



ARCHITECTURAL RECESSED 12

Steam Heated Air Curtain

Data Sheet

For Mounting Heights To 12' (environmental separation)

STANDARD CONSTRUCTION

- 15" high x 26" deep
- ½ hp motor(s) - ten speeds
- Factory installed Intelliswitch digital controller
- White aluminum exterior panel
(Optional: Custom Color or Stainless)
- Top Mounting only
- High efficiency, low noise Pro-V Nozzle
- Factory installed coil
- Filter (washable)
- Optional: Wi-Fi Controller, works with the Berner App



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 (steam 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.

Models ARD12-1060S, ARD12-2108S and ARD12-2120S are not licensed to bear the AMCA seal.

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) |
|-------------|-------------------|--------------------------|------------------------|------------------|------------------------|-------------------|---------------|-------------------|-----------------------|---------------------|---------------------|---------------|
| ARD12-1036S | 36.00 | 4,830 | 1,439 | 1,259 | 75% | 0.54 | 1 @ 1/2 | 53.7 | 5 | 55.4 | 39° | 134 |
| ARD12-1042S | 42.00 | 5,773 | 1,233 | 1,259 | 66% | 0.62 | 1 @ 1/2 | 58.4 | 5 | 60.2 | 43° | 144 |
| ARD12-1048S | 48.00 | 7,300 | 1,079 | 1,259 | 77% | 0.59 | 1 @ 1/2 | 62.5 | 5 | 64.4 | 46° | 153 |
| ARD12-1060S | 66.00 | 4,828 | 1,027 | 1,647 | 83% | 0.52 | 1 @ 1/2 | 84.5 | 5 | 87.1 | 47° | 182 |
| ARD12-2060S | 66.00 | 3,982 | 1,408 | 2,258 | 76% | 0.89 | 2 @ 1/2 | 100.0 | 5 | 103.1 | 41° | 219 |
| ARD12-2072S | 72.00 | 4,830 | 1,439 | 2,518 | 75% | 1.08 | 2 @ 1/2 | 111.4 | 5 | 114.9 | 41° | 234 |
| ARD12-2084S | 84.00 | 5,773 | 1,233 | 2,518 | 66% | 1.24 | 2 @ 1/2 | 120.3 | 5 | 124.0 | 43° | 252 |
| ARD12-2096S | 99.00 | 7,300 | 1,046 | 2,518 | 77% | 1.18 | 2 @ 1/2 | 128.1 | 5 | 132.0 | 47° | 269 |
| ARD12-3096S | 99.00 | 3,982 | 1,462 | 3,517 | 75% | 1.43 | 3 @ 1/2 | 153.0 | 5 | 157.7 | 40° | 309 |
| ARD12-2108S | 108.00 | 4,828 | 1,107 | 2,906 | 83% | 1.03 | 2 @ 1/2 | 145.1 | 5 | 149.6 | 46° | 292 |
| ARD12-3108S | 108.00 | 4,830 | 1,439 | 3,777 | 75% | 1.62 | 3 @ 1/2 | 166.8 | 5 | 171.9 | 41° | 342 |
| ARD12-2120S | 117.00 | 4,828 | 1,158 | 3,294 | 83% | 1.04 | 2 @ 1/2 | 162.1 | 5 | 167.0 | 45° | 315 |
| ARD12-3120S | 117.00 | 4,830 | 1,328 | 3,777 | 66% | 1.78 | 3 @ 1/2 | 174.3 | 5 | 179.7 | 43° | 359 |
| ARD12-3132S | 132.00 | 5,773 | 1,177 | 3,777 | 66% | 1.83 | 3 @ 1/2 | 184.8 | 5 | 190.5 | 45° | 380 |
| ARD12-3144S | 144.00 | 7,300 | 1,079 | 3,777 | 77% | 1.77 | 3 @ 1/2 | 192.5 | 5 | 198.4 | 47° | 397 |
| ARD12-4144S | 144.00 | 4,830 | 1,439 | 5,036 | 75% | 2.16 | 4 @ 1/2 | 224.4 | 5 | 231.3 | 41° | 453 |

NOTES:

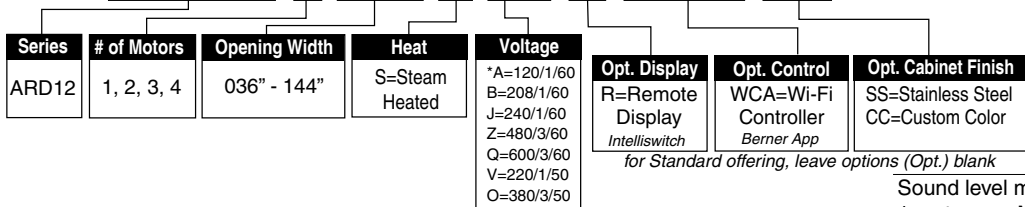
1. Operation at 50 Hz will generate approximately a 17% reduction in performance.
2. Coil performance based on 65°F entering air temperature.
3. Standard connection same end supply/return (Optional: opposite end supply/return).
4. Coil should be field supplied with a solenoid valve that energizes only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

Berner does not recommend ARD12-1060S, ARD12-2108S and ARD12-2120S, exists only as an equivalent to competitors' models.

