ARCHITECTURAL CONTOUR 8 Hot Water Heated Air Curtain Data Sheet

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.

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

STANDARD CONSTRUCTION

- 8 ¼" 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)



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)		Fluid Pressure Drop (FT. WG.)	Air Temp. Rise (°F)	Net Wt. (Ibs)
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-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	97.4	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:

1. Standard connection top, same end supply/return.

2. 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.

6. Operation of standard motor (AC) at 50Hz will generate a 17% reduction in performance; no reduction for optional EC motors.

MODEL NUMBER CONFIGURATION 08-E-1 036 W A-AC-WCA -SS Voltage Motor Type # of Motors **Opening Width** Series Version Heat Opt. Control Opt. Cabinet Finish AC & EC motors W=Hot Water AC= Standard Е 036" - 120" AC08 1, 2 A = 120/1/60* WCA= Heated SS=Stainless Steel Motor B = 208/1/60Berner FC= Optional CC=Custom Color J = 240/1/60AIR™ Motor V = 220/1/50smart control A-XI = 600/3/60 † for Standard offering, leave options (Opt.) blank EC motors only W = 277/1/60*Suitable for 50 Hz † Add 5" for transformer VELOCITY PROJECTION: Model AC08-E-1036W housing Distance from Nozzle (in) 40 80 120 547 Core Velocity (fpm) 859 588 Sound level measured 10' (3m) from the unit in free field: 50/55 dBA 87% 1 motor: Min./Max. Speed: 89% Uniformity (%) 91% 2 motors: Min./Max. Speed: 53/58 dBA ASHRAE 90.1-2019 vestibule exception requires, "a jet velocity of not less Sound data is not AMCA certified. 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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111 Progress	Ave. / New Castle / PA / 16101 / USA

DS-266E September, 2023



ARCHITECTURAL CONTOUR 8 - AC MOTORS Hot Water Heated Air Curtain Electrical Performance Sheet

		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	
MODEL	# СКТS	AMPS PER CIRCUIT BREAKER RATING PER CIRCUIT # CKTS AMPS PER CIRCUIT BREAKER RATING PER CIRCUIT		# СКТS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT			
AC08-E-1036W AC08-E-1042W AC08-E-1048W AC08-E-1060W AC08-E-1072W	1	3.4	15	1	1.7	15	1	1.7	15
AC08-E-2084W AC08-E-2096W AC08-E-2108W AC08-E-2120W	1	6.8	15	1	3.4	15	1	3.4	15

		600/3/60 (voltag XFMR 600/120 0.5kVA MOTOR AMP DRAW =	per MTR @0.8 each		* Consult Factory 277/1/60 (voltage code W) MOTOR AMP DRAW = ?? each		
MODEL	# сктѕ	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# сктѕ	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	
AC08-E-1036W AC08-E-1042W AC08-E-1048W AC08-E-1060W AC08-E-1072W	1	0.8	15	*	*	*	
AC08-E-2084W AC08-E-2096W AC08-E-2108W AC08-E-2120W	1	1.6	15	*	*	*	

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ARCHITECTURAL CONTOUR 8 - EC MOTORS 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	# СКТS	AMPS PER CIRCUIT BREAKER RATING PER CIRCUIT BREAKER RATING PER CIRCUIT C		# СКТS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT			
AC08-E-1036W AC08-E-1042W AC08-E-1048W AC08-E-1060W AC08-E-1072W	1	4.4	15	1	2.5	15	1	2.5	15
AC08-E-2084W AC08-E-2096W AC08-E-2108W AC08-E-2120W	1	8.8	15	1	5.0	15	1	5.0	15

		600/3/60 (voltag XFMR 600/120 0.5kVA MOTOR AMP DRAW :	per MTR @0.8 each		277/1/60 (voltage code W) MOTOR AMP DRAW = 2.2 each			
MODEL	# сктѕ	AMPS PER CIRCUIT BREAKER RATING PER CIRCUIT		# сктѕ	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		
AC08-E-1036W AC08-E-1042W AC08-E-1048W AC08-E-1060W AC08-E-1072W	1	0.8	15	1	2.2	15		
AC08-E-2084W AC08-E-2096W AC08-E-2108W AC08-E-2120W	1	1.7	15	1	4.4	15		

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