

For Door Heights To 12' (environmental separation)

STANDARD CONSTRUCTION

- 15" high x 26" deep
- ½ hp three speed motor(s)
- Factory installed Intelliswitch digital controller
- White aluminum exterior panel
(Optional: Custom Color or Stainless)
- Top Mounting only
- High efficiency, low noise Pro-V Nozzle
- Filter (washable)

- Patented venturi open helical element with point suspension
 - Thermal overload protection
 - Galvanized steel frame
- Alternate kW: see sheet EP-242

2 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 | Max Electric Capacity (kW) | Heater Output (MBH) | Air Temp. Rise (°F) | Net Wt. (lbs) |
|-------------|-------------------|--------------------------|------------------------|------------------|------------------------|-------------------|---------------|----------------------------|---------------------|---------------------|---------------|
| ARC12-1036E | 36.00 | 5,444 | 1,573 | 1,376 | 92% | 0.47 | 1 @ 1/2 | 14.0 | 47.8 | 32° | 105 |
| ARC12-1042E | 42.00 | 4,828 | 1,549 | 1,581 | 85% | 0.49 | 1 @ 1/2 | 14.0 | 47.8 | 28° | 112 |
| ARC12-1048E | 48.00 | 4,839 | 1,377 | 1,607 | 87% | 0.51 | 1 @ 1/2 | 14.0 | 47.8 | 27° | 118 |
| ARC12-1060E | 66.00 | 4,828 | 1,027 | 1,647 | 83% | 0.52 | 1 @ 1/2 | 14.0 | 47.8 | 27° | 138 |
| ARC12-2060E | 66.00 | 5,202 | 1,674 | 2,686 | 91% | 0.92 | 2 @ 1/2 | 28.0 | 95.6 | 33° | 179 |
| ARC12-2072E | 72.00 | 5,444 | 1,573 | 2,752 | 92% | 0.94 | 2 @ 1/2 | 28.0 | 95.6 | 32° | 190 |
| ARC12-2084E | 84.00 | 4,828 | 1,549 | 3,162 | 85% | 0.98 | 2 @ 1/2 | 28.0 | 95.6 | 28° | 202 |
| ARC12-2096E | 99.00 | 4,839 | 1,336 | 3,214 | 87% | 1.02 | 2 @ 1/2 | 28.0 | 95.6 | 27° | 213 |
| ARC12-3096E | 99.00 | 5,202 | 1,688 | 4,062 | 91% | 1.39 | 3 @ 1/2 | 42.0 | 143.3 | 33° | 257 |
| ARC12-2108E | 108.00 | 4,828 | 1,240 | 3,254 | 83% | 1.03 | 2 @ 1/2 | 28.0 | 95.6 | 27° | 231 |
| ARC12-3108E | 108.00 | 5,444 | 1,573 | 4,128 | 92% | 1.41 | 3 @ 1/2 | 42.0 | 143.3 | 32° | 285 |
| ARC12-2120E | 117.00 | 4,828 | 1,158 | 3,294 | 83% | 1.04 | 2 @ 1/2 | 28.0 | 95.6 | 27° | 249 |
| ARC12-3120E | 117.00 | 4,828 | 1,596 | 4,538 | 85% | 1.45 | 3 @ 1/2 | 42.0 | 143.3 | 29° | 297 |
| ARC12-3132E | 132.00 | 4,828 | 1,486 | 4,769 | 85% | 1.49 | 3 @ 1/2 | 42.0 | 143.3 | 28° | 309 |
| ARC12-3144E | 144.00 | 4,839 | 1,377 | 4,821 | 87% | 1.53 | 3 @ 1/2 | 42.0 | 143.3 | 27° | 320 |
| ARC12-4144E | 144.00 | 5,444 | 1,573 | 5,504 | 92% | 1.88 | 4 @ 1/2 | 56.0 | 191.1 | 32° | 380 |

NOTE:

1. Operation at 50 Hz will generate approximately a 17% reduction in air performance.
2. Performance data based on AMCA licensed data from unheated units.
Berner does not recommend ARC12-2120E, exists only as an equivalent to competitors' models.
See sheet EP-242 for amp draws/total load requirements and alternate kW.

