



ARCHITECTURAL RECESSED 16

Electric Heated Air Curtain

Data Sheet

Vestibule Exception Compliance: up to 18 ft. AFF
Optimal Environmental Separation: up to 16 ft. AFF

2 Year
Limited
Warranty



indoor use



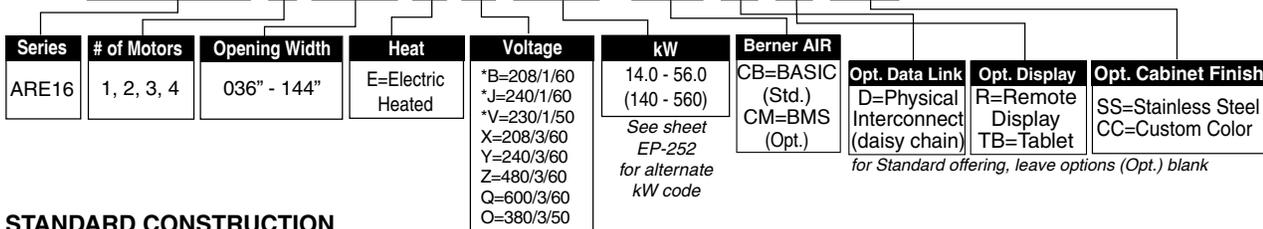
MODEL	Nozzle Width (in)	Max Vel. at Nozzle (fpm)	Avg. Outlet Vel. (fpm)	Air Volume (cfm)	Outlet Vel. Uniformity	Power Rating (kW)	Motor(s) @ hp	Max Electric Capacity (kW)	Heater Output (MBH)	Air Temp. Rise (°F)	Net Wt. (lbs)
ARE16-1036E	36.00	6,250	2,368	2,072	90%	0.91	1 @ 1	14.0	47.8	21°	108
ARE16-1042E	42.00	5,594	2,208	2,254	88%	0.96	1 @ 1	14.0	47.8	20°	115
ARE16-1048E	48.00	5,627	2,015	2,351	77%	1.09	1 @ 1	14.0	47.8	19°	121
ARE16-1060E	66.00	5,401	1,502	2,410	73%	1.12	1 @ 1	14.0	47.8	18°	141
ARE16-2060E	66.00	4,440	2,446	3,924	92%	1.79	2 @ 1	28.0	95.6	22°	185
ARE16-2072E	72.00	6,250	2,368	4,144	90%	1.82	2 @ 1	28.0	95.6	21°	195
ARE16-2078E	78.00	5,594	2,282	4,326	88%	1.87	2 @ 1	28.0	95.6	20°	202
ARE16-2084E	84.00	5,594	2,208	4,508	88%	1.92	2 @ 1	28.0	95.6	20°	208
ARE16-2096E	99.00	5,627	1,954	4,702	77%	2.18	2 @ 1	28.0	95.6	19°	219
ARE16-3096E	99.00	6,250	2,492	5,996	90%	2.70	3 @ 1	42.0	143.3	22°	265
ARE16-3108E	108.00	6,250	2,368	6,216	90%	2.73	3 @ 1	42.0	143.3	21°	293
ARE16-3120E	117.00	5,594	2,314	6,580	88%	2.83	3 @ 1	42.0	143.3	20°	305
ARE16-3132E	132.00	5,627	2,138	6,859	77%	3.01	3 @ 1	42.0	143.3	19°	317
ARE16-3144E	144.00	5,627	2,015	7,053	77%	3.27	3 @ 1	42.0	143.3	19°	328
ARE16-4144E	144.00	6,250	2,368	8,288	90%	3.64	4 @ 1	56.0	191.1	21°	390

NOTES:

- Operation at 50 Hz will generate approximately a 17% reduction in air performance.
 - Performance data based on AMCA licensed data from unheated units.
 - Single Point Power Connection – consult factory
- Berner does not recommend ARE16-1060E, exists only as an equivalent to competitors' models.*
See sheet EP-252 for amp draws/total load requirements and alternate kW.

