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

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

**Model Number Configuration**

<table>
<thead>
<tr>
<th>MODEL NUMBER CONFIGURATION</th>
<th>ARC16-1 036 S A -R-WCA-SS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Series</strong></td>
<td>ARC16</td>
</tr>
<tr>
<td><strong># of Motors</strong></td>
<td>1, 2, 3, 4</td>
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<tr>
<td><strong>Opening Width</strong></td>
<td>036'' - 144''</td>
</tr>
<tr>
<td><strong>Heat</strong></td>
<td>S=Steam Heated</td>
</tr>
<tr>
<td><strong>Voltage</strong></td>
<td><em>A=120/1/60, B=208/1/60, J=240/1/60, Z=480/3/60, O=600/3/60, V=220/1/50, O=380/3/50</em></td>
</tr>
<tr>
<td><strong>Opt. Display</strong></td>
<td>R=Remote Display, Intelliswitch, WCA=Wi-Fi Controller, Berner App</td>
</tr>
<tr>
<td><strong>Opt. Control</strong></td>
<td>SS=Stainless Steel, CC=Custom Color</td>
</tr>
<tr>
<td><strong>Opt. Cabinet Finish</strong></td>
<td>for Standard offering, leave options (Opt.) blank</td>
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</tbody>
</table>

**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

*Suitable for 50Hz

*Sound data is not AMCA certified.

Berner reserves the right to alter specifications without prior notice.

**For Standard offering, leave options (Opt.) blank**
### Electrical Performance Sheet

#### ARCHITECTURAL RECESSED 16
Steam Heated Air Curtain

<table>
<thead>
<tr>
<th>MODEL</th>
<th># CKTS</th>
<th>AMPs PER CIRCUIT</th>
<th>BREAKER RATING PER CIRCUIT</th>
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</table>

#### Notes:
- MOTOR AMP DRAW = 12.6 each for 120/1/60 (voltage code A)
- MOTOR AMP DRAW = 6.5 each for 208/1/60 (voltage code B)
- MOTOR AMP DRAW = 6.5 each for 240/1/60 (voltage code J) or 220/1/50 (voltage code V)
- MOTOR AMP DRAW = 3.2 each for 480/3/60 (voltage code Z)
- MOTOR AMP DRAW = 2.0 each for 600/3/60 (voltage code Q)
- MOTOR AMP DRAW = 4.3 each for 380/3/50 (voltage code O)

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**EP-254**
October, 2016
ARC 16
IN-CEILING MOUNT
STEAM HEATED

TOP VIEW
MOUNTING WIDTH = "W"

1/2" THREAD INSERT FOR TOP MOUNTING (4 TYP)

1000 [254] TYPICAL FLANGE ALL AROUND CABINET

FRONT VIEW
CABINET WIDTH = "W"

STEAM SUPPLY 1250 M.P.T.
STEAM RETURN 1250 M.P.T.

TYPICAL FLANGE 1390
[348] 1/2"

END VIEW
CABINET DEPTH 26.000
[660.4]

NOTE:
AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT OBSTRUCTED WHEN REFLECTED 20° TO EITHER SIDE OF E.

NOTE:
ELECTRICAL CONNECTIONS TO BE FLEXIBLE.

FIELD INSTALL TILTED (TYP BY BERNER)

HINGE, REMOVABLE ACCESS PANEL W/ RELEASABLE POLYESTER FILTER

NOTES:
ANCHORS TO SUPPORTING STRUCTURE BY OTHERS.

ADEQUACY OF SUPPORTING STRUCTURE IS TO BE VERIFIED BY A PROFESSIONAL STRUCTURAL ENGINEER.

LETTER "X" IN MODEL NUMBER DESIGNATES STEAM HEATER UNIT.

DIMENSIONS IN INCHES (CENTIMETERS).

NOTES:
FLANGE WIDTH = "W"

ADJUSTABLE NOZZLE VANES

LOCKING SCREWS (TYP)

INTELLISWITCH INTERFACE

NOZZLE WIDTH = "W"

FLANGE WIDTH = "W"

CABINET WIDTH = "W"

MODEL | NOZZLE WIDTH "W" | MOUNTING WIDTH "W" | CABINET WIDTH "W" | FLANGE WIDTH "W" | RECOMMENDED ROUGH OPENING DEPTH x WIDTH
---|---|---|---|---|---
ARC-16-1036S | 32.00 (813.0) | 15.50 (393.7) | 39.00 (99.0) | 37.00 (94.5) | 27.00 x 42.00 (685.8 x 1066.8) |
ARC-16-1424S | 40.00 (1016.0) | 15.50 (393.7) | 40.00 (1016.0) | 39.00 (99.0) | 27.00 x 42.00 (685.8 x 1066.8) |
ARC-16-1428S | 40.00 (1016.0) | 15.50 (393.7) | 40.00 (1016.0) | 39.00 (99.0) | 27.00 x 42.00 (685.8 x 1066.8) |
ARC-16-2072S | 72.00 (1828.8) | 15.50 (393.7) | 72.00 (1828.8) | 71.00 (1803.4) | 27.00 x 70.00 (685.8 x 1778.0) |
ARC-16-2084S | 84.00 (2133.6) | 15.50 (393.7) | 84.00 (2133.6) | 83.00 (2099.6) | 27.00 x 80.00 (685.8 x 2032.0) |
ARC-16-2096S/3096S | 96.00 (2438.4) | 15.50 (393.7) | 96.00 (2438.4) | 95.00 (2413.0) | 27.00 x 100.00 (685.8 x 2540.0) |
ARC-16-3096S/3100S | 108.00 (2743.2) | 15.50 (393.7) | 108.00 (2743.2) | 107.00 (2717.6) | 27.00 x 120.00 (685.8 x 3048.0) |
ARC-16-3072S/3120S | 117.00 (2968.8) | 15.50 (393.7) | 117.00 (2968.8) | 116.00 (2946.1) | 27.00 x 120.00 (685.8 x 3048.0) |
ARC-16-3120S | 138.00 (3498.8) | 15.50 (393.7) | 138.00 (3498.8) | 137.00 (3478.7) | 27.00 x 150.00 (685.8 x 3810.0) |
ARC-16-3144S/4144S | 144.00 (365.8) | 15.50 (393.7) | 144.00 (365.8) | 143.00 (362.4) | 27.00 x 148.00 (685.8 x 3759.0) |

ENGINEER

ARCHITECT

LOCATION

DATE

REPLACES

REV

PROJECT

MODEL ARC-16-STEAM HEATED SYSTEM

BY S. BEI

BERNER INTERNATIONAL CORP.