

For Mounting Heights To 16' (environmental separation)

STANDARD CONSTRUCTION

- 15" high x 26" deep
- 1 hp two 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)
- Factory installed coil
- Optional: Wi-Fi Controller, works with the Berner App

**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 | Coil Output (MBH) | Inlet Pressure (PSIG) | Condensate (lbs/hr) | Air Temp. Rise (°F) | Net Wt. (lbs) |
|-------------|-------------------|--------------------------|------------------------|------------------|------------------------|-------------------|---------------|-------------------|-----------------------|---------------------|---------------------|---------------|
| ARC16-1036S | 36.00 | 6,250 | 2,368 | 2,072 | 90% | 0.91 | 1 @ 1 | 74.4 | 5 | 76.6 | 33° | 141 |
| ARC16-1042S | 42.00 | 5,594 | 2,208 | 2,254 | 88% | 0.96 | 1 @ 1 | 84.9 | 5 | 87.5 | 34° | 151 |
| ARC16-1048S | 48.00 | 5,627 | 2,015 | 2,351 | 77% | 1.09 | 1 @ 1 | 93.6 | 5 | 96.4 | 36° | 160 |
| ARC16-1060S | 66.00 | 5,401 | 1,502 | 2,410 | 73% | 1.12 | 1 @ 1 | 107.2 | 5 | 110.5 | 41° | 187 |
| ARC16-2060S | 66.00 | 4,440 | 2,446 | 3,924 | 92% | 1.79 | 2 @ 1 | 134.8 | 5 | 138.9 | 31° | 227 |
| ARC16-2072S | 72.00 | 6,250 | 2,368 | 4,144 | 90% | 1.82 | 2 @ 1 | 155.0 | 5 | 159.7 | 34° | 243 |
| ARC16-2084S | 84.00 | 5,594 | 2,208 | 4,508 | 88% | 1.92 | 2 @ 1 | 175.6 | 5 | 181.0 | 36° | 262 |
| ARC16-2096S | 99.00 | 5,627 | 1,954 | 4,702 | 77% | 2.18 | 2 @ 1 | 192.7 | 5 | 198.6 | 37° | 279 |
| ARC16-3096S | 99.00 | 6,250 | 2,492 | 5,996 | 90% | 2.70 | 3 @ 1 | 215.7 | 5 | 222.3 | 33° | 321 |
| ARC16-2108S | 108.00 | 5,401 | 1,814 | 4,761 | 73% | 2.21 | 2 @ 1 | 204.3 | 5 | 210.6 | 39° | 302 |
| ARC16-3108S | 108.00 | 6,250 | 2,368 | 6,216 | 90% | 2.73 | 3 @ 1 | 231.8 | 5 | 238.9 | 34° | 354 |
| ARC16-2120S | 117.00 | 5,401 | 1,695 | 4,820 | 73% | 2.24 | 2 @ 1 | 215.4 | 5 | 222.0 | 41° | 325 |
| ARC16-3120S | 117.00 | 5,594 | 2,314 | 6,580 | 88% | 2.83 | 3 @ 1 | 250.2 | 5 | 257.9 | 35° | 371 |
| ARC16-3132S | 132.00 | 5,627 | 2,138 | 6,859 | 77% | 3.01 | 3 @ 1 | 272.6 | 5 | 281.0 | 36° | 392 |
| ARC16-3144S | 144.00 | 5,627 | 2,015 | 7,053 | 77% | 3.27 | 3 @ 1 | 289.5 | 5 | 298.4 | 38° | 409 |
| ARC16-4144S | 144.00 | 6,250 | 2,368 | 8,288 | 90% | 3.64 | 4 @ 1 | 312.3 | 5 | 321.9 | 34° | 467 |

NOTES:

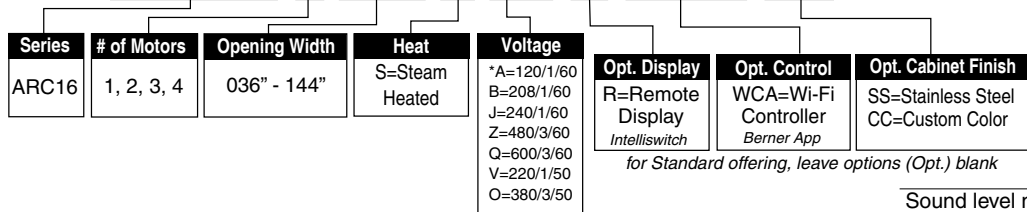
1. Operation at 50 Hz will generate approximately a 17% reduction in performance.
2. Performance data based on AMCA licensed data from unheated units.
3. Coil performance based on 65°F entering air temperature.
4. Standard connection same end supply/return (Optional: opposite end supply/return).
5. Coil should be field supplied with a solenoid valve that energizes only when air curtain is energized. Consideration must be taken for freeze protection when necessary.
6. Maximum leaving air temperature shall not exceed 120°F.
7. Consult factory for alternate steam pressures and opposite end supply/return connections performance data.