MODEL NUMBER CONFIGURATION

ARC12-1 036 E B-R-SS

| Series | # of Motors | Opening Width | Heat | Voltage | Opt. Display | Opt. Cabinet Finish |
|--------|-------------|---------------|-------------------|---|--|---------------------------------------|
| ARC12 | 1, 2, 3, 4 | 036" - 144" | E=Electric Heated | *B=208/1/60 *J=240/1/60 *V=220/1/50 X=208/3/60 Y=240/3/60 Z=480/3/60 Q=600/3/60 O=380/3/50 | Remote Display <i>Intelliswitch</i> | SS=Stainless Steel CC=Custom Color |

*Max 16kW
See sheet EP-242 for available lengths and voltages

Sound level measured 10' (3m) from the unit in free field:
 1 motor: Low/Medium/High Speed: 60/61/62 dBA
 2 motors: Low/Medium/High Speed: 63/64/65 dBA
 3 motors: Low/Medium/High Speed: 65/66/67 dBA
 4 motors: Low/Medium/High Speed: 66/67/68 dBA

Berner reserves the right to alter specifications without prior notice.



ARCHITECTURAL RECESSED 12

Electric Heated Air Curtain

Electrical Performance Sheet

| MODEL | kW option | Temp Rise °F | 208/1/60 (voltage code B) or 220/1/50 (voltage code V) MOTOR AMP DRAW = 4.3 each | | | 240/1/60 (voltage code J) MOTOR AMP DRAW = 4.3 each | | | 208/3/60 (voltage code X) MOTOR AMP DRAW = 4.3 each | | | 240/3/60 (voltage code Y) MOTOR AMP DRAW = 4.3 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 | # CKTS | AMPS PER CIRCUIT (including motor) | BREAKER RATING PER CIRCUIT |
| ARC12-1036E ARC12-1042E ARC12-1048E ARC12-1060E | 14 | 28 | 2 | 26.8/44.9 | 35/60 | 2 | 23.7/38.9 | 30/50 | 1 | 43.2 | 60 | 1 | 38.0 | 50 |
| | 10 | 20 | 2 | 20.3/32.1 | 30/45 | 1 | 46.0 | 60 | 1 | 32.1 | 45 | 1 | 28.4 | 40 |
| | 8 | 16 | 1 | 42.8 | 60 | 1 | 37.6 | 50 | 1 | 26.5 | 35 | 1 | 23.5 | 30 |
| | 6 | 12 | 1 | 33.1 | 45 | 1 | 29.3 | 40 | 1 | 21.0 | 30 | 1 | 18.7 | 25 |
| ARC12-2060E ARC12-2072E ARC12-2084E ARC12-2096E ARC12-2108E ARC12-2120E | 28 | 28 | - | N/A | N/A | - | N/A | N/A | 2 | 47.5/38.9 | 60/50 | 2 | 42.5/33.7 | 60/45 |
| | 20 | 20 | - | N/A | N/A | - | N/A | N/A | 2 | 36.4/27.8 | 45/35 | 2 | 32.7/24.1 | 40/35 |
| | 16 | 16 | 2 | 47.1/38.5 | 60/50 | 2 | 41.9/33.3 | 60/45 | 2 | 30.8/22.2 | 40/30 | 1 | 47.1 | 60 |
| | 12 | 12 | 2 | 37.4/28.8 | 50/40 | 2 | 33.6/25.0 | 45/35 | 1 | 41.9 | 60 | 1 | 37.5 | 50 |
| ARC12-3096E ARC12-3108E ARC12-3120E ARC12-3132E ARC12-3144E | 42 | 28 | - | N/A | N/A | - | N/A | N/A | 3 | 47.5/43.2/38.9 | 60/60/50 | 3 | 46.6/33.7/33.7 | 60/45/45 |
| | 30 | 20 | - | N/A | N/A | - | N/A | N/A | 3 | 40.7/27.8/27.8 | 50/35/35 | 2 | 37.0/48.1 | 45/60 |
| | 24 | 16 | - | N/A | N/A | - | N/A | N/A | 2 | 35.1/44.4 | 45/60 | 2 | 32.1/19.2 | 40/50 |
| | 18 | 12 | - | N/A | N/A | - | N/A | N/A | 2 | 29.6/33.3 | 35/45 | 2 | 27.3/28.9 | 35/40 |
| ARC12-4144E | 56 | 28 | - | N/A | N/A | - | N/A | N/A | 4 | 47.5/47.5/38.9/38.9 | 60/60/50/50 | 4 | 46.6/38.0/33.7/33.7 | 60/60/45/45 |
| | 40 | 20 | - | N/A | N/A | - | N/A | N/A | 4 | 36.4/36.4/27.8/27.8 | 45/45/35/35 | 3 | 32.7/32.7/48.1 | 40/40/60 |
| | 32 | 16 | - | N/A | N/A | - | N/A | N/A | 3 | 30.8/30.8/44.4 | 40/40/60 | 2 | 47.1/47.1 | 60/60 |
| | 24 | 12 | - | N/A | N/A | - | N/A | N/A | 2 | 41.9/41.9 | 60/60 | 2 | 37.5/37.5 | 50/50 |



