**ARCHITECTURAL HIGH PERFORMANCE 10**

**Hot Water Heated Air Curtain**

**Data Sheet**

**November, 2022**

**www.berner.com**

**Berner International**

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**111 Progress Ave. / New Castle / PA / 16101 / USA**

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**For Mounting Heights To 10’ (environmental separation)**

**STANDARD CONSTRUCTION**

- 12 ¾’ high x 21 ¾’ deep
- 1/2 hp motor(s) - ten speeds
- Factory installed Intelliswitch digital controller
- Clear satin anodized aluminum exterior
- Wall & Top Mounting
- High efficiency, low noise Pro-V Nozzle
- Patented venturi open helical element with point suspension
- Factory installed coil

**OPTIONS**

- Custom Color or Stainless
- Filter (washable)
- Berner Air™ (smart controller & app, includes BACnet)
- Berner PureAir™ Package - consult factory

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

<table>
<thead>
<tr>
<th>Distance from Nozzle (in)</th>
<th>30</th>
<th>60</th>
<th>90</th>
<th>120</th>
<th>150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Velocity (fpm)</td>
<td>2511</td>
<td>1689</td>
<td>1500</td>
<td>1189</td>
<td>1056</td>
</tr>
<tr>
<td>Uniformity (%)</td>
<td>94</td>
<td>96</td>
<td>92</td>
<td>93</td>
<td>93</td>
</tr>
</tbody>
</table>

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.

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**MODEL NUMBER CONFIGURATION**

AHD10-1036W A -R-WCA-SS

Series

- AHD10

# of Motors

- 1, 2, 3

Opening Width

- 036" - 120"

Heat

- W=Hot Water Heated

Voltage

- *A=120/1/60
  B=208/1/60
  J=240/1/60
  V=220/1/50

Opt. Display

- R=Remote Display (intelliswitch)

Opt. Control

- WCA=Berner Air™ smart control

Opt. Cabinet Finish

- SS=Stainless Steel
  CC=Custom Color

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**Berner International Corporation 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 (hot water 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.**

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See sheet EP-216 for amp draws/total load requirements.
## Electrical Performance Sheet

**ARCHITECTURAL HIGH PERFORMANCE 10**

**Hot Water Heated Air Curtain**

### Electrical Specifications

**120/1/60 (voltage code A)**
- **Model:** AHD10-1036W
- **MOTOR AMP DRAW:** 8.5 each
- **# CKTS:** 1
- **AMPS PER CIRCUIT:** 8.5
- **BREAKER RATING PER CIRCUIT:** 15

**Model:** AHD10-1042W
- **MOTOR AMP DRAW:** 4.3 each
- **# CKTS:** 1
- **AMPS PER CIRCUIT:** 4.3
- **BREAKER RATING PER CIRCUIT:** 15

**Model:** AHD10-1048W
- **MOTOR AMP DRAW:** 4.3 each
- **# CKTS:** 1
- **AMPS PER CIRCUIT:** 4.3
- **BREAKER RATING PER CIRCUIT:** 15

**208/1/60 (voltage code B)**
- **Model:** AHD10-2060W
- **MOTOR AMP DRAW:** 8.6 each
- **# CKTS:** 1
- **AMPS PER CIRCUIT:** 17.0
- **BREAKER RATING PER CIRCUIT:** 25

**Model:** AHD10-2072W
- **MOTOR AMP DRAW:** 8.6 each
- **# CKTS:** 1
- **AMPS PER CIRCUIT:** 8.6
- **BREAKER RATING PER CIRCUIT:** 15

**Model:** AHD10-2084W
- **MOTOR AMP DRAW:** 8.6 each
- **# CKTS:** 1
- **AMPS PER CIRCUIT:** 8.6
- **BREAKER RATING PER CIRCUIT:** 15

**Model:** AHD10-2096W
- **MOTOR AMP DRAW:** 8.6 each
- **# CKTS:** 1
- **AMPS PER CIRCUIT:** 8.6
- **BREAKER RATING PER CIRCUIT:** 15

**240/1/60 (voltage code J) or 220/1/50 (voltage code V)**
- **Model:** AHD10-3108W
- **MOTOR AMP DRAW:** 12.9 each
- **# CKTS:** 1
- **AMPS PER CIRCUIT:** 25.5
- **BREAKER RATING PER CIRCUIT:** 35

**Model:** AHD10-3120W
- **MOTOR AMP DRAW:** 12.9 each
- **# CKTS:** 1
- **AMPS PER CIRCUIT:** 12.9
- **BREAKER RATING PER CIRCUIT:** 20

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AHD 10
HOT WATER HEATED

NOTES:
- Air curtain must be installed so air stream is not obstructed when reflector is to either side of unit.
- Electrical connections to be flexible.
- Field verify dimensions.
- Anchors to supporting structure to be flexible.
- Adequacy of supporting structure to be verified by a professional structural engineer.
- Letter "W" in model number designates hot water heated unit.
- Dimensions in inches (centimeters).

<table>
<thead>
<tr>
<th>MODEL</th>
<th>NOZZLE WIDTH</th>
<th>UNIT WIDTH</th>
<th>MOUNTING WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHD10-0036W</td>
<td>36.75 (93.35)</td>
<td>37.75 (95.89)</td>
<td>8.00 (20.32)</td>
</tr>
<tr>
<td>AHD10-0042W</td>
<td>42.75 (108.49)</td>
<td>43.75 (111.13)</td>
<td>8.00 (20.32)</td>
</tr>
<tr>
<td>AHD10-0048W</td>
<td>48.75 (123.63)</td>
<td>49.75 (126.41)</td>
<td>10.00 (25.40)</td>
</tr>
<tr>
<td>AHD10-0055W</td>
<td>58.75 (149.35)</td>
<td>61.75 (156.85)</td>
<td>8.00 (20.32)</td>
</tr>
<tr>
<td>AHD10-0065W</td>
<td>64.50 (163.83)</td>
<td>75.50 (191.71)</td>
<td>12.00 (30.48)</td>
</tr>
<tr>
<td>AHD10-0084W</td>
<td>86.50 (219.41)</td>
<td>87.50 (222.25)</td>
<td>12.00 (30.48)</td>
</tr>
<tr>
<td>AHD10-0099W</td>
<td>98.50 (249.92)</td>
<td>99.50 (252.77)</td>
<td>27.00 (68.58)</td>
</tr>
<tr>
<td>AHD10-0128W</td>
<td>112.50 (285.73)</td>
<td>113.50 (293.66)</td>
<td>27.00 (68.58)</td>
</tr>
<tr>
<td>AHD10-0158W</td>
<td>118.75 (301.36)</td>
<td>119.75 (303.90)</td>
<td>27.00 (68.58)</td>
</tr>
</tbody>
</table>