	N/A	N/A	2	43.3/36.1	60/50
	16 (160)	18	2	46.7/38.5	60/50	2	41.5/33.3	60/45	2	36.1/28.9	45/40
	12 (120)	13	2	37.0/28.8	50/40	2	33.2/25.0	45/35	2	28.9/21.7	40/30
AE10-F-3132E AE10-F-3144E	42 (420)	30	-	N/A	N/A	-	N/A	N/A	-	N/A	N/A
	36 (360)	26	-	N/A	N/A	-	N/A	N/A	-	N/A	N/A
	30 (300)	21	-	N/A	N/A	-	N/A	N/A	-	N/A	N/A
	24 (240)	18	-	N/A	N/A	-	N/A	N/A	-	N/A	N/A
	18 (180)	13	-	N/A	N/A	-	N/A	N/A	2	43.3/32.5	60/45



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Electrical Performance Sheet

			208/3/60 (voltage code X) EC MOTOR AMP DRAW = 4.1 each			240/3/60 (voltage code Y) EC MOTOR AMP DRAW = 4.1 each			480/3/60 (voltage code WZ) - 4 Wire System EC MOTOR AMP DRAW = 3.6 each @ 277V			600/3/60 (voltage code L-XI) XFMR 600/120 1 kVA per MTR @ 1.7 each EC MOTOR AMP DRAW = 6.6 each @ 120V		
MODEL	kW (code)	Temp Rise °F	# CKTS	AMPS PER CIRCUIT (including motor)	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT (including motor)	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT (including motor)	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT (including motor)	BREAKER RATING PER CIRCUIT
AE10-F-1036E AE10-F-1042E AE10-F-1048E AE10-F-1060E	14 (140)	30	1	43.0	60	1	37.8	50	1	20.4	30	1	15.2	20
	12 (120)	26	1	37.4	50	1	33.0	45	1	18.0	25	1	13.2	20
	10 (100)	21	1	31.9	40	1	28.2	40	1	15.6	20	1	11.3	15
	8 (080)	18	1	26.3	35	1	23.3	30	1	13.2	20	1	9.4	15
	6 (060)	13	1	20.8	30	1	18.5	25	1	10.8	15	1	7.5	15
AE10-F-2072E AE10-F-2078E AE10-F-2084E AE10-F-2096E AE10-F-2108E AE10-F-2120E	28 (280)	30	2	47.1/38.9	60/50	2	41.9/33.7	60/45	1	40.9	60	1	30.3	40
	24 (240)	26	2	41.5/33.3	60/45	2	37.1/28.9	50/40	1	36.1	45	1	26.5	35
	20 (200)	21	2	36.0/27.8	45/35	2	32.3/24.1	40/35	1	31.3	40	1	22.6	30
	16 (160)	18	2	30.4/22.2	40/30	1	46.7	60	1	26.4	35	1	18.8	25
	12 (120)	13	1	41.5	60	1	37.1	50	1	21.6	30	1	14.9	20
AE10-F-3132E AE10-F-3144E	42 (420)	30	3	51.2/38.9/38.9	60/60/50	3	46.0/33.7/33.7	60/45/45	2	27.6/33.7	35/45	1	45.5	60
	36 (360)	26	3	45.6/33.3/33.3	60/45/45	3	41.2/36.1/36.1	50/40/40	2	25.2/28.9	30/40	1	39.7	50
	30 (300)	21	3	40.1/27.8/27.8	50/35/35	2	36.4/48.1	45/60	1	46.9	60	1	34.0	45
	24 (240)	18	2	34.5/44.4	45/60	2	31.5/38.5	40/50	1	39.7	50	1	28.2	35
	18 (180)	13	2	29.0/33.3	35/45	2	26.7/28.9	35/40	1	32.5	40	1	22.4	30



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Electrical Performance Sheet

