



# ARCHITECTURAL CONTOUR 8

## Hot Water Heated Air Curtain

### Data Sheet

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

#### STANDARD CONSTRUCTION

- 8 1/4" high x 20" 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, IECC 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 here-in 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.

2 Year  
Limited  
Warranty



| MODEL        | Nozzle Width (in) | Max Vel. at Nozzle (fpm) | Avg. Outlet Vel. (fpm) | Air Volume (cfm) | Outlet Vel. Uniformity | Power Rating (kW) | 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) |
|--------------|-------------------|--------------------------|------------------------|------------------|------------------------|-------------------|---------------|-------------------|-------------------------------------|------------------|-------------------------------|---------------------|---------------|
| AC08-E-1036W | 36.00             | 2,054                    | 1,545                  | 869              | 84%                    | 0.19              | 1 @ 1/5       | 27.1              | 180° / 166°                         | 4.0              | 1.3                           | 29°                 | 63            |
| AC08-E-1042W | 42.00             | 1,985                    | 1,547                  | 1,015            | 82%                    | 0.20              | 1 @ 1/5       | 32.9              | 180° / 166°                         | 5.0              | 2.1                           | 30°                 | 71            |
| AC08-E-1048W | 48.00             | 2,013                    | 1,585                  | 1,189            | 80%                    | 0.23              | 1 @ 1/5       | 37.9              | 180° / 164°                         | 5.0              | 2.1                           | 29°                 | 78            |
| AC08-E-1060W | 59.00             | 2,040                    | 1,552                  | 1,431            | 80%                    | 0.26              | 1 @ 1/5       | 46.0              | 180° / 161°                         | 5.0              | 2.2                           | 29°                 | 94            |
| AC08-E-1072W | 72.00             | 1,928                    | 1,394                  | 1,568            | 83%                    | 0.28              | 1 @ 1/5       | 55.8              | 180° / 164°                         | 7.0              | 4.4                           | 32°                 | 112           |
| AC08-E-2078W | 78.00             | 2,054                    | 1,546                  | 1,884            | 82%                    | 0.39              | 2 @ 1/5       | 62.8              | 180° / 162°                         | 7.0              | 4.5                           | 30°                 | 114           |
| AC08-E-2084W | 84.00             | 1,985                    | 1,547                  | 2,030            | 82%                    | 0.41              | 2 @ 1/5       | 67.3              | 180° / 160°                         | 7.0              | 4.6                           | 30°                 | 139           |
| AC08-E-2096W | 96.00             | 2,013                    | 1,585                  | 2,378            | 80%                    | 0.46              | 2 @ 1/5       | 80.4              | 180° / 162°                         | 9.0              | 7.8                           | 31°                 | 154           |
| AC08-E-2108W | 108.00            | 2,040                    | 1,553                  | 2,620            | 80%                    | 0.49              | 2 @ 1/5       | 88.6              | 180° / 160°                         | 9.0              | 8.0                           | 31°                 | 170           |
| AC08-E-2120W | 118.00            | 2,040                    | 1,552                  | 2,862            | 80%                    | 0.53              | 2 @ 1/5       | 97.8              | 180° / 160°                         | 10.0             | 10.1                          | 31°                 | 185           |

See sheet EP-266E-AC & EP-266E-EC for amp draws/total load requirements.

600/3/60 power supply includes transformer housing, See drawing AC08-E-WTR-600

#### NOTES:

- 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.
- Coil performance based on 65°F entering air temperature.
- Maximum leaving air temperature shall not exceed 120°F.
- Consult factory for alternate entering air & water temperatures or GPM's.
- Operation of standard motor (AC) at 50Hz will generate a 17% reduction in performance; no reduction for optional EC motors.

## MODEL NUMBER CONFIGURATION

AC08-E-1 036 W A-AC-WCA-SS

| Series | Version | # of Motors | Opening Width | Heat               | Voltage  | Motor Type                               | Opt. Control                   | Opt. Cabinet Finish                   |
|--------|---------|-------------|---------------|--------------------|--|--|--------------------------------|---------------------------------------|
| AC08   | E       | 1, 2        | 036" - 120"   | W=Hot Water Heated | <b>AC &amp; EC motors</b><br>A = 120/1/60*<br>B = 208/1/60<br>J = 240/1/60<br>V = 220/1/50<br>A-XI = 600/3/60 †<br><b>EC motors only</b><br>W = 277/1/60 | AC= Standard Motor<br>EC= Optional Motor | WCA= Berner AIR™ smart control | SS=Stainless Steel<br>CC=Custom Color |

for Standard offering, leave options (Opt.) blank

\*Suitable for 50 Hz  
† Add 5" for transformer housing

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.

| VELOCITY PROJECTION: Model AC08-E-1036W |     |     |     |
|---|-----|-----|-----|
| 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."

Berner reserves the right to alter specifications without prior notice.

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