



ARCHITECTURAL RECESSED 12

Ambient (Unheated) Air Curtain

Data Sheet

Recommended for Mounting Heights to 12' (environmental separation) and 10' (insect control)

Vestibule Exception for the ASHRAE 90.1-2019, IECC 2018, and ASHRAE 189.1 Energy Codes, require a velocity projection tested in accordance with AMCA 220 of not less than 6.6 feet per second (400 fpm or 2.0 m/s) at 6.0 in (15 cm) above the floor.

VELOCITY PROJECTION: Model ARE12-1036A

Distance from Nozzle (in)	40	80	120	160	200
Core Velocity (fpm)	1080	1010	885	775	680
Uniformity (%)	88	89	90	92	92



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 ARE12-1060A is not licensed to bear the AMCA seal.

5 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	Net Wt. (lbs)
ARE12-1036A	36.00	5,444	1,722	1,507	87%	0.46	1 @ 1/2	101
ARE12-1042A	42.00	4,828	1,549	1,581	85%	0.49	1 @ 1/2	108
ARE12-1048A	48.00	4,839	1,377	1,607	87%	0.51	1 @ 1/2	114
ARE12-1060A	66.00	4,828	1,027	1,647	83%	0.52	1 @ 1/2	134
ARE12-2060A	66.00	5,202	1,674	2,686	91%	0.92	2 @ 1/2	171
ARE12-2072A	72.00	5,444	1,722	3,014	87%	0.92	2 @ 1/2	182
ARE12-2078A	78.00	4,828	1,629	3,088	85%	0.95	2 @ 1/2	188
ARE12-2084A	84.00	4,828	1,549	3,162	85%	0.98	2 @ 1/2	194
ARE12-2096A	99.00	4,839	1,336	3,214	87%	1.02	2 @ 1/2	205
ARE12-3096A	99.00	5,202	1,743	4,193	87%	1.38	3 @ 1/2	245
ARE12-3108A	108.00	5,444	1,722	4,521	87%	1.38	3 @ 1/2	273
ARE12-3120A	117.00	4,828	1,642	4,669	85%	1.44	3 @ 1/2	285
ARE12-3132A	132.00	4,828	1,486	4,769	85%	1.49	3 @ 1/2	297
ARE12-3144A	144.00	4,839	1,377	4,821	87%	1.53	3 @ 1/2	308
ARE12-4144A	144.00	5,444	1,722	6,028	87%	1.84	4 @ 1/2	364

NOTE: Operation at 50 Hz will generate approximately a 17% reduction in air performance.
Berner does not recommend ARE12-1060A, exists only as an equivalent to competitors' model.
See sheet EP-240 for amp draws/total load requirements.

MODEL NUMBER CONFIGURATION

ARE12-1 036 A A -CB-D-R-SS

Series	# of Motors	Opening Width	Heat	Voltage	Berner AIR	Opt. Data Link	Opt. Display	Opt. Cabinet Finish
ARE12	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=230/1/50 O=380/3/50	CB=BASIC (Std.) CM=BMS (Opt.)	D=Physical Interconnect (daisy chain)	R=Remote Display TB=Tablet	SS=Stainless Steel CC=Custom Color

STANDARD CONSTRUCTION

- 15" high x 26" deep
- 1/2 hp AC motor(s) - ten 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
- Filter (washable)

OPTIONS

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

*Suitable for 50hz

for Standard offering, leave options (Opt.) blank

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

1 motor:	Min./Max. Speed:	59/62 dBA
2 motors:	Min./Max. Speed:	62/65 dBA
3 motors:	Min./Max. Speed:	64/67 dBA
4 motors:	Min./Max. Speed:	65/68 dBA

Sound data is not AMCA certified.

Berner reserves the right to alter specifications without prior notice.