MODEL NUMBER CONFIGURATION

ARE16-1 036 E B-140 -CB-D-R-SS



STANDARD CONSTRUCTION

- 15" high x 26" deep
- 1 hp AC motor(s) - two speeds
- Touchscreen interface with Intelliswitch™ digital controller, includes Berner AIR® BASIC (smart control)
- White aluminum bottom panel
- Top Mounting only
- High efficiency, low noise Pro-V Nozzle
- Patented venturi open helical element with point suspension
- Filter (washable)

OPTIONS

- Alternate kW: see sheet EP-252
- Berner AIR® BMS (smart control with BACnet and Modbus capabilities)
- Bottom panel finish: Custom Color or Stainless

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

1 motor:	Min./Max. Speed:	62/65 dBA
2 motors:	Min./Max. Speed:	65/68 dBA
3 motors:	Min./Max. Speed:	67/70 dBA
4 motors:	Min./Max. Speed:	68/71 dBA

Sound data is not AMCA certified.

Berner reserves the right to alter specifications without prior notice.



ARCHITECTURAL RECESSED 16 - AC MOTORS

Electric Heated Air Curtain Electrical Performance Sheet

MODEL	kW (code)	Temp Rise °F	208/1/60 (voltage code B) AC MOTOR AMP DRAW = 6.5 each			240/1/60 (voltage code J) AC MOTOR AMP DRAW = 6.5 each			208/3/60 (voltage code X) AC MOTOR AMP DRAW = 6.5 each			240/3/60 (voltage code Y) AC MOTOR AMP DRAW = 6.5 each		
			# CKTS	AMPS PER CIRCUIT (including motor)	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT (including motor)	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT (including motor)	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT (including motor)	BREAKER RATING PER CIRCUIT
ARE16-1036E ARE16-1042E ARE16-1048E ARE16-1060E	14 (140)	20	2	29.0/44.9	40/60	2	26.0/38.9	35/50	1	45.4	60	1	40.2	60
	12 (120)	17	2	25.7/38.5	35/50	2	23.2/33.3	30/45	1	39.8	50	1	35.4	45
	10 (100)	14	2	22.5/32.0	30/40	1	48.2	60	1	34.3	45	1	30.6	40
	8 (080)	11	1	45.0	60	1	39.9	50	1	28.7	40	1	25.7	35
	6 (060)	8	1	35.3	45	1	31.5	40	1	23.2	30	1	20.9	30
ARE16-2060E ARE16-2072E ARE16-2078E ARE16-2084E ARE16-2096E	28 (280)	20	-	N/A	N/A	-	N/A	N/A	2	45.4/45.4	60/60	2	46.7/33.7	60/45
	24 (240)	17	-	N/A	N/A	-	N/A	N/A	2	46.3/33.3	60/45	2	41.9/28.9	60/40
	20 (200)	14	-	N/A	N/A	-	N/A	N/A	2	40.8/27.8	50/35	2	37.1/24.1	45/35
	16 (160)	11	2	51.5/38.5	60/50	2	46.3/33.3	60/45	2	35.2/22.2	45/30	1	51.5	60
	12 (120)	8	2	41.8/28.8	60/40	2	38.0/25.0	50/35	1	46.3	60	1	41.9	60
ARE16-3096E ARE16-3108E ARE16-3120E ARE16-3132E ARE16-3144E	42 (420)	20	-	N/A	N/A	-	N/A	N/A	3	45.4/45.4/45.4	60/60/60	3	46.7/40.2/33.7	60/60/45
	36 (360)	17	-	N/A	N/A	-	N/A	N/A	3	46.3/39.8/33.3	60/50/45	3	48.4/28.9/28.9	60/40/40
	30 (300)	14	-	N/A	N/A	-	N/A	N/A	3	47.3/27.8/27.8	60/35/35	2	43.6/48.1	60/60
	24 (240)	11	-	N/A	N/A	-	N/A	N/A	2	41.7/44.4	50/60	2	38.7/38.5	50/50
	18 (180)	8	-	N/A	N/A	-	N/A	N/A	2	36.2/33.3	45/45	2	33.9/28.9	40/40
ARE16-4144E	56 (560)	20	-	N/A	N/A	-	N/A	N/A	4	45.4/45.4/45.4/45.4	60/60/60/60	4	46.7/33.7/46.7/33.7	60/45/60/45
	48 (480)	17	-	N/A	N/A	-	N/A	N/A	4	46.3/46.3/33.3/33.3	60/60/45/45	4	41.9/28.9/41.9/28.9	60/40/60/40
	40 (400)	14	-	N/A	N/A	-	N/A	N/A	4	40.8/27.8/40.8/27.8	50/35/50/35	3	50.1/24.1/48.1	60/35/60
	32 (320)	11	-	N/A	N/A	-	N/A	N/A	3	35.2/35.2/44.4	45/45/60	2	51.5/51.5	60/60
	24 (240)	8	-	N/A	N/A	-	N/A	N/A	2	46.3/46.3	60/60	2	41.9/41.9	60/60

Berner reserves the right to alter specifications without prior notice.