			120/1/60 - 480/3/60 (voltage code K) 120V EC MOTOR AMP DRAW = 6.6 each					208/1/60 - 480/3/60 (voltage code S) 208V EC MOTOR AMP DRAW = 4.1 each					240/1/60 - 480/3/60 (voltage code U) 240V EC MOTOR AMP DRAW = 4.1 each				
MODEL	kW (code)	Temp Rise °F	# CKTS	AMPS PER CIRCUIT		BREAKER RATING PER CIRCUIT		# CKTS	AMPS PER CIRCUIT		BREAKER RATING PER CIRCUIT		# CKTS	AMPS PER CIRCUIT		BREAKER RATING PER CIRCUIT	
				120V/1	480V/3	120V/1	480V/3		208V/1	480V/3	208V/1	480V/3		240V/1	480V/3	240V/1	480V/3
AE10-F-1036E AE10-F-1042E AE10-F-1048E AE10-F-1060E	14 (140)	30	2	6.6	16.8	15	25	2	4.1	16.8	15	25	2	4.1	16.8	15	25
	12 (120)	26	2	6.6	14.4	15	20	2	4.1	14.4	15	20	2	4.1	14.4	15	20
	10 (100)	21	2	6.6	12.0	15	15	2	4.1	12.0	15	15	2	4.1	12.0	15	15
	8 (080)	18	2	6.6	9.6	15	15	2	4.1	9.6	15	15	2	4.1	9.6	15	15
	6 (060)	13	2	6.6	7.2	15	15	2	4.1	7.2	15	15	2	4.1	7.2	15	15
AE10-F-2072E AE10-F-2078E AE10-F-2084E AE10-F-2096E AE10-F-2108E AE10-F-2120E	28 (280)	30	2	13.2	33.7	20	45	2	8.2	33.7	15	45	2	8.2	33.7	15	45
	24 (240)	26	2	13.2	28.9	20	40	2	8.2	28.9	15	40	2	8.2	28.9	15	40
	20 (200)	21	2	13.2	24.1	20	35	2	8.2	24.1	15	35	2	8.2	24.1	15	35
	16 (160)	18	2	13.2	19.2	20	25	2	8.2	19.2	15	25	2	8.2	19.2	15	25
	12 (120)	13	2	13.2	14.4	20	20	2	8.2	14.4	15	20	2	8.2	14.4	15	20
AE10-F-3132E AE10-F-3144E	42 (420)	30	3	19.8	33.7/16.8	25	45/25	3	12.3	33.7/16.8	20	45/25	3	12.3	33.7/16.8	20	45/25
	36 (360)	26	22	19.8	43.3	25	60	2	12.3	43.3	20	60	2	12.3	43.3	20	60
	30 (300)	21	2	19.8	36.1	25	50	2	12.3	36.1	20	50	2	12.3	36.1	20	50
	24 (240)	18	2	19.8	28.9	25	40	2	12.3	28.9	20	40	2	12.3	28.9	20	40
	18 (180)	13	2	19.8	21.7	25	30	2	12.3	21.7	20	30	2	12.3	21.7	20	30

