



ARCHITECTURAL RECESSED 16

Ambient (Unheated) Air Curtain

Data Sheet

Recommended for Mounting Heights to 16' (environmental separation) and 14' (insect control)

Vestibule Exception for Energy Codes ASHRAE 90.1-2019, IECC 2018, and ASHRAE 189.1, validated by AMCA certification.

VELOCITY PROJECTION: Model ARE16-1036A

Distance from Nozzle (in)	40	80	120	160
Core Velocity (fpm)	2589	1800	1511	1189
Uniformity (%)	90	85	87	86

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 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 (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.

Model ARE16-1060A, is not licensed to bear the AMCA seal.

5 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	Net Wt. (lbs)
ARE16-1036A	36.00	6,250	2,368	2,072	90%	0.91	1 @ 1	104
ARE16-1042A	42.00	5,594	2,208	2,254	88%	0.96	1 @ 1	111
ARE16-1048A	48.00	5,627	2,015	2,351	77%	1.09	1 @ 1	117
ARE16-1060A	66.00	5,401	1,502	2,410	73%	1.12	1 @ 1	137
ARE16-2060A	66.00	4,440	2,446	3,924	92%	1.79	2 @ 1	177
ARE16-2072A	72.00	6,250	2,368	4,144	90%	1.82	2 @ 1	187
ARE16-2078A	78.00	5,594	2,282	4,326	88%	1.87	2 @ 1	194
ARE16-2084A	84.00	5,594	2,208	4,508	88%	1.92	2 @ 1	200
ARE16-2096A	99.00	5,627	1,954	4,702	77%	2.18	2 @ 1	211
ARE16-3096A	99.00	6,250	2,492	5,996	90%	2.70	3 @ 1	253
ARE16-3108A	108.00	6,250	2,368	6,216	90%	2.73	3 @ 1	281
ARE16-3120A	117.00	5,594	2,314	6,580	88%	2.83	3 @ 1	293
ARE16-3132A	132.00	5,627	2,138	6,859	77%	3.01	3 @ 1	305
ARE16-3144A	144.00	5,627	2,015	7,053	77%	3.27	3 @ 1	316
ARE16-4144A	144.00	6,250	2,368	8,288	90%	3.64	4 @ 1	374

NOTE: Operation at 50 Hz will generate approximately a 17% reduction in air performance.

Berner does not recommend ARE16-1060A, exists only as an equivalent to competitors' models.

See sheet EP-250 for amp draws/total load requirements.

MODEL NUMBER CONFIGURATION

ARE16-1 036 A A -CB-D-R-SS

Series	# of Motors	Opening Width	Heat	Voltage	Berner AIR	Opt. Data Link	Opt. Display	Opt. Cabinet Finish
ARE16	1, 2, 3, 4	036" - 144"	A=Ambient	*A=120/1/60 B=208/1/60 J=240/1/60 Z=480/3/60 Q=600/3/60 V=220/1/50 O=380/3/50	CB=BASIC (Std.) CM=BMS	D=Physical Interconnect (daisy chain)	R=Remote Display TB=Tablet	SS=Stainless Steel CC=Custom Color

STANDARD CONSTRUCTION

- 15" high x 26" deep
- 1 hp motor(s) - two speeds
- Intelliswitch™ digital controller, includes Berner AIR® BASIC (smart control)
- White aluminum bottom panel
- Top Mounting only
- High efficiency, low noise Pro-V Nozzle
- Filter (washable)

OPTIONS

- Bottom panel finish: Custom Color or Stainless
- Berner AIR® BMS (smart control with BACnet and Modbus capabilities)

Berner reserves the right to alter specifications without prior notice.

for Standard offering, leave options (Opt.) blank

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.

www.berner.com Berner International 800.245.4455
111 Progress Ave. / New Castle / PA / 16101 / USA

DS-250
January, 2025



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Electrical Performance Sheet

MODEL	# CKTS	120/1/60 (voltage code A) AC MOTOR AMP DRAW = 12.6 each		# CKTS	208/1/60 (voltage code B) AC MOTOR AMP DRAW = 6.5 each		# CKTS	240/1/60 (voltage code J) AC MOTOR AMP DRAW = 6.5 each		# CKTS	220/1/50 (voltage code V) AC MOTOR AMP DRAW = 9.5 each	
		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
ARE16-1036A ARE16-1042A ARE16-1048A ARE16-1060A	1	12.6	20	1	6.5	15	1	6.5	15	1	9.5	15
ARE16-2060A ARE16-2072A ARE16-2078A ARE16-2084A ARE16-2096A	1	25.2	30	1	13.0	15	1	13.0	15	1	19.0	25
ARE16-3096A ARE16-3108A ARE16-3120A ARE16-3132A ARE16-3144A	1	37.8	45	1	19.5	25	1	19.5	25	1	28.5	40
ARE16-4144A	1	50.4	60	1	26.0	30	1	26.0	30	1	38.0	50

