**Recommended for Mounting Heights to 16’ (environmental separation)**

**STANDARD CONSTRUCTION**
- 15’ high x 26’ deep
- 1 hp motor(s) - two speeds
- Factory installed Intelliswitch digital controller
- White aluminum bottom panel
- Top Mounting only
- High efficiency, low noise Pro-V Nozzle
- Filter (washable)
- Factory installed coil

**OPTIONS**
- Bottom panel finish: Custom Color or Stainless
- Berner AIR™ (smart controller & app, includes BACnet)

<table>
<thead>
<tr>
<th></th>
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<td>ARC16-1036S</td>
<td>36.00</td>
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<td>2,368</td>
<td>2,072</td>
<td>90%</td>
<td>0.91</td>
<td>1 @ 1</td>
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<td>2,351</td>
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<td>1.09</td>
<td>1 @ 1</td>
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<td>5</td>
<td>96.4</td>
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<td>2,410</td>
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<td>1.12</td>
<td>1 @ 1</td>
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<td>1.79</td>
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<td>2 @ 1</td>
<td>155.0</td>
<td>5</td>
<td>159.7</td>
<td>34°</td>
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<td>84.00</td>
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<td>2,015</td>
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<td>1.92</td>
<td>2 @ 1</td>
<td>175.6</td>
<td>5</td>
<td>181.0</td>
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<td>ARC16-2096S</td>
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<td>5,627</td>
<td>1,954</td>
<td>4,702</td>
<td>77%</td>
<td>2.18</td>
<td>2 @ 1</td>
<td>192.7</td>
<td>5</td>
<td>198.6</td>
<td>37°</td>
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<td>2,492</td>
<td>5,996</td>
<td>90%</td>
<td>2.70</td>
<td>3 @ 1</td>
<td>215.7</td>
<td>5</td>
<td>223.2</td>
<td>33°</td>
<td>321</td>
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<td>1,814</td>
<td>4,761</td>
<td>73%</td>
<td>2.21</td>
<td>2 @ 1</td>
<td>204.3</td>
<td>5</td>
<td>210.6</td>
<td>39°</td>
<td>302</td>
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<td>2,368</td>
<td>6,216</td>
<td>90%</td>
<td>2.73</td>
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<td>231.8</td>
<td>5</td>
<td>238.9</td>
<td>34°</td>
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<td>4,820</td>
<td>73%</td>
<td>2.24</td>
<td>2 @ 1</td>
<td>215.4</td>
<td>5</td>
<td>222.0</td>
<td>41°</td>
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<td>2,314</td>
<td>6,580</td>
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<td>2.83</td>
<td>3 @ 1</td>
<td>250.2</td>
<td>5</td>
<td>257.9</td>
<td>35°</td>
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<td>2,138</td>
<td>6,859</td>
<td>77%</td>
<td>3.01</td>
<td>3 @ 1</td>
<td>272.6</td>
<td>5</td>
<td>281.0</td>
<td>36°</td>
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<td>5,627</td>
<td>2,015</td>
<td>7,053</td>
<td>77%</td>
<td>3.27</td>
<td>3 @ 1</td>
<td>289.5</td>
<td>5</td>
<td>296.4</td>
<td>38°</td>
<td>409</td>
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<td>ARC16-4144S</td>
<td>144.00</td>
<td>6,250</td>
<td>2,368</td>
<td>8,288</td>
<td>90%</td>
<td>3.64</td>
<td>4 @ 1</td>
<td>312.3</td>
<td>5</td>
<td>321.9</td>
<td>34°</td>
<td>467</td>
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</tbody>
</table>

**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

- **Series**
  - ARC16
- **# of Motors**
  - 1, 2, 3, 4
- **Opening Width**
  - 36” - 144”
- **Heat**
  - S=Steam Heated
- **Voltage**
  - A=120/1/60
  - B=208/1/60
  - J=240/1/60
  - Z=480/3/60
  - Q=600/3/60
  - V=220/1/50
  - O=380/3/50
- **Opt. Display**
  - R=Remote Display
  - WCA=Berner AIR™ Display
  - Intelliswitch
- **Opt. Control**
  - WCA=Berner AIR™ smart control
- **Opt. Bottom Panel**
  - SS=Stainless Steel
  - CC=Custom Color

**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.

---

www.berner.com  Berner International  800.245.4455
111 Progress Ave. / New Castle / PA / 16101 / USA

DS-254  September, 2023

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### Electrical Performance Sheet

#### MODEL ARC16-1036S
- **# CKTS**: 1
- **AMPS PER CIRCUIT**: 12.6
- **BREAKER RATING PER CIRCUIT**: 20
- **AMPS PER CIRCUIT**: 6.5
- **BREAKER RATING PER CIRCUIT**: 15

#### MODEL ARC16-2060S
- **# CKTS**: 1
- **AMPS PER CIRCUIT**: 25.2
- **BREAKER RATING PER CIRCUIT**: 30
- **AMPS PER CIRCUIT**: 13.0
- **BREAKER RATING PER CIRCUIT**: 15

#### MODEL ARC16-3096S
- **# CKTS**: 1
- **AMPS PER CIRCUIT**: 37.8
- **BREAKER RATING PER CIRCUIT**: 45
- **AMPS PER CIRCUIT**: 19.5
- **BREAKER RATING PER CIRCUIT**: 25

