For Mounting Heights To 10' (environmental separation)

**STANDARD CONSTRUCTION**
- 12 ¼" high x 21 ¼" deep
- 1/2 hp motor(s) - ten speeds
- Factory installed Intelliswitch digital controller
- Clear satin anodized aluminum exterior
  (Optional: Custom Color or Stainless)
- Wall & Top Mounting
- High efficiency, low noise Pro-V Nozzle
- Factory installed coil
- Optional: 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.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Nozzle Width (in)</th>
<th>Max Vel. at Nozzle (fpm)</th>
<th>Avg. Outlet Vel. (fpm)</th>
<th>Air Volume (cfm)</th>
<th>Outlet Vel. Uniformity (%)</th>
<th>Power Rating (kW)</th>
<th>Motor(s) @ hp</th>
<th>Coil Output (MBH)</th>
<th>Inlet Pressure (PSIG)</th>
<th>Condensate (lbs/hr)</th>
<th>Air Temp. Rise (°F)</th>
<th>Net Wt. (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHD10-1036S</td>
<td>36.75</td>
<td>6,556</td>
<td>2,183</td>
<td>1,393</td>
<td>87%</td>
<td>0.53</td>
<td>1 @ ½</td>
<td>56.5</td>
<td>5</td>
<td>58.2</td>
<td>37°</td>
<td>98</td>
</tr>
<tr>
<td>AHD10-1042S</td>
<td>42.75</td>
<td>7,182</td>
<td>1,929</td>
<td>1,432</td>
<td>68%</td>
<td>0.54</td>
<td>1 @ ½</td>
<td>62.4</td>
<td>5</td>
<td>64.3</td>
<td>40°</td>
<td>104</td>
</tr>
<tr>
<td>AHD10-1048S</td>
<td>48.75</td>
<td>6,600</td>
<td>1,718</td>
<td>1,454</td>
<td>57%</td>
<td>0.55</td>
<td>1 @ ½</td>
<td>67.5</td>
<td>5</td>
<td>69.6</td>
<td>43°</td>
<td>109</td>
</tr>
<tr>
<td>AHD10-2060S</td>
<td>60.75</td>
<td>7,300</td>
<td>2,011</td>
<td>2,121</td>
<td>76%</td>
<td>0.84</td>
<td>2 @ ½</td>
<td>92.2</td>
<td>5</td>
<td>95.0</td>
<td>40°</td>
<td>171</td>
</tr>
<tr>
<td>AHD10-2072S</td>
<td>74.50</td>
<td>6,556</td>
<td>2,154</td>
<td>2,786</td>
<td>87%</td>
<td>1.06</td>
<td>2 @ ½</td>
<td>117.3</td>
<td>5</td>
<td>120.9</td>
<td>39°</td>
<td>182</td>
</tr>
<tr>
<td>AHD10-2084S</td>
<td>86.50</td>
<td>7,182</td>
<td>1,907</td>
<td>2,864</td>
<td>68%</td>
<td>1.08</td>
<td>2 @ ½</td>
<td>128.7</td>
<td>5</td>
<td>132.7</td>
<td>41°</td>
<td>198</td>
</tr>
<tr>
<td>AHD10-2096S</td>
<td>98.50</td>
<td>6,600</td>
<td>1,701</td>
<td>2,908</td>
<td>57%</td>
<td>1.10</td>
<td>2 @ ½</td>
<td>138.5</td>
<td>5</td>
<td>142.8</td>
<td>44°</td>
<td>209</td>
</tr>
<tr>
<td>AHD10-3108S</td>
<td>112.25</td>
<td>6,556</td>
<td>2,144</td>
<td>4,179</td>
<td>87%</td>
<td>1.59</td>
<td>3 @ ½</td>
<td>178.9</td>
<td>5</td>
<td>184.4</td>
<td>40°</td>
<td>241</td>
</tr>
<tr>
<td>AHD10-3120S</td>
<td>118.25</td>
<td>6,556</td>
<td>2,055</td>
<td>4,218</td>
<td>68%</td>
<td>1.60</td>
<td>3 @ ½</td>
<td>184.6</td>
<td>5</td>
<td>190.3</td>
<td>40°</td>
<td>249</td>
</tr>
</tbody>
</table>

**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.
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 or vertically mounted units.

*See sheet EP-214 for amp draws/total load requirements.*

**MODEL NUMBER CONFIGURATION**
**AHD10-1 036 S A -R-WCA-SS**

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>AHD10</td>
<td>1, 2, 3</td>
<td>036” - 120”</td>
<td>S=Steam Heated</td>
<td>*A=120/1/60 B=208/1/60 J=240/1/60 V=220/1/50</td>
<td>R=Remote Display</td>
<td>WCA=Wi-Fi Controller</td>
<td>SS=Stainless Steel CC=Custom Color</td>
</tr>
</tbody>
</table>

**VELOCITY PROJECTION:** **Model AHD10-1036S**

- Distance from Nozzle (in): 40, 80, 120, 160, 200
- Core Velocity (fpm): 2511, 1689, 1500, 1189, 1056
- Uniformity (%): 94, 96, 92, 93, 93

Sound level measured 10’ (3m) from the unit in free field:
- 1 motor: Min./Max. Speed: 53/56 dBA
- 2 motors: Min./Max. Speed: 56/59 dBA
- 3 motors: Min./Max. Speed: 59/62 dBA

Sound data is not AMCA certified.