See sheet EP-244 for amp draws/total load requirements

MODEL NUMBER CONFIGURATION

ARD12-1 036 S A -R-WCA-SS



| VELOCITY PROJECTION: Model ARD12-1036S | | | | | |
|--|------|------|-----|-----|-----|
| Distance from Nozzle (in) | 40 | 80 | 120 | 160 | 200 |
| Core Velocity (fpm) | 1400 | 1090 | 920 | 770 | 670 |
| Uniformity (%) | 81 | 92 | 93 | 91 | 90 |

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

| | | |
|-----------|------------------|-----------|
| 1 motor: | Min./Max. Speed: | 59/62 dBA |
| 2 motors: | Min./Max. Speed: | 62/65 dBA |
| 3 motors: | Min./Max. Speed: | 64/67 dBA |
| 4 motors: | Min./Max. Speed: | 65/68 dBA |

Sound data is not AMCA certified.

Berner reserves the right to alter specifications without prior notice.



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Electrical Performance Sheet

| MODEL | # CKTS | 120/1/60 (voltage code A) MOTOR AMP DRAW = 8.5 each | | # CKTS | 208/1/60 (voltage code B) MOTOR AMP DRAW = 4.3 each | | # CKTS | 240/1/60 (voltage code J) or 220/1/50 (voltage code V) MOTOR AMP DRAW = 4.3 each | |
|--|--------|--|----------------------------|--------|--|----------------------------|--------|--|----------------------------|
| | | AMPS PER CIRCUIT | BREAKER RATING PER CIRCUIT | | AMPS PER CIRCUIT | BREAKER RATING PER CIRCUIT | | AMPS PER CIRCUIT | BREAKER RATING PER CIRCUIT |
| ARD12-1036S ARD12-1042S ARD12-1048S ARD12-1060S | 1 | 8.5 | 15 | 1 | 4.3 | 15 | 1 | 4.3 | 15 |
| ARD12-2060S ARD12-2072S ARD12-2084S ARD12-2096S ARD12-2108S ARD12-2120S | 1 | 17.0 | 20 | 1 | 8.6 | 15 | 1 | 8.6 | 15 |
| ARD12-3096S ARD12-3108S ARD12-3120S ARD12-3132S ARD12-3144S | 1 | 25.5 | 30 | 1 | 12.9 | 15 | 1 | 12.9 | 15 |
| ARD12-4144S | 1 | 34.0 | 40 | 1 | 17.2 | 20 | 1 | 17.2 | 20 |