MODEL	# CKTS	480/3/60 (voltage code Z) AC MOTOR AMP DRAW = 3.2 each		# CKTS	600/3/60 (voltage code Q) AC MOTOR AMP DRAW = 2.0 each		# CKTS	380/3/50 (voltage code O) AC MOTOR AMP DRAW = 9.5 each	
		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
ARE16-1036A ARE16-1042A ARE16-1048A ARE16-1060A	1	3.2	15	1	2.0	15	1	9.5	15
ARE16-2060A ARE16-2072A ARE16-2078A ARE16-2084A ARE16-2096A	1	6.4	15	1	4.0	15	1	19.0	25
ARE16-3096A ARE16-3108A ARE16-3120A ARE16-3132A ARE16-3144A	1	9.6	15	1	6.0	15	1	28.5	40
ARE16-4144A	1	12.8	15	1	8.0	15	1	38.0	50

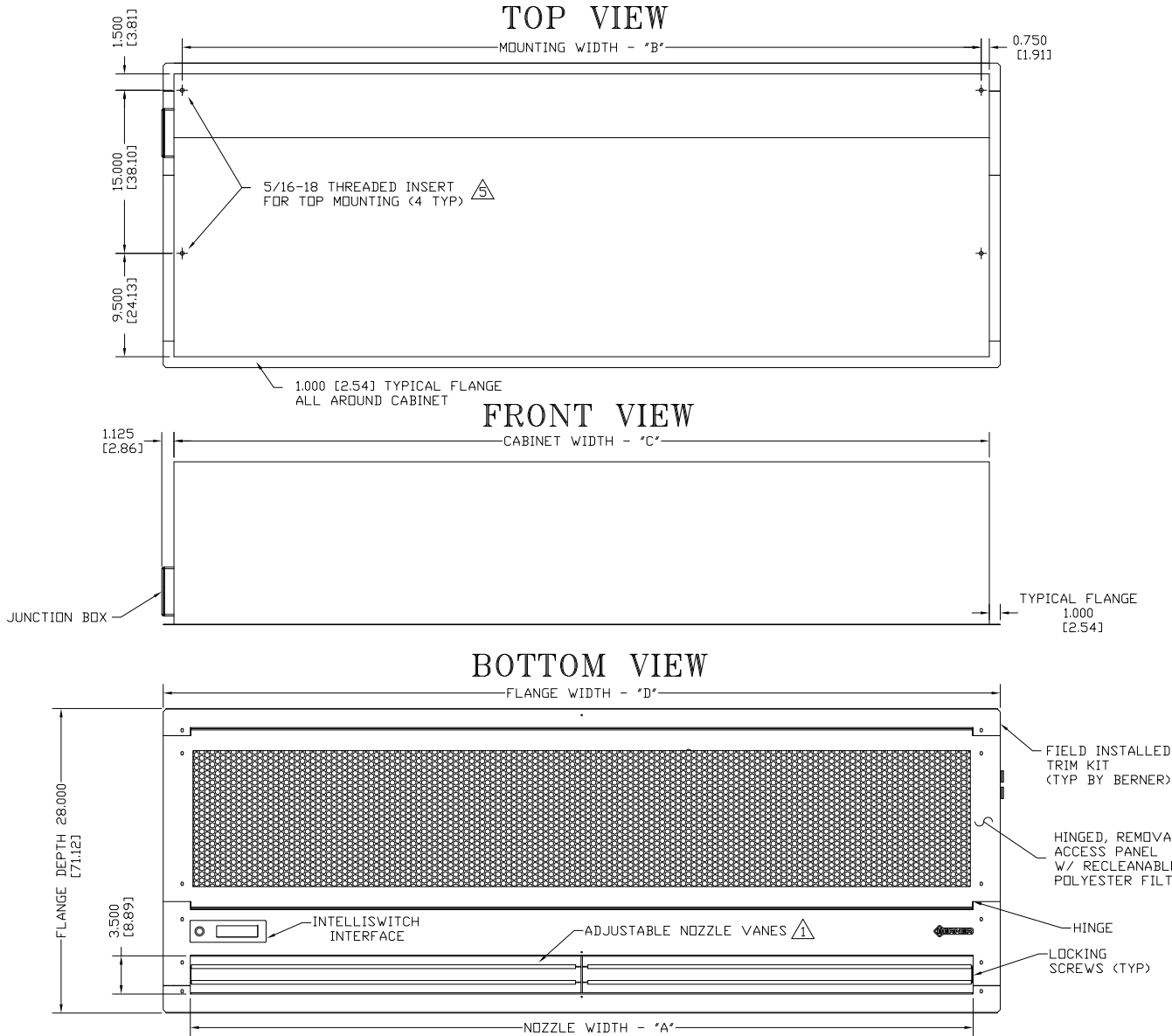
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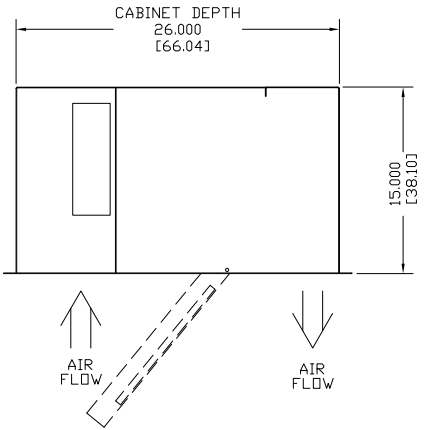
EP-250
January, 2025