Berner reserves the right to alter specifications without prior notice.
## ARCHITECTURAL HIGH PERFORMANCE 10
Steam Heated Air Curtain
Electrical Performance Sheet

<table>
<thead>
<tr>
<th>MODEL</th>
<th># CKTS</th>
<th>AMPS PER CIRCUIT</th>
<th>BREAKER RATING PER CIRCUIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHD10-1036S</td>
<td>1</td>
<td>8.5</td>
<td>15</td>
</tr>
<tr>
<td>AHD10-1042S</td>
<td>1</td>
<td>8.5</td>
<td>15</td>
</tr>
<tr>
<td>AHD10-1048S</td>
<td>1</td>
<td>8.5</td>
<td>15</td>
</tr>
<tr>
<td>AHD10-2060S</td>
<td>1</td>
<td>17.0</td>
<td>20</td>
</tr>
<tr>
<td>AHD10-2072S</td>
<td>1</td>
<td>17.0</td>
<td>20</td>
</tr>
<tr>
<td>AHD10-2084S</td>
<td>1</td>
<td>17.0</td>
<td>20</td>
</tr>
<tr>
<td>AHD10-2096S</td>
<td>1</td>
<td>17.0</td>
<td>20</td>
</tr>
<tr>
<td>AHD10-3108S</td>
<td>1</td>
<td>25.5</td>
<td>30</td>
</tr>
<tr>
<td>AHD10-3120S</td>
<td>1</td>
<td>25.5</td>
<td>30</td>
</tr>
</tbody>
</table>

### 120/1/60 (voltage code A) MOTOR AMP DRAW = 8.5 each

### 208/1/60 (voltage code B) MOTOR AMP DRAW = 4.3 each

### 240/1/60 (voltage code J) or 220/1/50 (voltage code V) MOTOR AMP DRAW = 4.3 each

**Berner reserves the right to alter specifications without prior notice.**
AHD 10
STEAM HEATED

TOP VIEW

WALL MOUNTING PLATE

MOUNTING WIDTH - "C"

PERFORATED INTAKE SCREENS
W/ OPTIONAL FILTERS

FRONT VIEW
UNIT WIDTH - "B"

MOUNTING WIDTH - "C"

BOTTOM VIEW

REMOVABLE ACCESS PANEL
INTELLI-SWITCH

NOTES:

1. AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT
   OBSTRUCTED WHEN REFLECTED 90° TO EITHER SIDE OF CURTAIN.
2. ELECTRICAL CONNECTIONS TO BE FLEXIBLE.
3. FIELD VERIFY DIMENSIONS.
4. ANCHORS TO SUPPORTING STRUCTURE TO BE IN ACCORDANCE WITH
   LOCAL CODES.
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).

<table>
<thead>
<tr>
<th>MODEL</th>
<th>NOZZLE WIDTH &quot;A&quot;</th>
<th>UNIT WIDTH &quot;B&quot;</th>
<th>MOUNTING WIDTH &quot;C&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHD10-026S</td>
<td>36.75 (93.35)</td>
<td>37.75 (96.35)</td>
<td>9.00 (22.86)</td>
</tr>
<tr>
<td>AHD10-042S</td>
<td>42.75 (108.59)</td>
<td>43.75 (111.13)</td>
<td>9.00 (22.86)</td>
</tr>
<tr>
<td>AHD10-064S</td>
<td>48.75 (123.63)</td>
<td>49.75 (126.37)</td>
<td>10.00 (25.40)</td>
</tr>
<tr>
<td>AHD10-107S</td>
<td>63.75 (162.29)</td>
<td>64.75 (164.35)</td>
<td>10.00 (25.40)</td>
</tr>
<tr>
<td>AHD10-207S</td>
<td>74.50 (189.23)</td>
<td>75.50 (191.71)</td>
<td>12.00 (30.48)</td>
</tr>
<tr>
<td>AHD10-208S</td>
<td>86.00 (218.42)</td>
<td>87.00 (221.05)</td>
<td>12.00 (30.48)</td>
</tr>
<tr>
<td>AHD10-209S</td>
<td>98.00 (248.85)</td>
<td>99.00 (251.72)</td>
<td>27.00 (68.58)</td>
</tr>
<tr>
<td>AHD10-229S</td>
<td>112.25 (285.43)</td>
<td>113.25 (287.66)</td>
<td>27.00 (68.58)</td>
</tr>
<tr>
<td>AHD10-226S</td>
<td>118.25 (300.36)</td>
<td>119.25 (302.96)</td>
<td>27.00 (68.58)</td>
</tr>
</tbody>
</table>

LOCKING SCREW (TYP)

STEAM RETURN
100 M.P.T.

END VIEW

STEAM SUPPLY
100 M.P.T.

SILICON RUBBER
VIBRATION DAMPER

ART BOARD
MOUNTING HARDWARE (BY OTHERS)

LOCKING SCREWS BY BERNER

3/4" DIA. CLEARANCE FOR SCREEN REMOVAL

STAND PIPE
STEAM RETURN FLANGE

HINGED ACCESS PANEL (MUST
REMOVE SCREEN TO ACCESS)

ALUMINUM ACCESS PANEL

AIR FLOW

PROJECT
LOCATION
ARCHITECT
ENGINEER

REV. NO: AHD10-STM
TITLE: BERNER
DATE: 31 MAY 2017
BY: S. Belt
REPLACES: 31 MAR 2017
BERNER INTERNATIONAL CORP.
REV. D
S. Belt