



# ARCHITECTURAL CONTOUR 8

## Ambient (Unheated) Air Curtain

### Data Sheet

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

**Vestibule Exception for the ASHRAE 90.1-2019, IECC 2018, and ASHRAE 189.1 Energy Codes, require a velocity projection tested in accordance with AMCA 220 of not less than 6.6 feet per second (400 fpm or 2.0 m/s) at 6.0 in (15 cm) above the floor.**

#### VELOCITY PROJECTION: Model AC08-F-1036A

|                           |     |     |     |
|---------------------------|-----|-----|-----|
| Distance from Nozzle (in) | 40  | 80  | 120 |
| Core Velocity (fpm)       | 874 | 766 | 576 |
| Uniformity (%)            | 90% | 88% | 87% |



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



indoor use



| 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) |
|--------------|-------------------|--------------------------|------------------------|------------------|------------------------|-------------------|---------------|---------------|
| AC08-F-1036A | 36.00             | 2,308                    | 1,758                  | 989              | 85%                    | 0.21              | 1 @ 1/5       | 43            |
| AC08-F-1042A | 42.00             | 2,425                    | 1,778                  | 1,167            | 83%                    | 0.24              | 1 @ 1/5       | 48            |
| AC08-F-1048A | 48.00             | 2,417                    | 1,827                  | 1,370            | 80%                    | 0.26              | 1 @ 1/5       | 53            |
| AC08-F-1060A | 59.00             | 2,276                    | 1,827                  | 1,684            | 81%                    | 0.33              | 1 @ 1/5       | 64            |
| AC08-F-1072A | 72.00             | 2,185                    | 1,648                  | 1,854            | 84%                    | 0.35              | 1 @ 1/5       | 74            |
| AC08-F-2078A | 78.00             | 2,425                    | 1,769                  | 2,156            | 83%                    | 0.44              | 2 @ 1/5       | 86            |
| AC08-F-2084A | 84.00             | 2,425                    | 1,778                  | 2,334            | 83%                    | 0.47              | 2 @ 1/5       | 96            |
| AC08-F-2096A | 96.00             | 2,417                    | 1,827                  | 2,740            | 80%                    | 0.53              | 2 @ 1/5       | 106           |
| AC08-F-2108A | 108.00            | 2,417                    | 1,810                  | 3,054            | 80%                    | 0.60              | 2 @ 1/5       | 117           |
| AC08-F-2120A | 118.00            | 2,276                    | 1,827                  | 3,368            | 81%                    | 0.67              | 2 @ 1/5       | 128           |

See sheets EP-260E-AC & EP-260E-EC for amp draws/total load requirements.

600/3/60 power supply includes transformer housing, See drawing AC08-F-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

**AC08-F-1 036 A A-AC-CB-D-R-SS**

| Series | Version | # of Motors | Opening Width | Heat      | Voltage                                                                                                                         | Motor Type             | Berner AIR                       | Opt. Data Link                                          | Opt. Display                                  | Opt. Cabinet Finish                   |
|--------|---------|-------------|---------------|-----------|---------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------|---------------------------------------------------------|-----------------------------------------------|---------------------------------------|
| AC08   | F       | 1, 2        | 036" - 120"   | A=Ambient | <b>AC &amp; EC motors</b><br>A = 120/1/60*<br>B = 208/1/60<br>J = 240/1/60<br>V = 230/1/50<br>A-XI = 600/3/60 †<br>W = 277/1/60 | AC (Std.)<br>EC (Opt.) | CB=BASIC (Std.)<br>CM=BMS (Opt.) | Opt. Data Link<br>D=Physical Interconnect (daisy chain) | Opt. Display<br>R=Remote Display<br>TB=Tablet | SS=Stainless Steel<br>CC=Custom Color |

### STANDARD CONSTRUCTION

- 8 1/4" high x 20" deep
- 1/5 hp AC motor(s) - ten speeds
- Touchscreen interface with Intelliswitch™ digital controller, includes Berner AIR® BASIC (smart control)
- Clear satin anodized aluminum exterior
- Wall or Top Mounting
- High efficiency, low noise, articulating, three vane, Pro-V Nozzle
- Filter (washable)

### OPTIONS

- 1/5 hp EC motor(s) - ten speeds
- Berner AIR® BMS (smart control with BACnet and Modbus capabilities)
- Custom Color or Stainless
- Rear cover for top mounting to conceal fasteners

for Standard offering, leave options (Opt.) blank

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

1 motor: Min./Max. Speed: 49/55 dBA

2 motors: Min./Max. Speed: 52/58 dBA

Sound data is not AMCA certified.