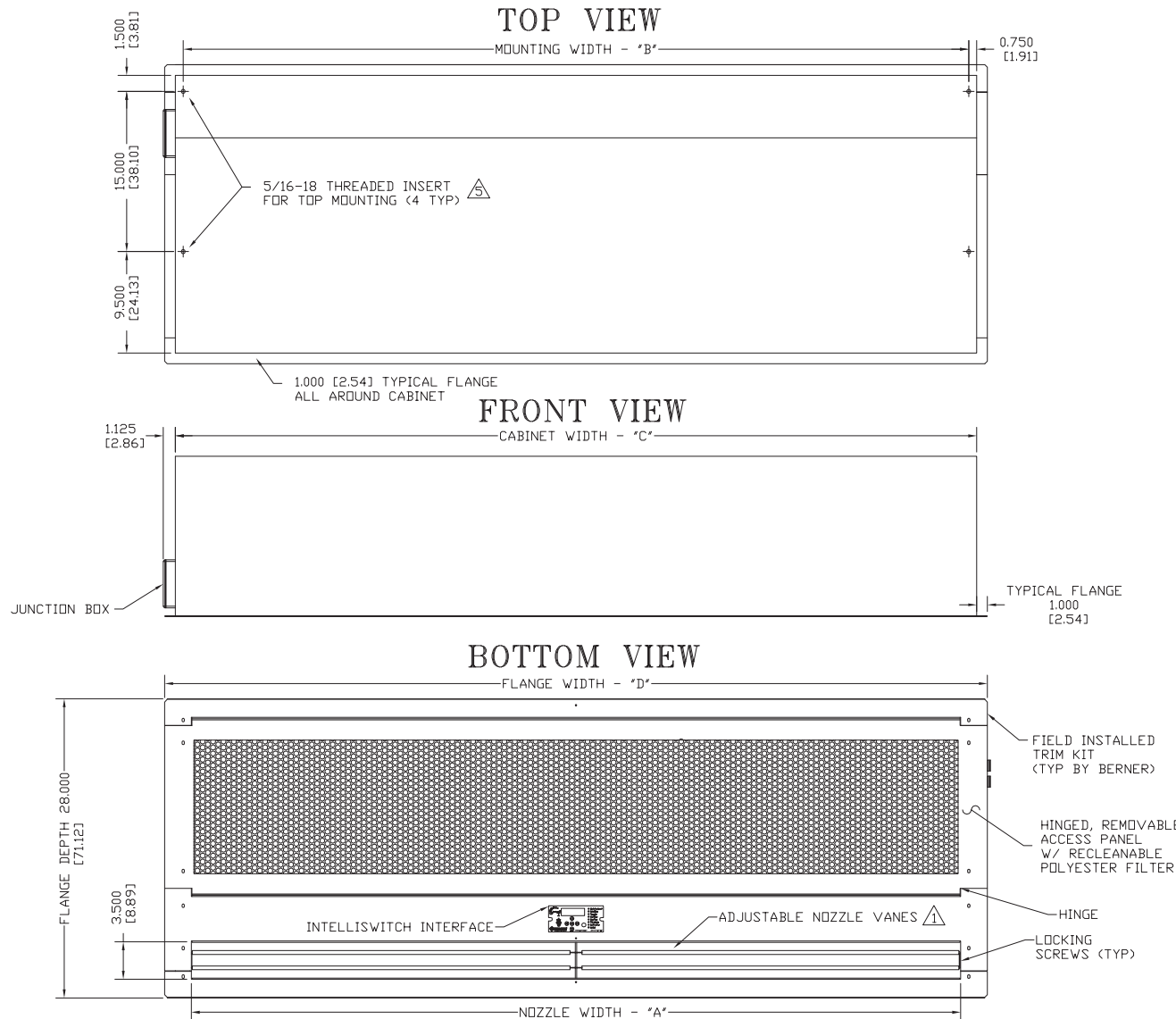
ARCHITECTURAL RECESSED 12

Electric Heated Air Curtain

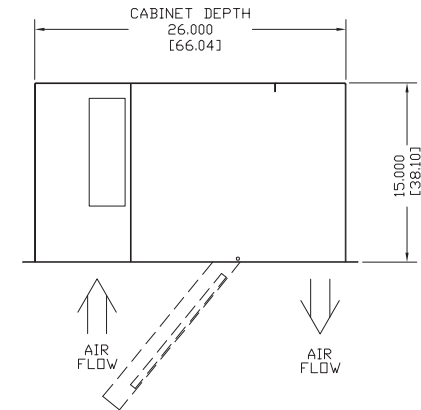
Electrical Performance Sheet

| MODEL | kW option | Temp Rise °F | 480/3/60 (voltage code Z) MOTOR AMP DRAW = 1.4 each | | | 600/3/60 (voltage code Q) MOTOR AMP DRAW = 1.0 each | | | 380/3/50 (voltage code O) MOTOR AMP DRAW = 4.0 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 |
| ARC12-1036E ARC12-1042E ARC12-1048E ARC12-1060E | 14 | 28 | 1 | 18.2 | 25 | 1 | 15.1 | 20 | 1 | 25.6 | 35 |
| | 10 | 20 | 1 | 13.4 | 20 | 1 | 11.0 | 15 | 1 | 19.5 | 25 |
| | 8 | 16 | 1 | 11.0 | 15 | 1 | 9.0 | 15 | 1 | 16.5 | 25 |
| | 6 | 12 | 1 | 8.6 | 15 | 1 | 7.0 | 15 | 1 | 13.4 | 20 |
| ARC12-2060E ARC12-2072E ARC12-2084E ARC12-2096E ARC12-2108E ARC12-2120E | 28 | 28 | 1 | 36.5 | 50 | 1 | 30.1 | 40 | 2 | 29.9/21.3 | 40/30 |