Berner does not recommend ARC16-1060S, ARC16-2108S and ARC16-2120S, exists only as an equivalent to competitors' models.

See sheet EP-254 for amp draws/total load requirements.

MODEL NUMBER CONFIGURATION

ARC16-1 036 S A -R-WCA-SS



for Standard offering, leave options (Opt.) blank

| | | |
|--|------------------|-----------|
| Sound level measured 10' (3m) from the unit in free field: | | |
| 1 motor: | Min./Max. Speed: | 62/65 dBA |
| 2 motors: | Min./Max. Speed: | 65/68 dBA |
| 3 motors: | Min./Max. Speed: | 67/70 dBA |
| 4 motors: | Min./Max. Speed: | 68/71 dBA |

Sound data is not AMCA certified.

Berner reserves the right to alter specifications without prior notice.



ARCHITECTURAL RECESSED 16

Steam Heated Air Curtain Electrical Performance Sheet

| MODEL | 120/1/60 (voltage code A) MOTOR AMP DRAW = 12.6 each | | | 208/1/60 (voltage code B) MOTOR AMP DRAW = 6.5 each | | | 240/1/60 (voltage code J) or 220/1/50 (voltage code V) MOTOR AMP DRAW = 6.5 each | | |
|--|---|------------------|----------------------------|--|------------------|----------------------------|--|------------------|----------------------------|
| | # CKTS | AMPS PER CIRCUIT | BREAKER RATING PER CIRCUIT | # CKTS | AMPS PER CIRCUIT | BREAKER RATING PER CIRCUIT | # CKTS | AMPS PER CIRCUIT | BREAKER RATING PER CIRCUIT |
| ARC16-1036S ARC16-1042S ARC16-1048S ARC16-1060S | 1 | 12.6 | 20 | 1 | 6.5 | 15 | 1 | 6.5 | 15 |
| ARC16-2060S ARC16-2072S ARC16-2084S ARC16-2096S ARC16-2108S ARC16-2120S | 1 | 25.2 | 30 | 1 | 13.0 | 15 | 1 | 13.0 | 15 |
| ARC16-3096S ARC16-3108S ARC16-3120S ARC16-3132S ARC16-3144S | 1 | 37.8 | 45 | 1 | 19.5 | 25 | 1 | 19.5 | 25 |
| ARC16-4144S | 1 | 50.4 | 60 | 1 | 26.0 | 30 | 1 | 26.0 | 30 |