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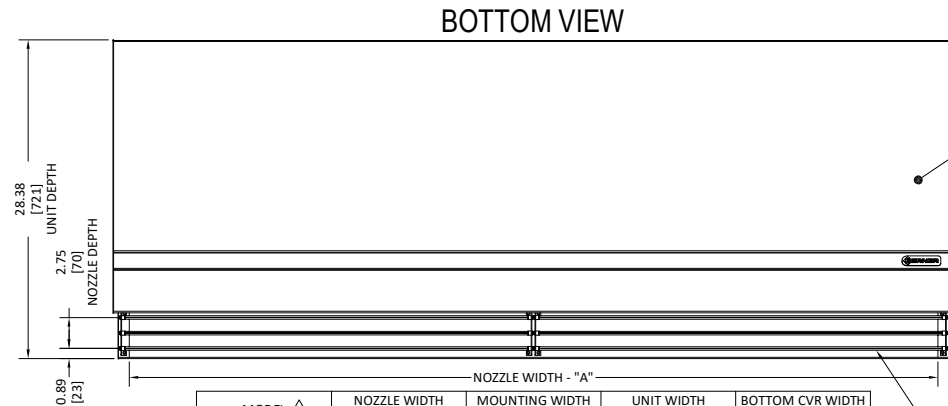
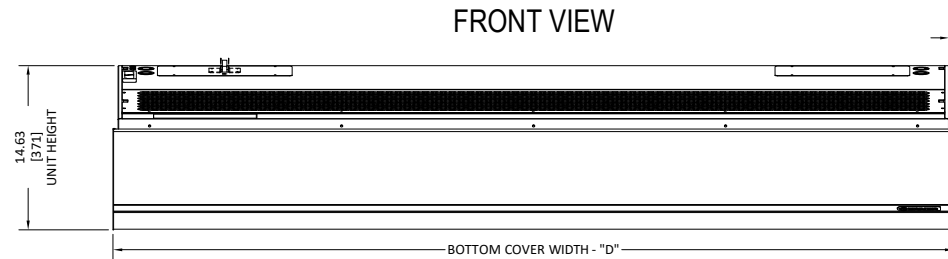
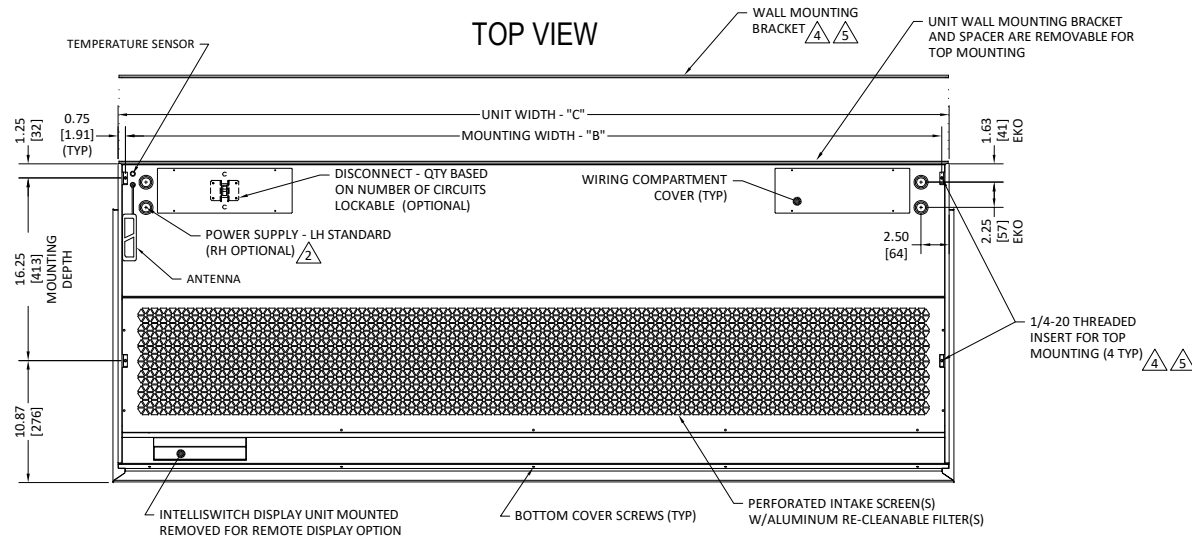
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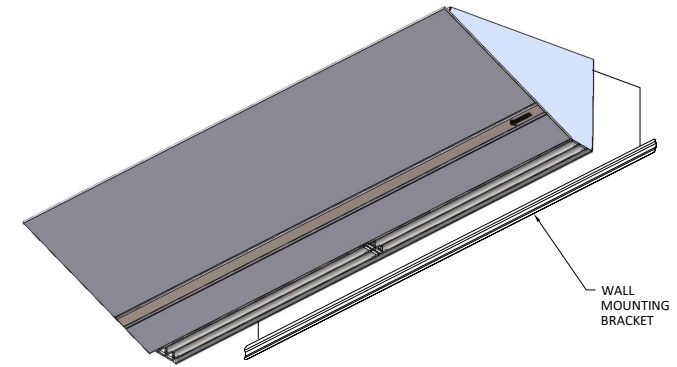
Electrical Performance Sheet

