



# ARCHITECTURAL ELITE 10

## Hot Water Heated Air Curtain

### Data Sheet

For Mounting Heights To 10' (environmental separation)

#### STANDARD CONSTRUCTION

- 14 1/2" high x 28 1/4" deep
- 1/2 hp EC motor(s)
- Intelliswitch™ digital controller - ten speeds
- Berner AIR™ (smart controller & app) includes BACnet
- 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.



2 Year Limited Warranty



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 (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.

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)
AE10-E-1036W	36.00	3,522	1,916	1,317	80%	0.49	1 @ 1/2	33.2	180°/163°	4.0	0.5	23°	125
AE10-E-1042W	42.00	3,429	1,709	1,371	82%	0.50	1 @ 1/2	36.8	180°/161°	4.0	0.5	25°	140
AE10-E-1048W	48.00	4,040	1,833	1,680	90%	0.63	1 @ 1/2	45.3	180°/161°	5.0	0.8	25°	156
AE10-E-1060W	59.00	4,146	1,541	1,736	85%	0.63	1 @ 1/2	55.1	180°/163°	7.0	1.6	29°	205
AE10-E-2072W	72.00	3,522	1,916	2,634	80%	0.98	2 @ 1/2	74.3	180°/161°	8.0	2.1	26°	239
AE10-E-2084W	84.00	3,429	1,709	2,742	82%	1.00	2 @ 1/2	81.4	180°/159°	8.0	2.2	27°	270
AE10-E-2096W	96.00	4,040	1,833	3,360	90%	1.26	2 @ 1/2	98.9	180°/160°	10.0	3.6	27°	302
AE10-E-2108W	108.00	4,146	1,656	3,416	85%	1.26	2 @ 1/2	106.9	180°/160°	11.0	4.5	29°	351
AE10-E-2120W	118.00	4,146	1,541	3,472	85%	1.26	2 @ 1/2	113.2	180°/161°	12.0	5.5	30°	374
AE10-E-3132W	132.00	4,040	1,855	4,677	80%	1.75	3 @ 1/2	140.7	180°/159°	14.0	7.7	27°	416
AE10-E-3144W	144.00	4,040	1,833	5,040	90%	1.89	3 @ 1/2	153.0	180°/159°	15.0	9.1	28°	447

See sheet EP-236E-EC for amp draws/total load requirements. 600/3/60 & 277/1/60 power supplies include extended cabinet, See drawing AE10-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 120F.
- Consult factory for alternate entering air & water temperatures or GPM's.

### MODEL NUMBER CONFIGURATION

**AE10-E-1 036 W A-EC-WCA -TB-LL-SA**

Series	Version	# of Motors	Opening Width	Heat	Voltage	Motor Type	Control	Opt. Display	Supply/Return	Material/Finish	
									Cabinet	Bottom Panel	
AE10	E	1, 2, 3, 4	036" - 144"	W=Hot Water Heated	A = 120/1/60* B = 208/1/60 J = 240/1/60 V = 220/1/50 W = 277/1/60 † A-XI = 600/3/60 †	EC Motor	WCA= Berner AIR™ smart control	Remote Touchscreen	LL=Left Hand RR=Right Hand	S=Stainless (std) A= Anod Alum C=Custom Color	A=Anod Alum (std) S=Stainless C=Custom Color

\*Suitable for 50 Hz  
† Add 12" to cabinet width for transformer

Distance from Nozzle (in)	40	80	120	160
Core Velocity (fpm)	1259	876	856	742
Uniformity (%)	83%	88%	92%	96%

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:	59/61 dBA

Sound data is not AMCA certified.

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.