Berner reserves the right to alter specifications without prior notice.

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

DS-260E  
July, 2025



# ARCHITECTURAL CONTOUR 8 - AC MOTORS

Ambient (Unheated) Air Curtain  
Electrical Performance Sheet

| 120/1/60 (voltage code A)<br>AC MOTOR AMP DRAW = 3.4 each                    |           |                  |                               | 208/1/60 (voltage code B)<br>AC MOTOR AMP DRAW = 1.7 each |                  |                               | 240/1/60 (voltage code J) or<br>230/1/50 (voltage code V)<br>AC MOTOR AMP DRAW = 1.7 each |                  |                               |
|------------------------------------------------------------------------------|-----------|------------------|-------------------------------|-----------------------------------------------------------|------------------|-------------------------------|-------------------------------------------------------------------------------------------|------------------|-------------------------------|
| MODEL                                                                        | #<br>CKTS | AMPS PER CIRCUIT | BREAKER RATING<br>PER CIRCUIT | #<br>CKTS                                                 | AMPS PER CIRCUIT | BREAKER RATING<br>PER CIRCUIT | #<br>CKTS                                                                                 | AMPS PER CIRCUIT | BREAKER RATING<br>PER CIRCUIT |
| AC08-F-1036A<br>AC08-F-1042A<br>AC08-F-1048A<br>AC08-F-1060A<br>AC08-F-1072A | 1         | 3.4              | 15                            | 1                                                         | 1.7              | 15                            | 1                                                                                         | 1.7              | 15                            |
| AC08-F-2078A<br>AC08-F-2084A<br>AC08-F-2096A<br>AC08-F-2108A<br>AC08-F-2120A | 1         | 6.8              | 15                            | 1                                                         | 3.4              | 15                            | 1                                                                                         | 3.4              | 15                            |

| 277/1/60 (voltage code W)<br>AC MOTOR AMP DRAW = 2.3 each                    |           |                  |                               | 600/3/60 (voltage code A-XI)<br>XFMR 600/120 0.5kVA per MTR @ 0.8 each<br>AC MOTOR AMP DRAW = 3.4 each @ 120V |                  |                               |                               |
|------------------------------------------------------------------------------|-----------|------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------|------------------|-------------------------------|-------------------------------|
| MODEL                                                                        | #<br>CKTS | AMPS PER CIRCUIT | BREAKER RATING<br>PER CIRCUIT | #<br>CKTS                                                                                                     | AMPS PER CIRCUIT | BREAKER RATING<br>PER CIRCUIT | BREAKER RATING<br>PER CIRCUIT |
| AC08-F-1036A<br>AC08-F-1042A<br>AC08-F-1048A<br>AC08-F-1060A<br>AC08-F-1072A | 1         | 2.3              | 15                            | 1                                                                                                             | 0.8              | 15                            |                               |
| AC08-F-2078A<br>AC08-F-2084A<br>AC08-F-2096A<br>AC08-F-2108A<br>AC08-F-2120A | 1         | 4.6              | 15                            | 1                                                                                                             | 1.6              | 15                            |                               |

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EP-260E-AC  
July, 2025

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# ARCHITECTURAL CONTOUR 8 - EC MOTORS