			120/1/60 - 600/3/60 (voltage code L) 120V EC MOTOR AMP DRAW = 6.6 each										208/1/60 - 600/3/60 (voltage code M) 208V EC MOTOR AMP DRAW = 4.1 each										240/1/60 - 600/3/60 (voltage code N) 240V EC MOTOR AMP DRAW = 4.1 each										380/3/50 (voltage code O) EC MOTOR AMP DRAW = 4.1 each		
MODEL	kW (code)	Temp Rise °F	# CKTS	AMPS PER CIRCUIT		BREAKER RATING PER CIRCUIT		# CKTS	AMPS PER CIRCUIT		BREAKER RATING PER CIRCUIT		# CKTS	AMPS PER CIRCUIT		BREAKER RATING PER CIRCUIT		# CKTS	AMPS PER CIRCUIT (including motor)	BREAKER RATING PER CIRCUIT															
				120V/1	600V/3	120V/1	600V/3		208V/1	600V/3	208V/1	600V/3		240V/1	600V/3	240V/1	600V/3																		
AE10-F-1036E AE10-F-1042E AE10-F-1048E AE10-F-1060E	14 (140)	30	2	6.6	13.5	15	20	2	4.1	13.5	15	20	2	4.1	13.5	15	20	1	25.4	35															
	12 (120)	26	2	6.6	11.5	15	15	2	4.1	11.5	15	15	2	4.1	11.5	15	15	1	22.3	30															
	10 (100)	21	2	6.6	9.6	15	15	2	4.1	9.6	15	15	2	4.1	9.6	15	15	1	19.3	25															
	8 (080)	18	2	6.6	7.7	15	15	2	4.1	7.7	15	15	2	4.1	7.7	15	15	1	16.3	25															
	6 (060)	13	2	6.6	5.8	15	15	2	4.1	5.8	15	15	2	4.1	5.8	15	15	1	13.2	20															
AE10-F-2072E AE10-F-2078E AE10-F-2084E AE10-F-2096E AE10-F-2108E AE10-F-2120E	28 (280)	30	2	13.2	26.9	20	35	2	8.2	26.9	15	35	2	8.2	26.9	15	35	2	29.5/21.3	40/30															
	24 (240)	26	2	13.2	23.1	20	30	2	8.2	23.1	15	30	2	8.2	23.1	15	30	1	44.7	60															
	20 (200)	21	2	13.2	19.2	20	25	2	8.2	19.2	15	25	2	8.2	19.2	15	25	1	38.6	50															
	16 (160)	18	2	13.2	15.4	20	20	2	8.2	15.4	15	20	2	8.2	15.4	15	20	1	32.5	40															
	12 (120)	13	2	13.2	11.5	20	15	2	8.2	11.5	15	15	2	8.2	11.5	15	15	1	26.4	35															
AE10-F-3132E AE10-F-3144E	42 (420)	30	2	19.8	40.4	25	60	2	12.3	40.4	20	60	2	12.3	40.4	20	60	2	33.6/42.5	40/60															
	36 (360)	26	2	19.8	34.6	25	45	2	12.3	34.6	20	45	2	12.3	34.6	20	45	2	30.5/36.5	40/50															
	30 (300)	21	2	19.8	28.9	25	40	2	12.3	28.9	20	40	2	12.3	28.9	20	40	2	27.5/30.4	35/40															
	24 (240)	18	2	19.8	23.1	25	30	2	12.3	23.1	20	30	2	12.3	23.1	20	30	1	48.8	60															
	18 (180)	13	2	19.8	17.3	25	25	2	12.3	17.3	20	25	2	12.3	17.3	20	25	1	39.6	50															