Berner.com Berner Air Curtains 800.245.4455
111 Progress Ave. / New Castle / PA / 16101 / USA

EP-252
July, 2025



ARCHITECTURAL RECESSED 16 - AC MOTORS

Electric Heated Air Curtain Electrical Performance Sheet

MODEL	kW (code)	Temp Rise °F	480/3/60 (voltage code Z) AC MOTOR AMP DRAW = 3.2 each			600/3/60 (voltage code Q) AC MOTOR AMP DRAW = 2.0 each			380/3/50 (voltage code O) AC MOTOR AMP DRAW = 9.5 each			230/1/50 (voltage code V) AC MOTOR AMP DRAW = 9.5 each		
			# CKTS	AMPS PER CIRCUIT (including motor)	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT (including motor)	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT (including motor)	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT (including motor)	BREAKER RATING PER CIRCUIT
ARE16-1036E ARE16-1042E ARE16-1048E ARE16-1060E	14 (140)	20	1	20.0	25	1	15.5	20	1	30.8	40	2	30.7/42.5	40/60
	12 (120)	17	1	17.6	25	1	13.5	20	1	27.7	35	2	27.7/36.4	35/50
	10 (100)	14	1	15.2	20	1	11.6	15	1	24.7	35	1	24.6/30.3	35/40
	8 (080)	11	1	12.8	20	1	9.7	15	1	21.7	30	1	45.9	60
	6 (060)	8	1	10.4	15	1	7.8	15	1	18.6	25	1	36.8	50
ARE16-2060E ARE16-2072E ARE16-2078E ARE16-2084E ARE16-2096E	28 (280)	20	1	40.1	50	1	30.9	40	2	40.3/21.3	50/30	-	N/A	N/A
	24 (240)	17	1	35.3	45	1	27.1	35	2	37.2/18.2	45/25	-	N/A	N/A
	20 (200)	14	1	30.5	40	1	23.2	30	1	49.4	60	-	N/A	N/A
	16 (160)	11	1	25.6	35	1	19.4	25	1	43.3	60	2	45.9/45.9	60/60
	12 (120)	8	1	20.8	30	1	15.5	20	1	37.2	45	2	46.3/27.3	60/35
ARE16-3096E ARE16-3108E ARE16-3120E ARE16-3132E ARE16-3144E	42 (420)	20	2	26.4/33.7	35/45	1	46.4	60	2	49.8/42.5	60/60	-	N/A	N/A
	36 (360)	17	2	24.0/28.9	30/40	1	40.6	50	2	46.7/36.5	60/50	-	N/A	N/A
	30 (300)	14	1	45.7	60	1	34.9	45	2	43.7/30.4	50/40	-	N/A	N/A
	24 (240)	11	1	38.5	50	1	29.1	40	2	40.7/24.3	50/35	-	N/A	N/A
	18 (180)	8	1	31.3	40	1	23.3	30	2	37.6/18.2	45/25	-	N/A	N/A
ARE16-4144E	56 (560)	20	2	46.5/33.7	60/45	2	34.9/26.9	45/40	3	40.3/40.3/42.5	50/50/60	-	N/A	N/A
	48 (480)	17	2	41.7/28.9	50/40	2	31.1/23.1	40/30	3	37.2/37.2/36.5	45/45/50	-	N/A	N/A
	40 (400)	14	2	36.9/24.1	45/35	1	46.5	60	2	49.4/49.4	60/60	-	N/A	N/A
	32 (320)	11	1	51.3	60	1	38.8	50	2	43.3/43.3	60/60	-	N/A	N/A
	24 (240)	8	1	41.7	50	1	31.1	40	2	37.2/37.2	45/45	-	N/A	N/A