**Ambient (Unheated) Air Curtain  
Electrical Performance Sheet**

| 120/1/60 (voltage code A)<br>EC MOTOR AMP DRAW = 4.4 each                    |           |                  |                               | 208/1/60 (voltage code B)<br>EC MOTOR AMP DRAW = 2.5 each |                  |                               | 240/1/60 (voltage code J) or<br>230/1/50 (voltage code V)<br>EC MOTOR AMP DRAW = 2.5 each |                  |                               |
|------------------------------------------------------------------------------|-----------|------------------|-------------------------------|-----------------------------------------------------------|------------------|-------------------------------|-------------------------------------------------------------------------------------------|------------------|-------------------------------|
| MODEL                                                                        | #<br>CKTS | AMPS PER CIRCUIT | BREAKER RATING<br>PER CIRCUIT | #<br>CKTS                                                 | AMPS PER CIRCUIT | BREAKER RATING<br>PER CIRCUIT | #<br>CKTS                                                                                 | AMPS PER CIRCUIT | BREAKER RATING<br>PER CIRCUIT |
| AC08-F-1036A<br>AC08-F-1042A<br>AC08-F-1048A<br>AC08-F-1060A<br>AC08-F-1072A | 1         | 4.4              | 15                            | 1                                                         | 2.5              | 15                            | 1                                                                                         | 2.5              | 15                            |
| AC08-F-2078A<br>AC08-F-2084A<br>AC08-F-2096A<br>AC08-F-2108A<br>AC08-F-2120A | 1         | 8.8              | 15                            | 1                                                         | 5.0              | 15                            | 1                                                                                         | 5.0              | 15                            |

| 277/1/60 (voltage code W)<br>EC MOTOR AMP DRAW = 2.2 each                    |           |                  |                               | 600/3/60 (voltage code A-XI)<br>XFMR 600/120 0.5kVA per MTR @ 0.8 each<br>EC MOTOR AMP DRAW = 4.4 each @ 120V |                  |                               |
|------------------------------------------------------------------------------|-----------|------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------|------------------|-------------------------------|
| MODEL                                                                        | #<br>CKTS | AMPS PER CIRCUIT | BREAKER RATING<br>PER CIRCUIT | #<br>CKTS                                                                                                     | AMPS PER CIRCUIT | BREAKER RATING<br>PER CIRCUIT |
| AC08-F-1036A<br>AC08-F-1042A<br>AC08-F-1048A<br>AC08-F-1060A<br>AC08-F-1072A | 1         | 2.2              | 15                            | 1                                                                                                             | 0.8              | 15                            |
| AC08-F-2078A<br>AC08-F-2084A<br>AC08-F-2096A<br>AC08-F-2108A<br>AC08-F-2120A | 1         | 4.4              | 15                            | 1                                                                                                             | 1.7              | 15                            |