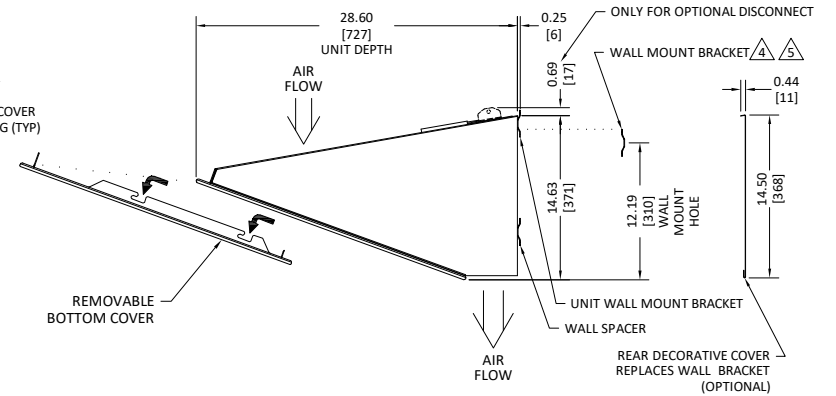
AE10-F ELEC HEATED SYSTEM: 208 - 480V AND DUAL VOLTAGES



MODEL	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	UNIT WIDTH "C"	BOTTOM CVR WIDTH "D"
AE10-F-1036E*	36.00 [914]	36.50 [927]	38.00 [965]	38.88 [987]
AE10-F-1042E*	42.00 [1067]	42.50 [1080]	44.00 [1118]	44.88 [1140]
AE10-F-1048E*	48.00 [1219]	48.50 [1232]	50.00 [1270]	50.88 [1292]
AE10-F-1060E*	59.00 [1499]	59.50 [1511]	61.00 [1549]	61.88 [1572]
AE10-F-2072E*	72.00 [1829]	72.50 [1842]	74.00 [1880]	74.88 [1902]
AE10-F-2078E*	78.00 [1981]	78.50 [1994]	80.00 [2032]	80.88 [2054]
AE10-F-2084E*	84.00 [2134]	84.50 [2146]	86.00 [2184]	86.88 [2207]
AE10-F-2096E*	96.00 [2438]	96.50 [2451]	98.00 [2489]	98.88 [2511]
AE10-F-2108E*	108.00 [2743]	108.50 [2756]	110.00 [2794]	110.88 [2816]
AE10-F-2120E*	118.00 [2997]	118.50 [3010]	120.00 [3048]	120.88 [3070]
AE10-F-3132E*	132.00 [3353]	132.50 [3365]	134.00 [3404]	134.88 [3426]
AE10-F-3144E*	144.00 [3658]	144.50 [3670]	146.00 [3708]	146.88 [3731]



END VIEW



NOTES:

- 1 AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT OBSTRUCTED WHEN DEFLECTED 20° TO EITHER SIDE OF C.
- 2 ELECTRICAL CONNECTIONS TO BE FLEXIBLE.
- 3 FIELD VERIFY DIMENSIONS.
- 4 ANCHORS TO SUPPORTING STRUCTURE BY OTHERS.
- 5 ADEQUACY OF SUPPORTING STRUCTURE IS TO BE VERIFIED BY A PROFESSIONAL STRUCTURAL ENGINEER.
- 6 THE 12th CHARACTER IN THE MODEL NUMBER - "E" DESIGNATES ELECTRIC HEATED UNIT.
- 7 DIMENSIONS IN INCHES [MILLIMETERS].

