**ARCHITECTURAL ICON 8**
Steam Heated Air Curtain
Data Sheet

**Recommended for Mounting Heights to 8’ (environmental separation) and 7’ (insect control)**

**STANDARD CONSTRUCTION**
- 8 ¼” high x 16” deep
- 1/5 hp motor(s) - ten speeds
- Factory installed Intelliswitch™ digital controller
- Clear satin anodized aluminum exterior
- Wall or Top Mounting
- High efficiency, low noise, articulating, three vane, Pro-V Nozzle
- Factory installed coil
- Filter (washable)

**OPTIONS**
- 1/5 hp EC motor(s) - ten speeds
- Custom Color or Stainless
- Rear cover for top mounting to conceal fasteners
- Berner AIR™ (smart controller & app, includes BACnet)

**Energy Codes ASHRAE 90.1-2019, IEEE 2018, and ASHRAE 189.1 vestibule exception validated by AMCA certification.**
Refer to Velocity Projection Chart below for information.

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.

**NOTES:**
1. Standard connection same end supply/return.
2. Coil should be field supplied with a solenoid/control valve that energizes only when air curtain is energized.
   Consideration must be taken for freeze protection when necessary.
3. Coil performance based on 65°F entering air temperature.
4. Maximum leaving air temperature shall not exceed 120°F.
5. Consult factory for alternate steam pressures.
6. Operation of standard motor (AC) at 50Hz will generate a 17% reduction in performance; no reduction for optional EC motors.

**SOUND LEVEL MEASURED 10’ (3m) from the unit in free field:**
1 motor: Min./Max. Speed: 50/55 dBA
2 motors: Min./Max. Speed: 53/58 dBA

Sound data is not AMCA certified.

### MODEL NUMBER CONFIGURATION

MODEL NUMBER

| AI08-E-1 036 S A-AC-WCA -SS |

**VELOCITY PROJECTION:** Model AI08-E-1036S

**Distance from Nozzle (in)**: 40, 80, 120
**Core Velocity (fpm)**: 859, 588, 547
**Uniformity (%):** 89%, 87%, 91%

ASHRAE 90.1-2019 vestibule exception requires, “a jet velocity of not less than 6.6 feet per second (400 fpm, 2.0 m/s) at 6.0 in (15 cm) above the floor.”

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## ARCHITECTURAL ICON 8 - AC MOTORS

**Steam Heated Air Curtain**

**Electrical Performance Sheet**

**Model Specifications**

<table>
<thead>
<tr>
<th>MODEL</th>
<th># CKTS</th>
<th>AMPS PER CIRCUIT</th>
<th>BREAKER RATING PER CIRCUIT</th>
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**Motor Amp Draw**

- **120/1/60 (voltage code A)**: MOTOR AMP DRAW = 3.4 each
- **208/1/60 (voltage code B)**: MOTOR AMP DRAW = 1.7 each
- **240/1/60 (voltage code J) or 220/1/50 (voltage code V)**: MOTOR AMP DRAW = 1.7 each

**Transformer Information**

- **600/3/60 (voltage code A-XI)**: Transformer 600/120 0.5kVA per MTR @ 0.8 each
- **Motor Amp Draw**: 3.4 each @ 120V

**Additional Notes**

- **MOTOR AMP DRAW = 3.4 each @ 120V**

**Contact Information**

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

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**120/1/60 (voltage code A) MOTOR AMP DRAW = 4.4 each**

**208/1/60 (voltage code B) MOTOR AMP DRAW = 2.5 each**

**240/1/60 (voltage code J) or 220/1/50 (voltage code V) MOTOR AMP DRAW = 2.5 each**

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**600/3/60 (voltage code A-XI)**

**277/1/60 (voltage code W)**

XFMR 600/120 0.5kVA per MTR @0.8 each
MOTOR AMP DRAW = 4.4 each @ 120V

MOTOR AMP DRAW = 2.2 each

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AI08-E STEAM HEATED SYSTEM: 120 - 277V

TOP VIEW

- Mounting Width: "A"
- Wall Mounting Bracket
- Unit Wall Mounting Bracket and Spacers are Removable for Top Mounting
- Power Supply - LH Standard
- Wiring Compartment Cover (Typ)
- Intake Screen Screws (Typ)
- Perforated Intake Screen(s)
- W/Alumimum Re-Cleanable Filter(s)
- Antenna for Optional WiFi
- Housing for Optional Lockable Disconnect

BOTTOM VIEW

- Intelliswitch Display
- Nozzle Width: "A"
- Adjustable Nozzle Vanes

FRONT VIEW

- Unit Width: "C"
- Unit Depth: 4.75 [120]
- Unit Height: 2.38 [60.5]

END VIEW

- Air Flow
- Hinged Removable Bottom Cover
- Unit Wall Mount Bracket Wall Spacer
- Rear Decorative Cover Replaces Wall Bracket (Optional)

NOTES:

- Air Curtain must be installed so air stream is not obstructed when deflected 20° to either side of ξ.
- 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.
- The last character in the model number – "S" Designates Steam Heated Unit.
- Dimensions in inches (centimeters).
- Coil connections RH standard (as shown), optional LH.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>NOZZLE WIDTH &quot;A&quot;</th>
<th>MOUNTING WIDTH &quot;B&quot;</th>
<th>UNIT WIDTH &quot;C&quot;</th>
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