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

DS-240D
July, 2025



ARCHITECTURAL RECESSED 12 - AC MOTORS

Ambient (Unheated) Air Curtain Electrical Performance Sheet

120/1/60 (voltage code A) AC MOTOR AMP DRAW = 8.5 each				208/1/60 (voltage code B) AC MOTOR AMP DRAW = 4.3 each			240/1/60 (voltage code J) or 230/1/50 (voltage code V) AC MOTOR AMP DRAW = 4.3 each		
MODEL	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
ARE12-1036A ARE12-1042A ARE12-1048A ARE12-1060A	1	8.5	15	1	4.3	15	1	4.3	15
ARE12-2060A ARE12-2072A ARE12-2078A ARE12-2084A ARE12-2096A	1	17.0	25	1	8.6	15	1	8.6	15
ARE12-3096A ARE12-3108A ARE12-3120A ARE12-3132A ARE12-3144A	1	25.5	35	1	12.9	20	1	12.9	20
ARE12-4144A	1	34.0	45	1	17.2	25	1	17.2	25

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ARCHITECTURAL RECESSED 12 - AC MOTORS

**Ambient (Unheated) Air Curtain
Electrical Performance Sheet**

480/3/60 (voltage code Z) XFMR 480/120 1 kVA per MTR @ 2.1 each AC MOTOR AMP DRAW= 8.5 each @ 120V				600/3/60 (voltage code Q) XFMR 600/120 1 kVA per MTR @ 1.7 each AC MOTOR AMP DRAW= 8.5 each @ 120V			380/3/50 (voltage code O) AC MOTOR AMP DRAW = 4.3 each		
MODEL	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
ARE12-1036A ARE12-1042A ARE12-1048A ARE12-1060A	1	2.1	15	1	1.7	15	1	4.3	15
ARE12-2060A ARE12-2072A ARE12-2078A ARE12-2084A ARE12-2096A	1	4.2	15	1	3.4	15	1	8.6	15
ARE12-3096A ARE12-3108A ARE12-3120A ARE12-3132A ARE12-3144A	1	6.3	15	1	5.1	15	1	12.9	20
ARE12-4144A	1	8.4	15	1	6.8	15	1	17.2	25

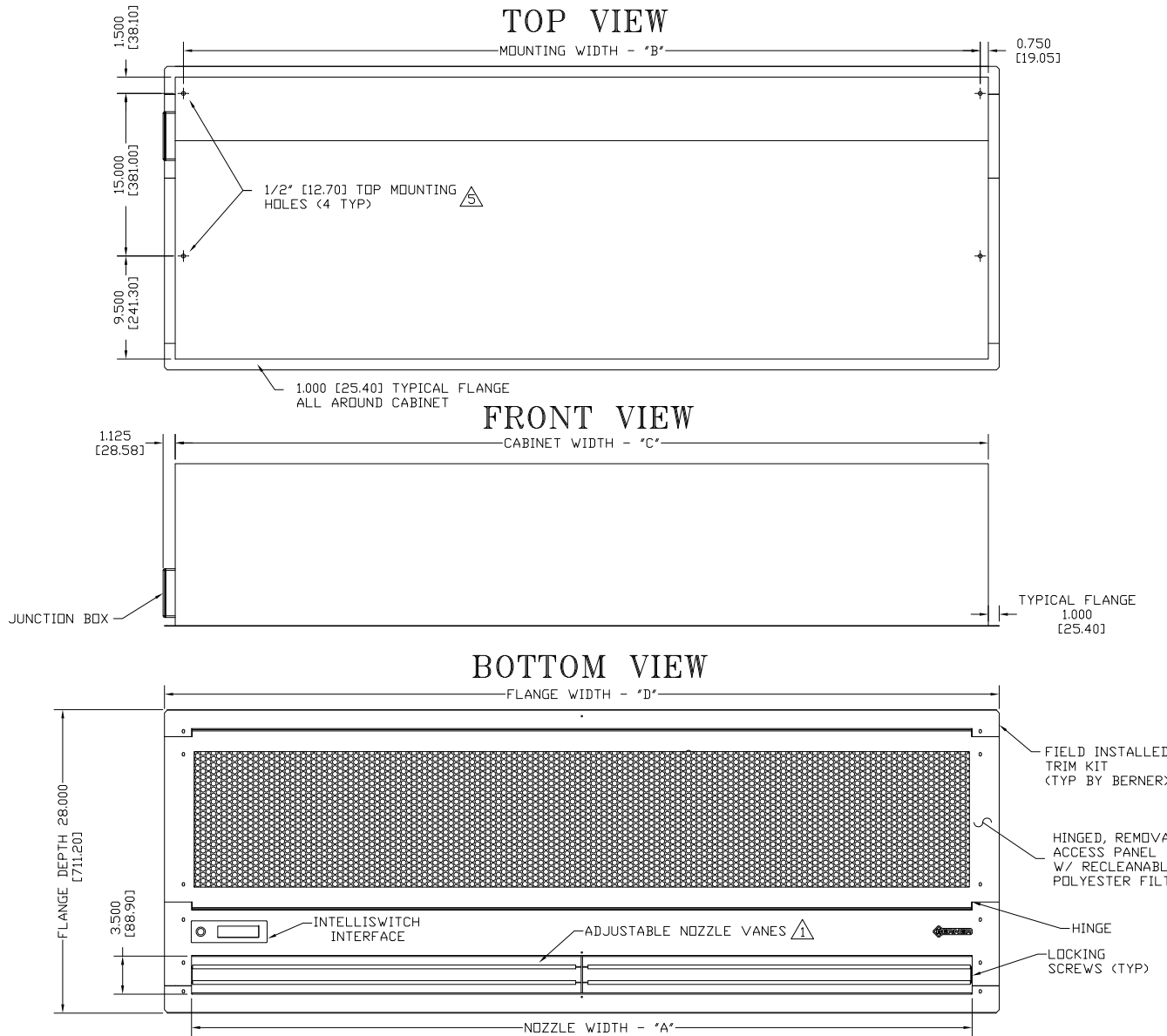
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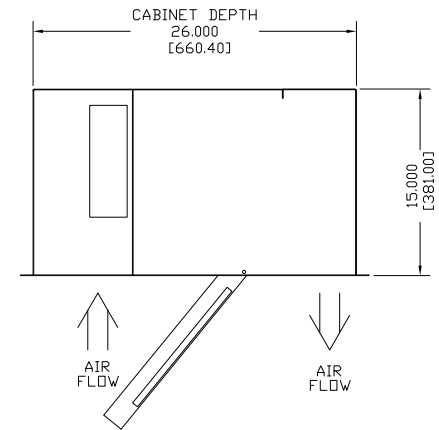
EP-240
July, 2025