*VOLTAGE CODES

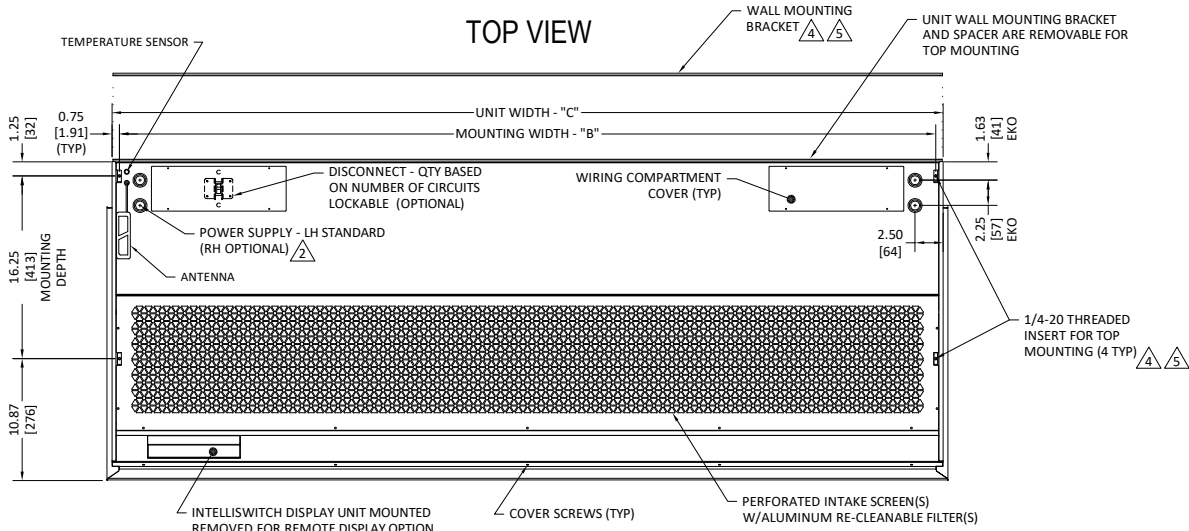
B = 208/1/60
 J = 240/1/60
 V = 220/1/50
 K = 120/480
 L = 120/600
 S = 208/480
 M = 208/600
 U = 240/480
 N = 240/600
 X = 208/3/60
 Y = 240/3/60
 O = 380/3/50
 W = 277/1/60
 WZ = 480/3/60

SHEET 1 OF 1

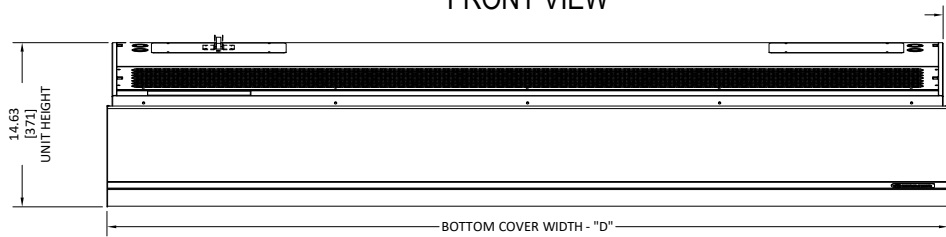
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LOCATION			
ARCHITECT			
ENGINEER			
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BY	D. Johnson		
REPLACES	-		
BY	-		BERNER INTERNATIONAL CORP. NEW CASTLE, PA.