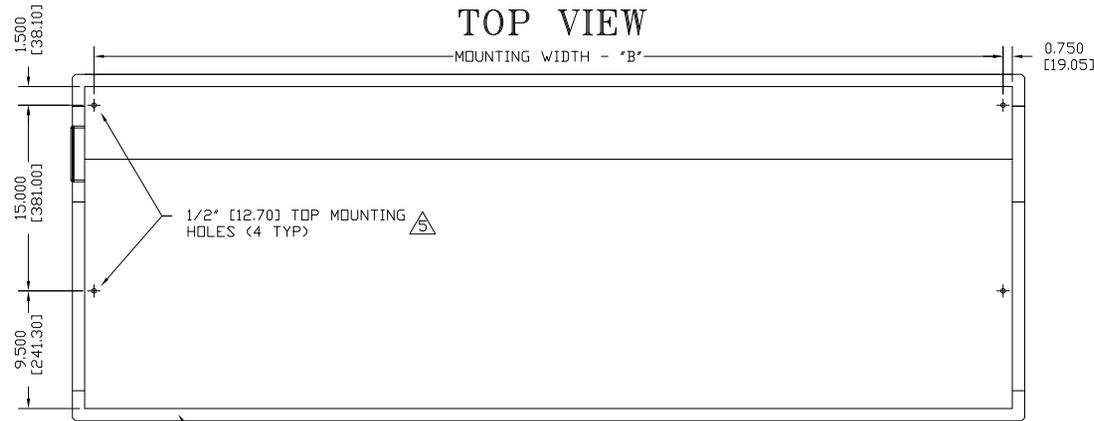
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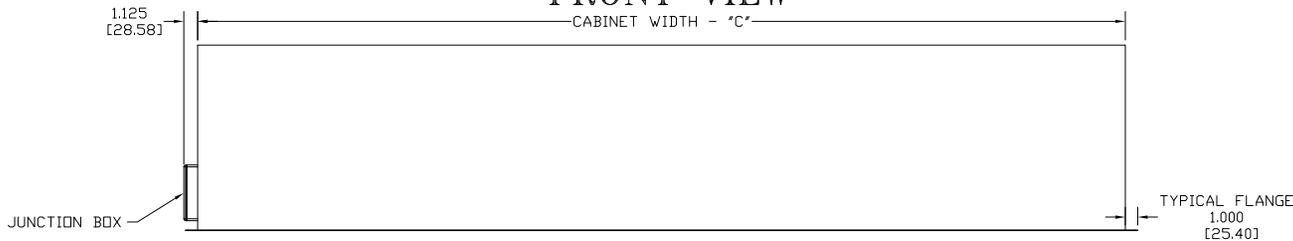
EP-252
July, 2025