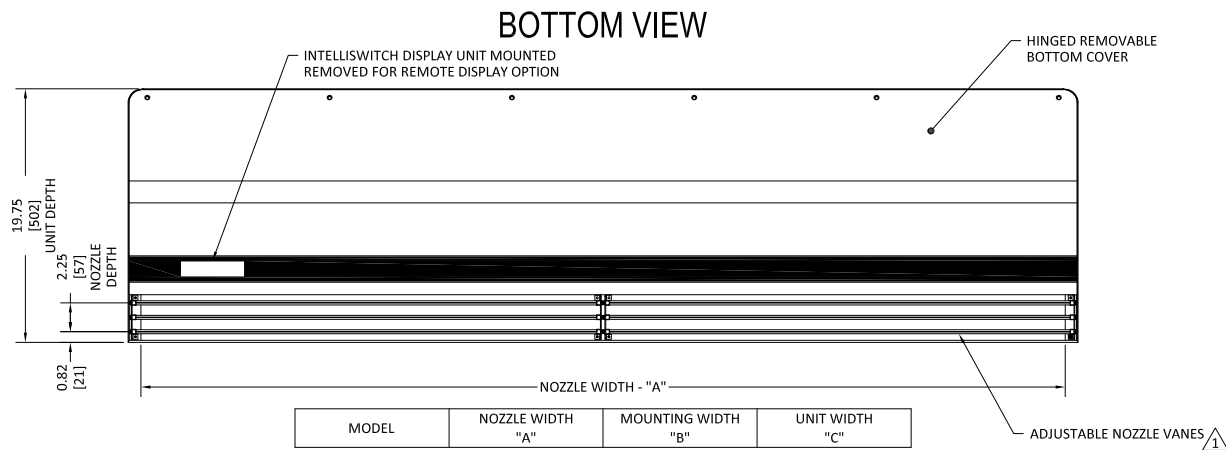
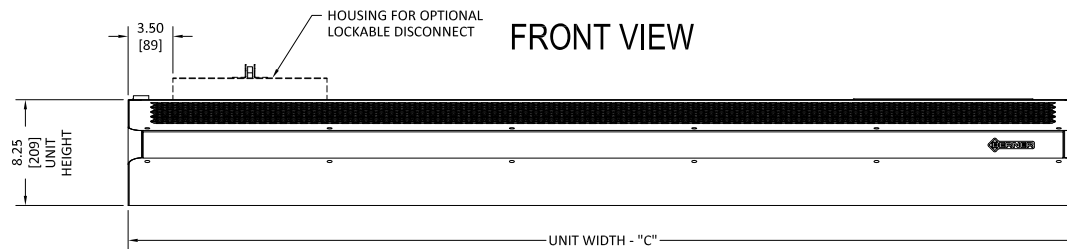
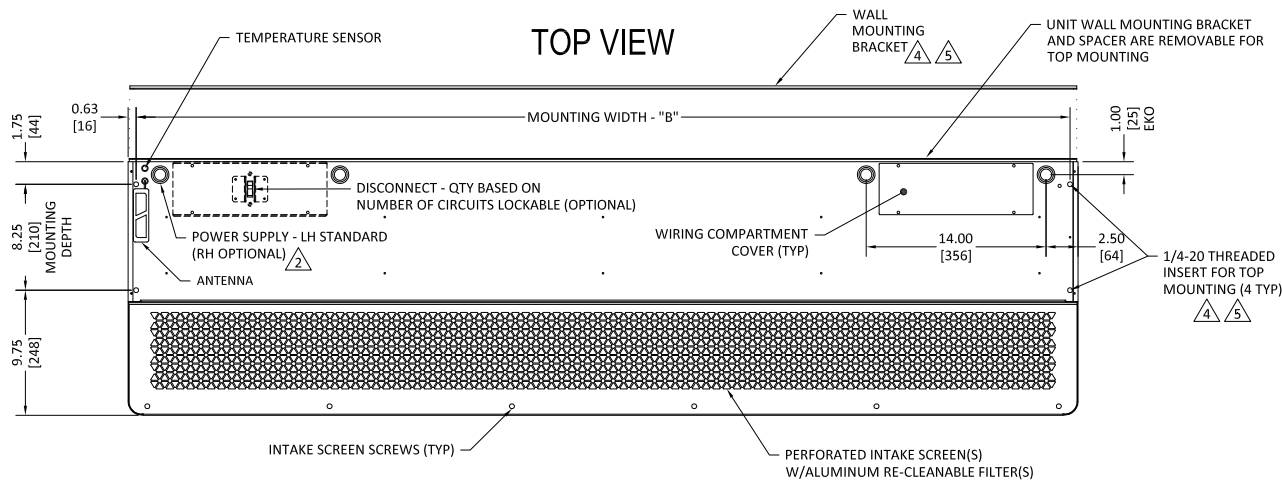
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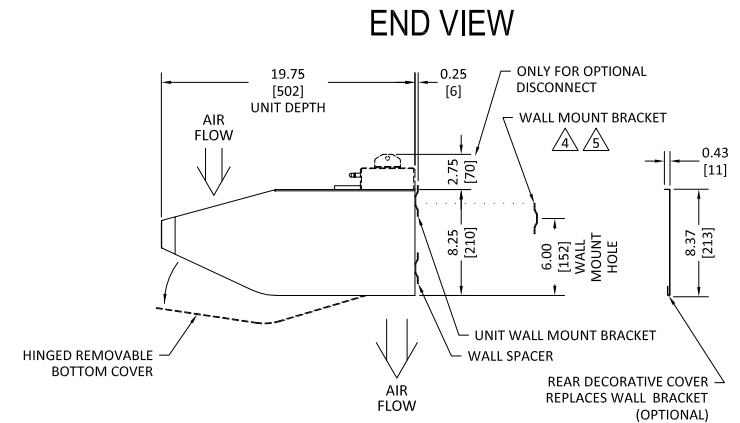
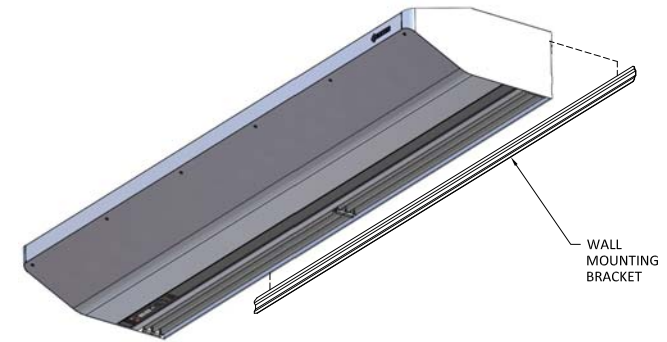
EP-260E-EC  
July, 2025

