

ARCHITECTURAL ELITE 8

Hot Water Heated Air Curtain
Data Sheet

For Mounting Heights To 8' (environmental separation) STANDARD CONSTRUCTION

- 11" high x 23" deep
- 1/5 hp EC motor(s)
- Intelliswitch™ digital controller ten speeds
- Berner AIR™: Wireless Controller and App
- · Cabinet: Brushed Stainless Steel, Grade 304 or better
- Bottom Panel: Clear satin anodized aluminum (Optional: White Aluminum, Custom Color or Stainless)
- Wall or Top Mounting
- · High efficiency, low noise, articulating Pro-V Nozzle
- · Filter (washable)
- Factory installed coil
- · Optional: Rear cover for top mounting to conceal fasteners

Energy Codes ASHRAE 90.1-2019, IECC 2018, and ASHRAE 189.1 vestibule exception validated by AMCA certification.

Refer to Velocity Projection Chart below for information.



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 (unheated) 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.

2 Year Limited Warranty









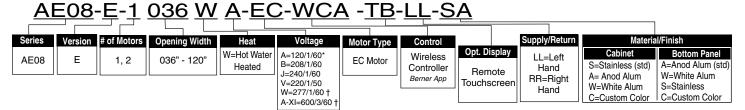
| MODEL | Nozzle Width (in) | Max Vel. at Nozzle (fpm) | Avg. Outlet Vel. (fpm) | Air Volume (cfm) | Outlet Vel. Uniformity | . iuiiig | Motor(s) @ hp | Coil Output (MBH) | Entering / Leaving Water Temp. (°F) | Water Flow (GPM) | Fluid Pressure Drop (FT. WG.) | Air Temp. Rise (°F) | Net Wt. (lbs) |
|--------------|-------------------------|-----------------------------------|---------------------------------|------------------------|------------------------------|----------|------------------|-------------------------|--|------------------------|--|------------------------------|---------------------|
| AE08-E-1036W | 36.00 | 2,245 | 1,584 | 891 | 52% | 0.24 | 1 @ 1/5 | 27.4 | 180° / 166° | 4.0 | 1.3 | 28° | 72 |
| AE08-E-1042W | 42.00 | 2,150 | 1,641 | 1,077 | 54% | 0.30 | 1 @ 1/5 | 33.8 | 180° / 166° | 5.0 | 2.1 | 29° | 82 |
| AE08-E-1048W | 48.00 | 2,228 | 1,681 | 1,261 | 58% | 0.34 | 1 @ 1/5 | 38.8 | 180° / 164° | 5.0 | 2.1 | 28° | 91 |
| AE08-E-1060W | 60.00 | 2,175 | 1,582 | 1,483 | 53% | 0.42 | 1 @ 1/5 | 46.7 | 180° / 161° | 5.0 | 2.2 | 29° | 111 |
| AE08-E-1072W | 72.00 | 1,865 | 1,767 | 1,988 | 75% | 0.47 | 1 @ 1/5 | 61.8 | 180° / 162° | 7.0 | 4.4 | 28° | 133 |
| AE08-E-2084W | 84.00 | 2,150 | 1,641 | 2,154 | 54% | 0.60 | 2 @ 1/5 | 69.0 | 180° / 160° | 7.0 | 4.6 | 29° | 160 |
| AE08-E-2096W | 96.00 | 2,228 | 1,681 | 2,522 | 58% | 0.68 | 2 @ 1/5 | 82.4 | 180° / 161° | 9.0 | 7.8 | 30° | 180 |
| AE08-E-2108W | 108.00 | 2,228 | 1,626 | 2,744 | 53% | 0.76 | 2 @ 1/5 | 90.4 | 180° / 159° | 9.0 | 8.0 | 30° | 199 |
| AE08-E-2120W | 117.00 | 2,175 | 1,622 | 2,966 | 53% | 0.84 | 2 @ 1/5 | 98.9 | 180° / 160° | 10.0 | 10.1 | 30° | 214 |

See sheet EP-226E for amp draws/total load requirements.

600/3/60 & 277/1/60 power supplies include extended cabinet, See drawing AE08-E-HW-TR. NOTES:

- 1. Standard connection top, same end supply/return.
- 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.
- 3. Coil performance based on 65°F entering air temperature.
- 4. Maximum leaving air temperature shall not exceed 120F.
- 5. Consult factory for alternate entering air & water temperatures or GPM's.

MODEL NUMBER CONFIGURATION



*Suitable for 50hz † Add 5" to cabinet width for transformer

Sound level measured 10' (3m) from the unit in free field:

1 motor: Min./Max. Speed: 50/53 dBA 2 motors: Min./Max. Speed: 50/53 dBA

Sound data is not AMCA certified.

 VELOCITY PROJECTION: Model AE08-E-1036W

 Distance from Nozzle (in)
 40
 80
 120

 Core Velocity (fpm)
 1308
 957
 772

 Uniformity (%)
 68
 85
 90

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

Berner reserves the right to alter specifications without prior notice.



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Hot Water Heated Air Curtain Electrical Performance Sheet

| | | 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 | |
|--|-----------|--|-------------------------------|-----------|---|-------------------------------|-----------|--|-------------------------------|
| MODEL | # CKTS | AMPS PER CIRCUIT | BREAKER RATING PER CIRCUIT | # CKTS | AMPS PER CIRCUIT | BREAKER RATING PER CIRCUIT | # CKTS | AMPS PER CIRCUIT | BREAKER RATING PER CIRCUIT |
| AE08-E-1036W AE08-E-1042W AE08-E-1048W AE08-E-1060W AE08-E-1072W | 1 | 4.4 | 15 | 1 | 2.5 | 15 | 1 | 2.5 | 15 |
| AE08-E-2084W AE08-E-2096W AE08-E-2108W AE08-E-2120W | 1 | 8.8 | 15 | 1 | 5.0 | 15 | 1 | 5.0 | 15 |
| | | 277/1/60 (voltage code W) MOTOR AMP DRAW = 2.2 each | | | 600/3/60 (voltag XFMR 600/120 0.5kVA MOTOR AMP DRAW | per MTR @0.8 each | | | |
| MODEL | # CKTS | AMPS PER CIRCUIT | BREAKER RATING PER CIRCUIT | # CKTS | AMPS PER CIRCUIT | BREAKER RATING PER CIRCUIT | | | |
| AE08-E-1036W AE08-E-1042W AE08-E-1048W AE08-E-1060W AE08-E-1072W | 1 | 2.2 | 15 | 1 | 0.8 | 15 | | | |
| AE08-E-2084W AE08-E-2096W AE08-E-2108W AE08-E-2120W | 1 | 4.4 | 15 | 1 | 1.7 | 15 | | | |

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