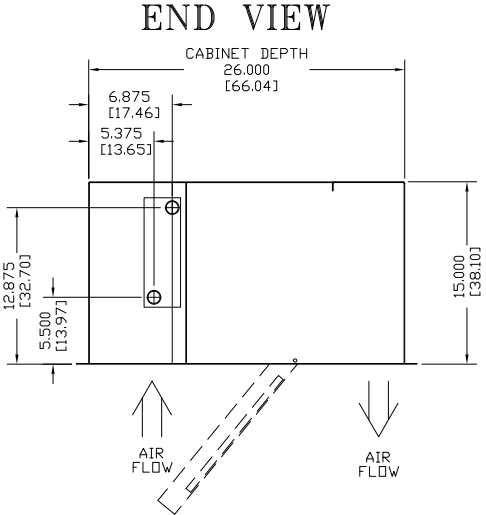
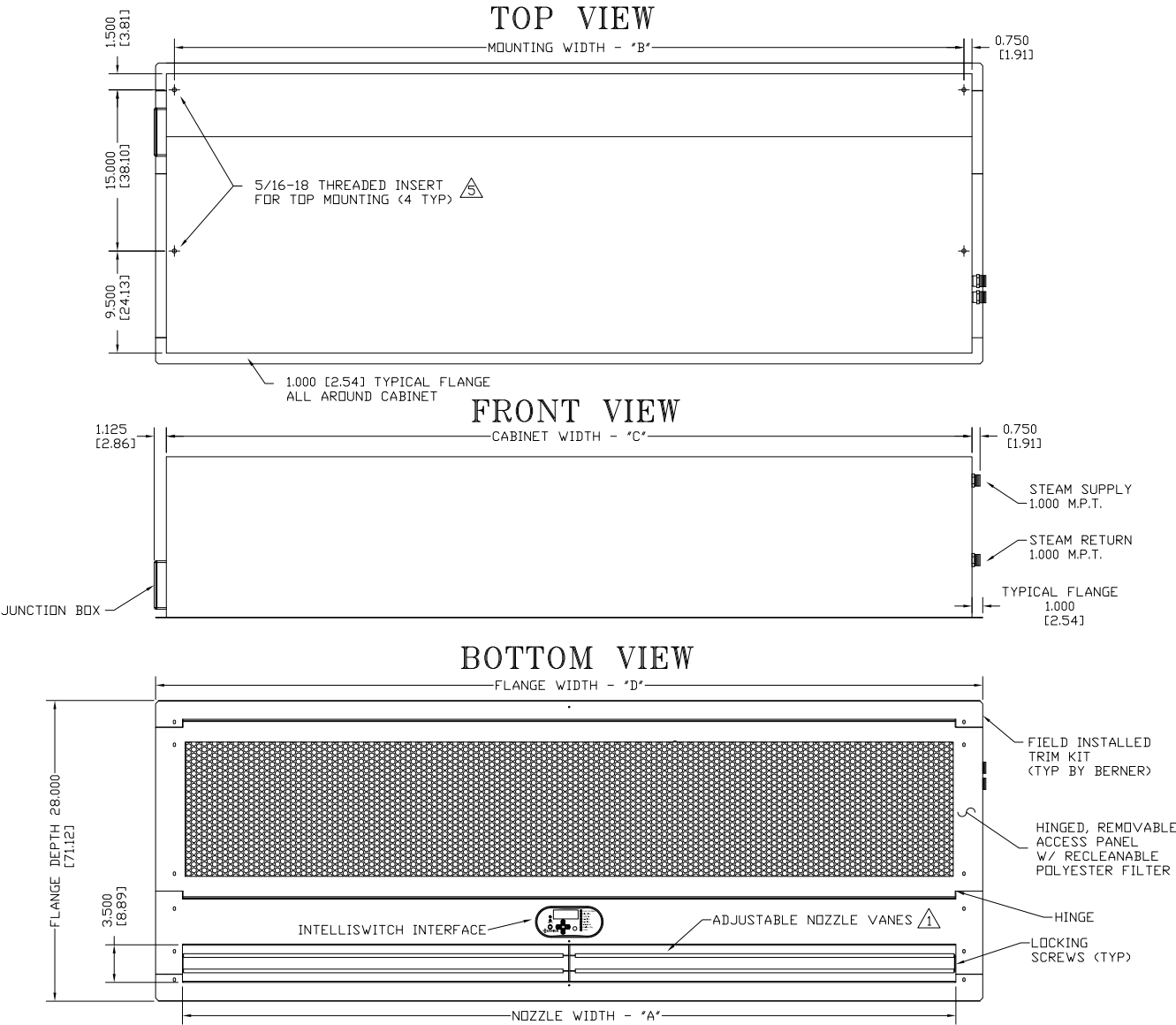
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Electrical Performance Sheet

| MODEL | # CKTS | 480/3/60 (voltage code Z) MOTOR XFMR AMP DRAW = 2.1 per kva | | 600/3/60 (voltage code Q) MOTOR XFMR AMP DRAW = 1.7 per kva | | 380/3/50 (voltage code O) MOTOR AMP DRAW = 4.3 each | | | |
|--|--------|--|----------------------------|--|----------------------------|--|----------------------------|------|----|
| | | AMPS PER CIRCUIT | BREAKER RATING PER CIRCUIT | AMPS PER CIRCUIT | BREAKER RATING PER CIRCUIT | AMPS PER CIRCUIT | BREAKER RATING PER CIRCUIT | | |
| ARD12-1036S ARD12-1042S ARD12-1048S ARD12-1060S | 1 | 2.1 | 15 | 1 | 1.7 | 15 | 1 | 4.3 | 15 |
| ARD12-2060S ARD12-2072S ARD12-2084S ARD12-2096S ARD12-2108S ARD12-2120S | 1 | 4.2 | 15 | 1 | 3.4 | 15 | 1 | 8.6 | 15 |
| ARD12-3096S ARD12-3108S ARD12-3120S ARD12-3132S ARD12-3144S | 1 | 6.3 | 15 | 1 | 5.1 | 15 | 1 | 12.9 | 15 |
| ARD12-4144S | 1 | 10.5 | 15 | 1 | 8.5 | 15 | 1 | 17.2 | 20 |

ARD12 ARCHITECTURAL RECESSED 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 | NOZZLE WIDTH "A" | MOUNTING WIDTH "B" | CABINET WIDTH "C" | FLANGE WIDTH "D" | RECOMMENDED ROUGH OPENING DEPTH x WIDTH |
|-------------------|------------------|--------------------|-------------------|------------------|---|
| ARD12-1036S | 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] |
| ARD12-1042S | 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] |
| ARD12-1048S | 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] |
| ARD12-1060S/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] |
| ARD12-2072S | 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] |
| ARD12-2084S | 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] |
| ARD12-2096S/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] |
| ARD12-2108S/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] |
| ARD12-2120S/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] |
| ARD12-3132S | 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] |
| ARD12-3144S/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: -- |
| DWG. NO. | ARD12-STM | TITLE: BERNER |
| DATE | 31MAR2017 | MODEL ARD12 AIR CURTAIN |
| BY | S. Beil | STEAM HEATED SYSTEM |
| REPLACES | - | |
| BY | - | BERNER INTERNATIONAL CORP. NEW CASTLE, PA. |