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# AC08-F AMBIENT (UNHEATED) SYSTEM: 120 - 277V



| MODEL        | NOZZLE WIDTH<br>"A" | MOUNTING WIDTH<br>"B" | UNIT WIDTH<br>"C" |
|--------------|---------------------|-----------------------|-------------------|
| AC08-F-1036A | 36.00 [914]         | 36.75 [934]           | 38.00 [965]       |
| AC08-F-1042A | 42.00 [1067]        | 42.75 [1086]          | 44.00 [1118]      |
| AC08-F-1048A | 48.00 [1219]        | 48.75 [1238]          | 50.00 [1270]      |
| AC08-F-1060A | 59.00 [1499]        | 59.75 [1518]          | 61.00 [1549]      |
| AC08-F-1072A | 72.00 [1829]        | 72.75 [1848]          | 74.00 [1880]      |
| AC08-F-2078A | 78.00 [1981]        | 78.75 [2000]          | 80.00 [2032]      |
| AC08-F-2084A | 84.00 [2134]        | 84.75 [2153]          | 86.00 [2184]      |
| AC08-F-2096A | 96.00 [2438]        | 96.75 [2458]          | 98.00 [2489]      |
| AC08-F-2108A | 108.00 [2743]       | 108.75 [2762]         | 110.00 [2794]     |
| AC08-F-2120A | 118.00 [2997]       | 118.75 [3016]         | 120.00 [3048]     |