| | 20 | 20 | 1 | 26.9 | 35 | 1 | 22.1 | 30 | 1 | 39.0 | 50 |
| | 16 | 16 | 1 | 22.0 | 30 | 1 | 18.1 | 25 | 1 | 32.9 | 45 |
| | 12 | 12 | 1 | 17.2 | 25 | 1 | 14.0 | 20 | 1 | 26.8 | 35 |
| ARC12-3096E ARC12-3108E ARC12-3120E ARC12-3132E ARC12-3144E | 42 | 28 | 2 | 29.5/25.3 | 40/35 | 1 | 45.2 | 60 | 2 | 34.2/42.5 | 45/60 |
| | 30 | 20 | 1 | 40.3 | 50 | 1 | 33.1 | 40 | 2 | 43.3/15.2 | 60/20 |
| | 24 | 16 | 1 | 33.1 | 45 | 1 | 27.1 | 35 | 2 | 37.2/12.2 | 45/20 |
| | 18 | 12 | 1 | 25.9 | 35 | 1 | 21.1 | 25 | 1 | 40.2 | 50 |
| ARC12-4144E | 56 | 28 | 2 | 39.3/33.7 | 50/45 | 2 | 32.1/28.1 | 40/35 | 3 | 38.5/42.5/21.3 | 45/60/30 |
| | 40 | 20 | 2 | 29.7/24.1 | 40/35 | 1 | 44.2 | 60 | 2 | 47.6/30.4 | 60/40 |
| | 32 | 16 | 1 | 44.1 | 60 | 1 | 36.1 | 45 | 2 | 41.5/24.3 | 50/35 |
| | 24 | 12 | 1 | 34.5 | 45 | 1 | 28.1 | 35 | 2 | 44.5/9.1 | 60/15 |