#### MODEL ARC16-4144S
- **# CKTS**: 1
- **AMPS PER CIRCUIT**: 50.4
- **BREAKER RATING PER CIRCUIT**: 60
- **AMPS PER CIRCUIT**: 26.0
- **BREAKER RATING PER CIRCUIT**: 30

#### MODEL ARC16-1042S
- **# CKTS**: 1
- **AMPS PER CIRCUIT**: 3.2
- **BREAKER RATING PER CIRCUIT**: 15
- **AMPS PER CIRCUIT**: 2.0
- **BREAKER RATING PER CIRCUIT**: 15

#### MODEL ARC16-2072S
- **# CKTS**: 1
- **AMPS PER CIRCUIT**: 6.4
- **BREAKER RATING PER CIRCUIT**: 15
- **AMPS PER CIRCUIT**: 4.0
- **BREAKER RATING PER CIRCUIT**: 15

#### MODEL ARC16-3108S
- **# CKTS**: 1
- **AMPS PER CIRCUIT**: 9.6
- **BREAKER RATING PER CIRCUIT**: 15
- **AMPS PER CIRCUIT**: 6.0
- **BREAKER RATING PER CIRCUIT**: 15

#### MODEL ARC16-4144S
- **# CKTS**: 1
- **AMPS PER CIRCUIT**: 12.8
- **BREAKER RATING PER CIRCUIT**: 15
- **AMPS PER CIRCUIT**: 8.0
- **BREAKER RATING PER CIRCUIT**: 15

---

**Model Variations**

- **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):** MOTOR AMP DRAW = 6.5 each
- **220/1/50 (voltage code V):** MOTOR AMP DRAW = 6.5 each

**Voltages:**
- 480/3/60 (voltage code Z) 600/3/60 (voltage code Q) 380/3/50 (voltage code O)
- 240/1/60 (voltage code J) or 120/1/60 (voltage code A) 208/1/60 (voltage code B) 220/1/50 (voltage code V)

---

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**ARC16**

**IN-CEILING MOUNT**

**STEAM HEATED**

**TOP VIEW**

MOUNTING WIDTH - "B"

3/16-18 THREADER INSERT FOR TOP MOUNTING (4 TYP)

1000 (254) TYPICAL FLANGE ALL AROUND CABINET

**FRONT VIEW**

CABINET WIDTH - "C"

1195 (302.93)

1185 (296.13)

JUNCTION BOX

**BOTTOM VIEW**

FLANGE WIDTH - "D"

3150 (799.99)

3200 (812.81)

INTELLISWITCH INTERFACE

ADJUSTABLE NOZZLE VANES

**NOZZLE WIDTH - "A"**

**NOZZLE WIDTH - "A"**

**MOUNTING WIDTH - "B"**

**CABINET WIDTH - "C"**

**FLANGE WIDTH - "D"**

**RECOMMENDED ROUGH OPENING DEPTH x WIDTH**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>NOZZLE WIDTH &quot;A&quot;</th>
<th>MOUNTING WIDTH &quot;B&quot;</th>
<th>CABINET WIDTH &quot;C&quot;</th>
<th>FLANGE WIDTH &quot;D&quot;</th>
<th>RECOMMENDED ROUGH OPENING DEPTH x WIDTH</th>
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<tbody>
<tr>
<td>ARC16-1024S</td>
<td>36.00 (91.44)</td>
<td>39.50 (100.33)</td>
<td>39.00 (99.06)</td>
<td>41.00 (104.14)</td>
<td>27.00 x 46.00 (685.8 x 117.44)</td>
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<tr>
<td>ARC16-1042S</td>
<td>42.00 (106.68)</td>
<td>43.50 (110.49)</td>
<td>45.00 (114.30)</td>
<td>47.00 (119.38)</td>
<td>27.00 x 46.00 (685.8 x 117.44)</td>
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<tr>
<td>ARC16-1048S</td>
<td>48.00 (121.92)</td>
<td>49.50 (125.73)</td>
<td>51.00 (129.54)</td>
<td>53.00 (134.23)</td>
<td>27.00 x 52.00 (685.8 x 132.08)</td>
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<tr>
<td>ARC16-1060S/1060S</td>
<td>66.00 (167.64)</td>
<td>67.50 (171.45)</td>
<td>69.00 (175.26)</td>
<td>71.00 (180.34)</td>
<td>27.00 x 70.00 (685.8 x 177.80)</td>
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<td>77.00 (196.37)</td>
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<td>145.50 (365.57)</td>
<td>147.00 (373.80)</td>
<td>149.00 (378.64)</td>
<td>27.00 x 148.00 (685.8 x 375.92)</td>
</tr>
</tbody>
</table>

**END VIEW**

CABINET DEPTH

51.75 (131.43)

25.00 (63.5)

**NOTES:**

- AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT OBSTRUCTED WHEN REFLECTED 20° TO EITHER SIDE OF E.
- 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.
- LETTER "A" IN MODEL NUMBER DESIGNATES STEAM HEATER UNIT.
- DIMENSIONS IN INCHES (CENTIMETERS).

**PROJECT**

**LOCATION**

**ARCHITECT**

**ENGINEER**

**REV.**

**Berner International Corp.**

**5K5Q**

**Title:** MODEL ARC16 AIR CURTAIN STEAM HEATED SYSTEM

**Date:** 25-JULY-2016

BY: S. Be1

**Replaces:** 25-EPT-14

BY: S. Be1