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ARE16 IN-CEILING MOUNT AMBIENT SYSTEM



END VIEW



NOTES:

- AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT OBSTRUCTED WHEN DEFLECTED 20° TO EITHER SIDE OF $\mathcal{C}$.
- ELECTRICAL CONNECTIONS TO BE FLEXIBLE.
- FIELD VERIFY DIMENSIONS.
- ANCHORS TO SUPPORTING STRUCTURE BY OTHERS.
- ADEQUACY OF SUPPORTING STRUCTURE IS TO BE VERIFIED BY A PROFESSIONAL STRUCTURAL ENGINEER.
- LETTER "A" IN MODEL NUMBER DESIGNATES AMBIENT UNIT.
- DIMENSIONS IN INCHES [MILLIMETERS].

MODEL	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	CABINET WIDTH "C"	FLANGE WIDTH "D"	RECOMMENDED ROUGH OPENING DEPTH x WIDTH
ARE16-1036A	36.00 [914]	37.50 [953]	39.00 [991]	41.00 [1041]	27.00 x 40.00 [686 x 1016]
ARE16-1042A	42.00 [1067]	43.50 [1105]	45.00 [1143]	47.00 [1194]	27.00 x 46.00 [686 x 1168]
ARE16-1048A	48.00 [1219]	49.50 [1257]	51.00 [1295]	53.00 [1346]	27.00 x 52.00 [686 x 1321]
ARE16-1060A/2060A	66.00 [1676]	67.50 [1712]	69.00 [1753]	71.00 [1803]	27.00 x 70.00 [686 x 1778]
ARE16-2072A	72.00 [1829]	73.50 [1867]	75.00 [1905]	77.00 [1956]	27.00 x 76.00 [686 x 1930]
ARE16-2078A	78.00 [1981]	79.50 [2019]	81.00 [2057]	83.00 [2108]	27.00 x 82.00 [686 x 2083]
ARE16-2084A	84.00 [2133]	85.50 [2172]	87.00 [2210]	89.00 [2261]	27.00 x 88.00 [686 x 2235]
ARE16-2096A/3096A	99.00 [2515]	100.50 [2553]	102.00 [2591]	104.00 [2642]	27.00 x 103.00 [686 x 2616]
ARE16-3108A	108.00 [2743]	109.50 [2781]	111.00 [2819]	113.00 [2870]	27.00 x 112.00 [686 x 2845]
ARE16-3120A	117.00 [2972]	118.50 [3010]	120.00 [3048]	122.00 [3099]	27.00 x 121.00 [686 x 3073]
ARE16-3132A	132.00 [3353]	133.50 [3391]	135.00 [3429]	137.00 [3480]	27.00 x 136.00 [686 x 3454]
ARE16-3144A/4144A	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. -
DWG. NO.	ARE16-AMB	TITLE: BERNER
DATE	08DEC2025	MODEL ARE16 AIR CURTAIN
BY	S. Beil	AMBIENT SYSTEM
REPLACES	-	
BY	-	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.