ARC12 IN-CEILING MOUNT ELECTRIC HEATED



END VIEW



NOTES:

- \triangle AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT OBSTRUCTED WHEN DEFLECTED 20° TO EITHER SIDE OF ϕ .
- \triangle ELECTRICAL CONNECTIONS TO BE FLEXIBLE.
- \triangle FIELD VERIFY DIMENSIONS.
- \triangle ANCHORS TO SUPPORTING STRUCTURE BY OTHERS.
- \triangle ADEQUACY OF SUPPORTING STRUCTURE IS TO BE VERIFIED BY A PROFESSIONAL STRUCTURAL ENGINEER.
- \triangle LETTER "E" IN MODEL NUMBER DESIGNATES ELECTRIC HEATED UNIT.
- \triangle DIMENSIONS IN INCHES [CENTIMETERS].

| MODEL \triangle | NOZZLE WIDTH "A" | MOUNTING WIDTH "B" | CABINET WIDTH "C" | FLANGE WIDTH "D" | RECOMMENDED ROUGH OPENING DEPTH x WIDTH |
|-------------------|------------------|--------------------|-------------------|------------------|---|
| ARC12-1036E | 36.00 [91.44] | 37.50 [95.25] | 39.00 [99.06] | 41.00 [104.14] | 27.00 x 40.00 [68.58 x 101.60] |
| ARC12-1042E | 42.00 [106.68] | 43.50 [110.49] | 45.00 [114.30] | 47.00 [119.38] | 27.00 x 46.00 [68.58 x 116.84] |
| ARC12-1048E | 48.00 [121.92] | 49.50 [125.73] | 51.00 [129.54] | 53.00 [134.62] | 27.00 x 52.00 [68.58 x 132.08] |
| ARC12-1060E/2060E | 66.00 [167.64] | 67.50 [171.45] | 69.00 [175.26] | 71.00 [180.34] | 27.00 x 70.00 [68.58 x 177.80] |
| ARC12-2072E | 72.00 [182.88] | 73.50 [186.69] | 75.00 [190.50] | 77.00 [195.58] | 27.00 x 76.00 [68.58 x 193.04] |
| ARC12-2084E | 84.00 [213.36] | 85.50 [217.17] | 87.00 [220.98] | 89.00 [226.06] | 27.00 x 88.00 [68.58 x 223.52] |
| ARC12-2096E/3096E | 99.00 [251.46] | 100.50 [255.27] | 102.00 [259.08] | 104.00 [264.16] | 27.00 x 103.00 [68.58 x 261.62] |
| ARC12-2108E/3108E | 108.00 [274.32] | 109.50 [278.13] | 111.00 [281.94] | 113.00 [287.02] | 27.00 x 112.00 [68.58 x 284.48] |
| ARC12-2120E/3120E | 117.00 [297.18] | 118.50 [300.99] | 120.00 [304.80] | 122.00 [309.88] | 27.00 x 121.00 [68.58 x 307.34] |
| ARC12-3132E | 132.00 [335.28] | 133.50 [339.09] | 135.00 [342.90] | 137.00 [347.98] | 27.00 x 136.00 [68.58 x 345.44] |
| ARC12-3144E/4144E | 144.00 [365.76] | 145.50 [369.57] | 147.00 [373.38] | 149.00 [378.46] | 27.00 x 148.00 [68.58 x 375.92] |

| | | |
|-----------|-----------|---|
| PROJECT | | |
| LOCATION | | |
| ARCHITECT | | |
| ENGINEER | | REV. - |
| DWG. NO. | ARC12-ELE | TITLE: BERNER |
| DATE | 22SEPT14 | MODEL ARC12 AIR CURTAIN |
| BY | S. Beil | ELECTRIC HEATED SYSTEM |
| REPLACES | - | |
| BY | - | BERNER INTERNATIONAL CORP. NEW CASTLE, PA. |