ARE16 IN-CEILING MOUNT ELECTRIC HEATED

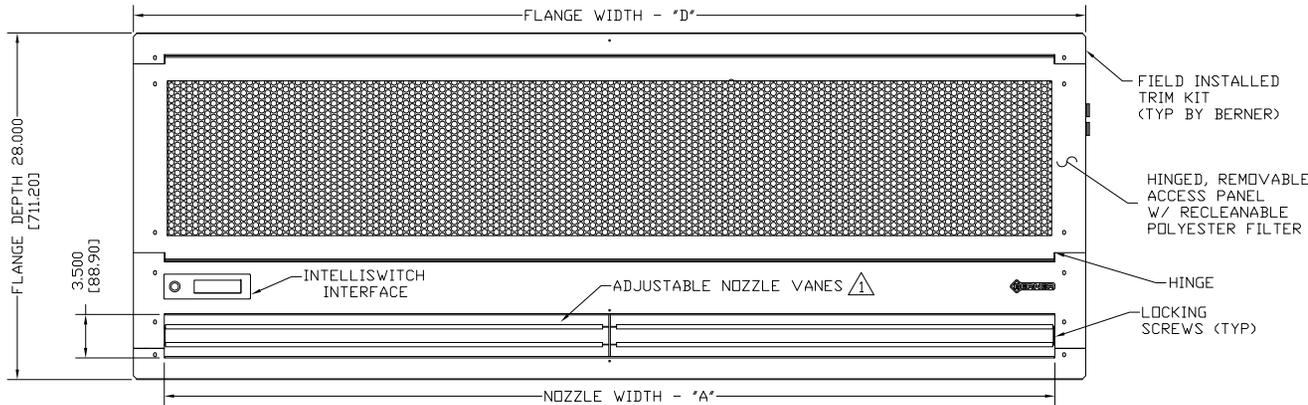
TOP VIEW



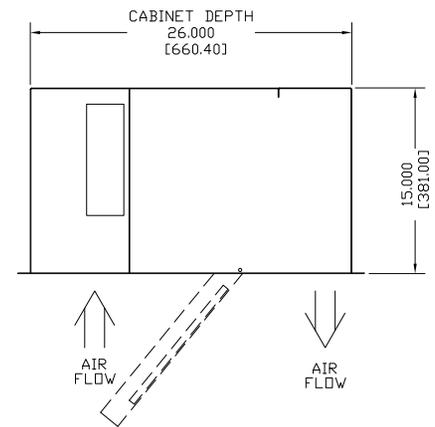
FRONT VIEW



BOTTOM VIEW



END VIEW



NOTES:

- ① AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT OBSTRUCTED WHEN DEFLECTED 20° TO EITHER SIDE OF C.
- ② ELECTRICAL CONNECTIONS TO BE FLEXIBLE.
- ③ FIELD VERIFY DIMENSIONS.
- ④ ANCHORS TO SUPPORTING STRUCTURE BY OTHERS.
- ⑤ ADEQUACY OF SUPPORTING STRUCTURE IS TO BE VERIFIED BY A PROFESSIONAL STRUCTURAL ENGINEER.
- ⑥ LETTER "E" IN MODEL NUMBER DESIGNATES ELECTRIC HEATED UNIT.
- △ DIMENSIONS IN INCHES [MILLIMETERS].

MODEL △	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	CABINET WIDTH "C"	FLANGE WIDTH "D"	RECOMMENDED ROUGH OPENING DEPTH x WIDTH
ARE16-1036E	36.00 [914]	37.50 [953]	39.00 [991]	41.00 [1041]	27.00 x 40.00 [686 x 1016]
ARE16-1042E	42.00 [1067]	43.50 [1105]	45.00 [1143]	47.00 [1194]	27.00 x 46.00 [686 x 1168]
ARE16-1048E	48.00 [1219]	49.50 [1257]	51.00 [1295]	53.00 [1346]	27.00 x 52.00 [686 x 1321]
ARE16-1060E/2060E	66.00 [1676]	67.50 [1712]	69.00 [1753]	71.00 [1803]	27.00 x 70.00 [686 x 1778]
ARE16-2072E	72.00 [1829]	73.50 [1867]	75.00 [1905]	77.00 [1956]	27.00 x 76.00 [686 x 1930]
ARE16-2078E	78.00 [1981]	79.50 [2019]	81.00 [2057]	83.00 [2108]	27.00 x 82.00 [686 x 2083]
ARE16-2084E	84.00 [2133]	85.50 [2172]	87.00 [2210]	89.00 [2261]	27.00 x 88.00 [686 x 2235]
ARE16-2096E/3096E	99.00 [2515]	100.50 [2553]	102.00 [2591]	104.00 [2642]	27.00 x 103.00 [686 x 2616]
ARE16-3108E	108.00 [2743]	109.50 [2781]	111.00 [2819]	113.00 [2870]	27.00 x 112.00 [686 x 2845]
ARE16-3120E	117.00 [2972]	118.50 [3010]	120.00 [3048]	122.00 [3099]	27.00 x 121.00 [686 x 3073]
ARE16-3132E	132.00 [3353]	133.50 [3391]	135.00 [3429]	137.00 [3480]	27.00 x 136.00 [686 x 3454]
ARE16-3144E/4144E	144.00 [3658]	145.50 [3696]	147.00 [3734]	149.00 [3785]	27.00 x 148.00 [686 x 3759]

PROJECT		
LOCATION		
ARCHITECT		
ENGINEER		REV. B
DWG. NO.	ARE16-ELE	TITLE: BERNER
DATE	23JUN2025	MODEL ARE16 AIR CURTAIN ELECTRIC HEATED SYSTEM
BY	S. Beil	
REPLACES	27MAY2025	
BY	S. Beil	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.