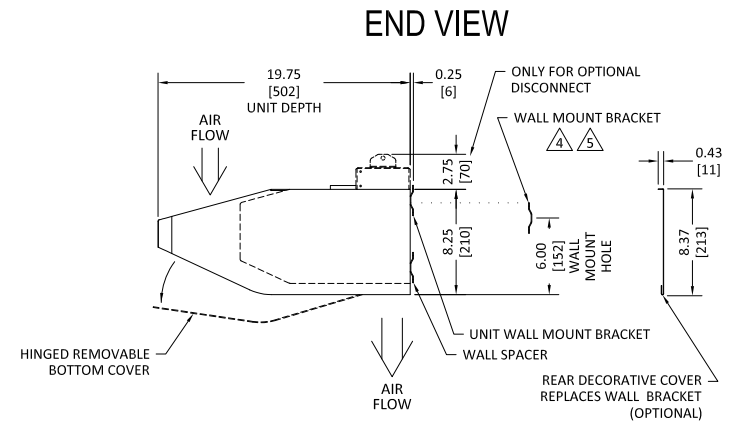
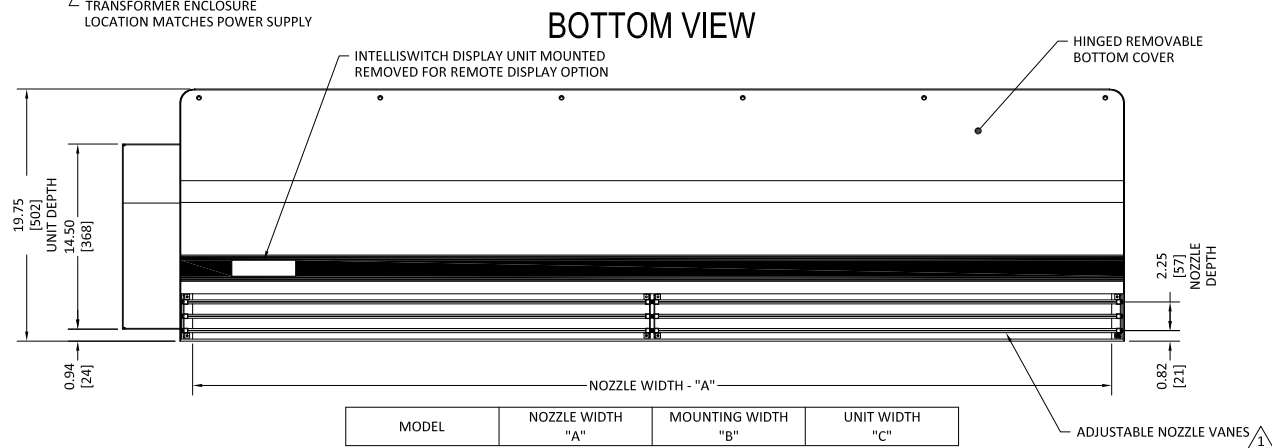
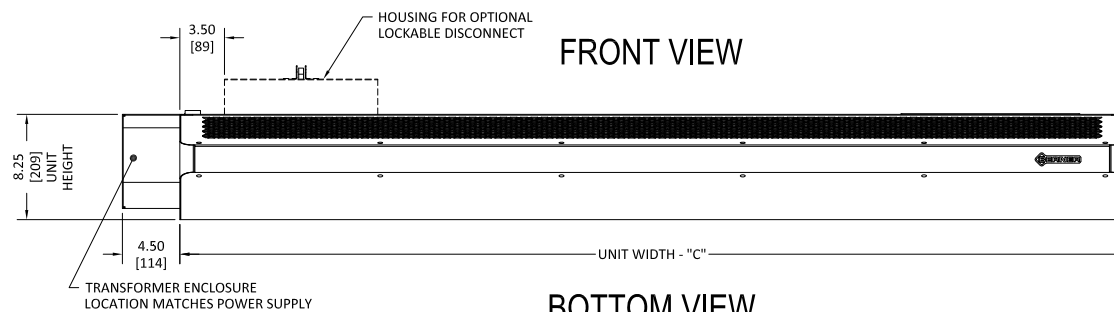
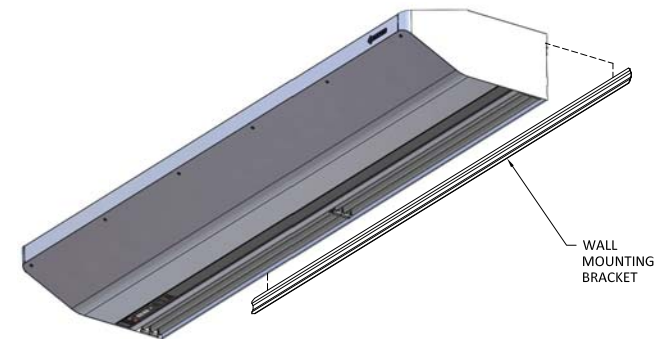
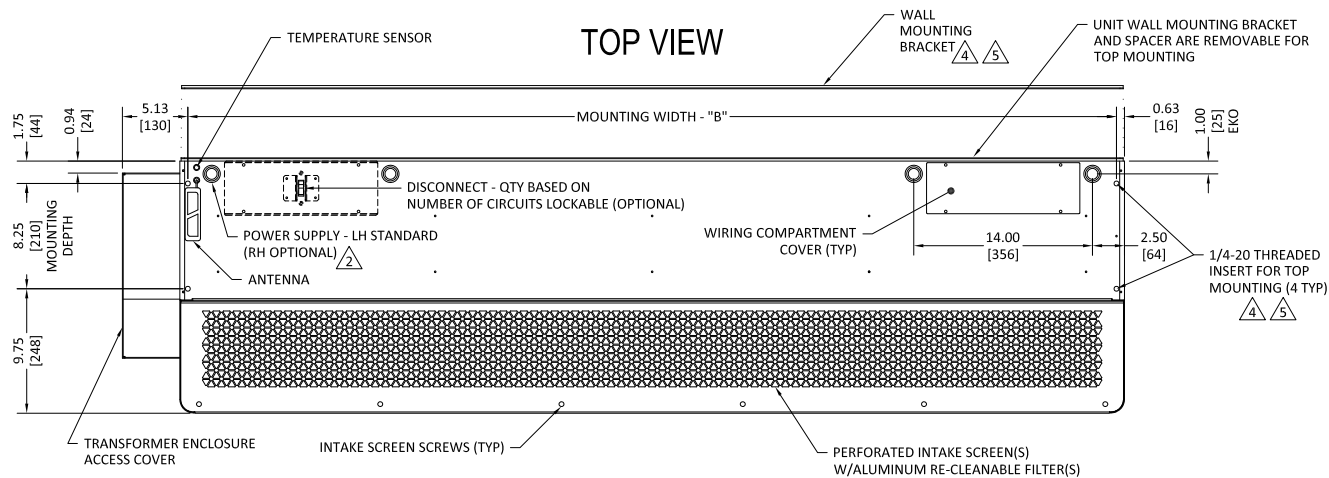
## NOTES:

- AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT OBSTRUCTED WHEN DEFLECTED 20° TO EITHER SIDE OF C.
- 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 - "A" DESIGNATES AMBIENT (UNHEATED) UNIT.
- DIMENSIONS IN INCHES [MILLIMETERS].

SHEET 1 OF 1

|           |                |        |                                                                  |
|-----------|----------------|--------|------------------------------------------------------------------|
| PROJECT   |                | REV    | 1                                                                |
| LOCATION  |                |        |                                                                  |
| ARCHITECT |                |        |                                                                  |
| ENGINEER  |                |        |                                                                  |
| DWG. NO.  | AC08-F-AMB-120 | TITLE: | <b>BERNER</b>                                                    |
| DATE      | 13NOV2025      |        | MODEL AC08-F AIR CURTAIN 120 - 277V<br>AMBIENT (UNHEATED) SYSTEM |
| BY        | S. Beil        |        |                                                                  |
| REPLACES  | 21JAN2025      |        |                                                                  |
| BY        | S. Beil        |        | BERNER INTERNATIONAL CORP.<br>NEW CASTLE, PA.                    |

# AC08-F AMBIENT [UNHEATED] SYSTEM: 600V



## NOTES:

- 1 AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT OBSTRUCTED WHEN DEFLECTED 20° TO EITHER SIDE OF  $\bar{C}$ .
- 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 LAST CHARACTER IN THE MODEL NUMBER – "A" DESIGNATES AMBIENT (UNHEATED) UNIT.
- 7 DIMENSIONS IN INCHES [MILLIMETERS].

SHEET 1 OF 1

| MODEL        | NOZZLE WIDTH<br>"A" | MOUNTING WIDTH<br>"B" | UNIT WIDTH<br>"C" |
|--------------|---------------------|-----------------------|-------------------|
| AC08-F-1036A | 36.00 [914]         | 36.75 [934]           | 38.00 [965]       |
| AC08-F-1042A | 42.00 [1067]        | 42.75 [1086]          | 44.00 [1118]      |
| AC08-F-1048A | 48.00 [1219]        | 48.75 [1238]          | 50.00 [1270]      |
| AC08-F-1060A | 59.00 [1499]        | 59.75 [1518]          | 61.00 [1549]      |
| AC08-F-1072A | 72.00 [1829]        | 72.75 [1848]          | 74.00 [1880]      |
| AC08-F-2078A | 78.00 [1981]        | 78.75 [2000]          | 80.00 [2032]      |
| AC08-F-2084A | 84.00 [2134]        | 84.75 [2153]          | 86.00 [2184]      |
| AC08-F-2096A | 96.00 [2438]        | 96.75 [2458]          | 98.00 [2489]      |
| AC08-F-2108A | 108.00 [2743]       | 108.75 [2762]         | 110.00 [2794]     |
| AC08-F-2120A | 118.00 [2997]       | 118.75 [3016]         | 120.00 [3048]     |

|           |                |        |                                                            |
|-----------|----------------|--------|------------------------------------------------------------|
| PROJECT   |                | REV    | 1                                                          |
| LOCATION  |                |        |                                                            |
| ARCHITECT |                |        |                                                            |
| ENGINEER  |                |        |                                                            |
| DWG. NO.  | AC08-F-AMB-600 | TITLE: | <b>BERNER</b>                                              |
| DATE      | 13NOV2025      |        | MODEL AC08-F AIR CURTAIN 600V<br>AMBIENT (UNHEATED) SYSTEM |
| BY        | S. Beil        |        |                                                            |
| REPLACES  | 21JAN2025      |        |                                                            |
| BY        | S. Beil        |        | BERNER INTERNATIONAL CORP.<br>NEW CASTLE, PA.              |