ARE12

ARCHITECTURAL RECESSED AMBIENT SYSTEM



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 "A" IN MODEL NUMBER DESIGNATES AMBIENT UNIT.
- 7 DIMENSIONS IN INCHES [MILLIMETERS].

MODEL ⁶	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	CABINET WIDTH "C"	FLANGE WIDTH "D"	RECOMMENDED ROUGH OPENING DEPTH x WIDTH
ARE12-1036A	36.00 [914]	37.50 [953]	39.00 [991]	41.00 [1041]	27.00 x 40.00 [686 x 1016]
ARE12-1042A	42.00 [1067]	43.50 [1105]	45.00 [1143]	47.00 [1194]	27.00 x 46.00 [686 x 1168]
ARE12-1048A	48.00 [1219]	49.50 [1257]	51.00 [1295]	53.00 [1346]	27.00 x 52.00 [686 x 1321]
ARE12-1060A/2060A	66.00 [1676]	67.50 [1712]	69.00 [1753]	71.00 [1803]	27.00 x 70.00 [686 x 1778]
ARE12-2072A	72.00 [1829]	73.50 [1867]	75.00 [1905]	77.00 [1956]	27.00 x 76.00 [686 x 1930]
ARE12-2078A	78.00 [1981]	79.50 [2019]	81.00 [2057]	83.00 [2108]	27.00 x 82.00 [686 x 2083]
ARE12-2084A	84.00 [2133]	85.50 [2172]	87.00 [2210]	89.00 [2261]	27.00 x 88.00 [686 x 2235]
ARE12-2096A/3096A	99.00 [2515]	100.50 [2553]	102.00 [2591]	104.00 [2642]	27.00 x 103.00 [686 x 2616]
ARE12-3108A	108.00 [2743]	109.50 [2781]	111.00 [2819]	113.00 [2870]	27.00 x 112.00 [686 x 2845]
ARE12-3120A	117.00 [2972]	118.50 [3010]	120.00 [3048]	122.00 [3099]	27.00 x 121.00 [686 x 3073]
ARE12-3132A	132.00 [3353]	133.50 [3391]	135.00 [3429]	137.00 [3480]	27.00 x 136.00 [686 x 3454]
ARE12-3144A/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. B
DWG. NO.	ARE12-AMB	TITLE: BERNER
DATE	23JUN2025	MODEL ARE12 AIR CURTAIN
BY	S. Beil	AMBIENT SYSTEM
REPLACES	27MAY2025	
BY	S. Beil	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.