AE10-F ELECTRIC HEATED SYSTEM: 600V

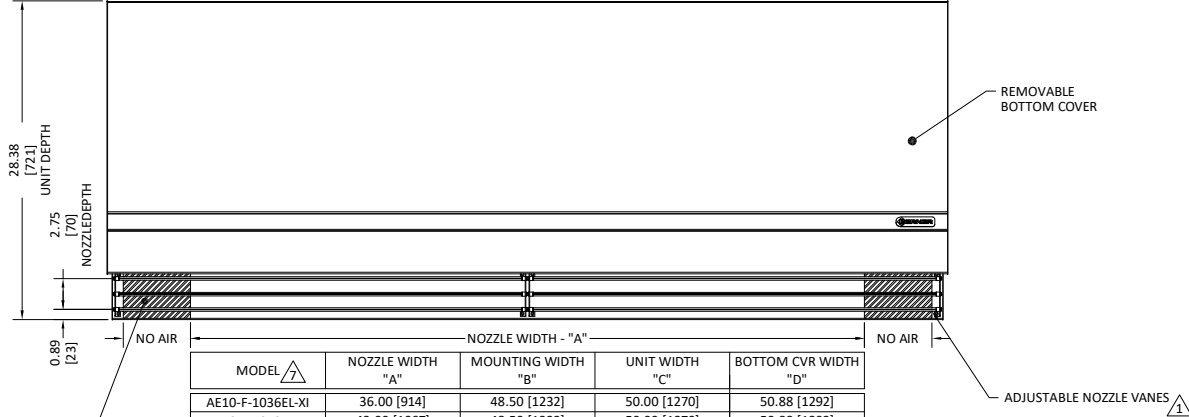
TOP VIEW



FRONT VIEW



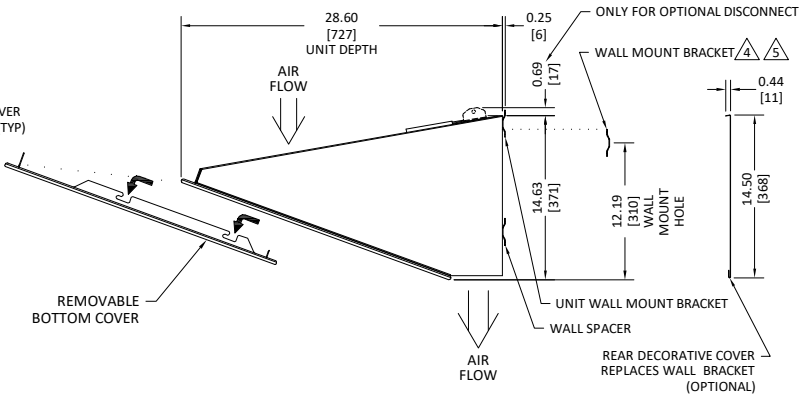
BOTTOM VIEW



INACTIVE NOZZLE AREA FOR TRANSFORMER ENCLOSURE CENTER ACTIVE NOZZLE WIDTH DIMENSION "A" OVER THE OPENING

MODEL	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	UNIT WIDTH "C"	BOTTOM CVR WIDTH "D"
AE10-F-1036EL-XI	36.00 [914]	48.50 [1232]	50.00 [1270]	50.88 [1292]
AE10-F-1042EL-XI	42.00 [1067]	48.50 [1232]	50.00 [1270]	50.88 [1292]
AE10-F-1048EL-XI	48.00 [1219]	59.50 [1511]	61.00 [1549]	61.88 [1572]
AE10-F-1060EL-XI	59.00 [1499]	72.50 [1842]	74.00 [1880]	74.88 [1902]
AE10-F-2072EL-XI	72.00 [1829]	84.50 [2146]	86.00 [2184]	86.88 [2207]
AE10-F-2078EL-XI	78.00 [1981]	84.50 [2146]	86.00 [2184]	86.88 [2207]
AE10-F-2084EL-XI	84.00 [2134]	96.50 [2451]	98.00 [2489]	98.88 [2511]
AE10-F-2096EL-XI	96.00 [2438]	108.50 [2756]	110.00 [2794]	110.88 [2816]
AE10-F-2108EL-XI	108.00 [2743]	118.50 [3010]	120.00 [3048]	120.88 [3070]
AE10-F-2120EL-XI	118.00 [2997]	132.50 [3365]	134.00 [3404]	134.88 [3426]
AE10-F-3132EL-XI	132.00 [3353]	144.50 [3670]	146.00 [3708]	146.88 [3731]
AE10-F-3144EL-XI	144.00 [3658]	156.50 [3975]	158.00 [4013]	158.88 [4035]

END VIEW



NOTES:

- AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT OBSTRUCTED WHEN DEFLECTED 20° TO EITHER SIDE OF ϕ .
- 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 12th CHARACTER IN THE MODEL NUMBER - "E" DESIGNATES ELECTRIC HEATED UNIT.
- DIMENSIONS IN INCHES [MILLIMETERS].
- NO AIR FLOW AREA HOUSES TRANSFORMER. CENTER ACTIVE NOZZLE WIDTH DIMENSION "A" OVER THE OPENING.

SHEET 1 OF 1

PROJECT		REV	0
LOCATION			
ARCHITECT			
ENGINEER			
DWG. NO.	AE10-F-ELE-600	TITLE:	BERNER
DATE	12NOV2024		MODEL AE10-F AIR CURTAIN 600V ELECTRIC HEATED SYSTEM
BY	D. Johnson		
REPLACES	-		
BY	-		BERNER INTERNATIONAL CORP. NEW CASTLE, PA.