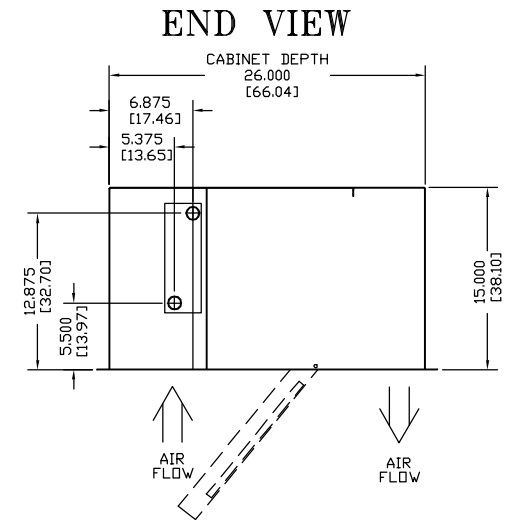
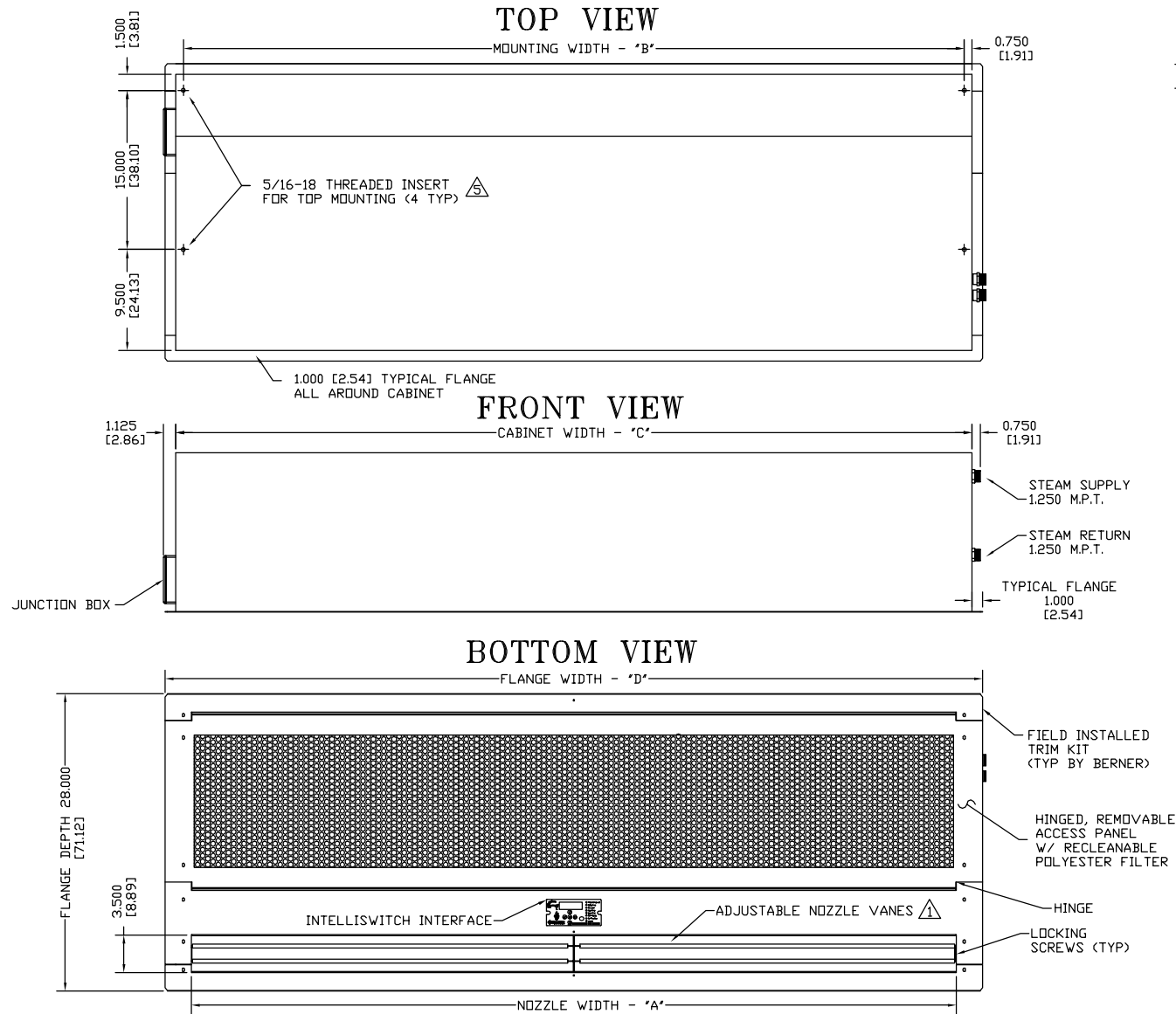
| MODEL | 480/3/60 (voltage code Z) MOTOR AMP DRAW = 3.2 each | | | 600/3/60 (voltage code Q) MOTOR AMP DRAW = 2.0 each | | | 380/3/50 (voltage code O) MOTOR AMP DRAW = 4.3 each | | |
|--|--|------------------|----------------------------|--|------------------|----------------------------|--|------------------|----------------------------|
| | # CKTS | AMPS PER CIRCUIT | BREAKER RATING PER CIRCUIT | # CKTS | AMPS PER CIRCUIT | BREAKER RATING PER CIRCUIT | # CKTS | AMPS PER CIRCUIT | BREAKER RATING PER CIRCUIT |
| ARC16-1036S ARC16-1042S ARC16-1048S ARC16-1060S | 1 | 3.2 | 15 | 1 | 2.0 | 15 | 1 | 6.5 | 15 |
| ARC16-2060S ARC16-2072S ARC16-2084S ARC16-2096S ARC16-2108S ARC16-2120S | 1 | 6.4 | 15 | 1 | 4.0 | 15 | 1 | 13.0 | 15 |
| ARC16-3096S ARC16-3108S ARC16-3120S ARC16-3132S ARC16-3144S | 1 | 9.6 | 15 | 1 | 6.0 | 15 | 1 | 19.5 | 25 |
| ARC16-4144S | 1 | 12.8 | 15 | 1 | 8.0 | 15 | 1 | 26.0 | 30 |

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www.berner.com **Berner International** 800.245-4455
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EP-254
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ARC16 IN-CEILING MOUNT STEAM HEATED



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 LETTER "S" IN MODEL NUMBER DESIGNATES STEAM HEATED UNIT.
- ⑦ DIMENSIONS IN INCHES [CENTIMETERS].

| MODEL ⑥ | NOZZLE WIDTH "A" | MOUNTING WIDTH "B" | CABINET WIDTH "C" | FLANGE WIDTH "D" | RECOMMENDED ROUGH OPENING DEPTH x WIDTH |
|-------------------|------------------|--------------------|-------------------|------------------|---|
| ARC16-1036S | 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] |
| ARC16-1042S | 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] |
| ARC16-1048S | 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] |
| ARC16-1060S/2060S | 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] |
| ARC16-2072S | 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] |
| ARC16-2084S | 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] |
| ARC16-2096S/3096S | 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] |
| ARC16-2108S/3108S | 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] |
| ARC16-2120S/3120S | 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] |
| ARC16-3132S | 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] |
| ARC16-3144S/4144S | 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. A | |
| DWG. NO. | ARC16-STM | TITLE: BERNER |
| DATE | 25JULY2016 | MODEL ARC16 AIR CURTAIN |
| BY | S. Beil | STEAM HEATED SYSTEM |
| REPLACES | 22SEPT14 | BERNER INTERNATIONAL CORP. NEW CASTLE, PA. |
| BY | S. Beil | |