



ARCHITECTURAL RECESSED 16

Ambient (Unheated) Air Curtain

Data Sheet

For Mounting Heights To 16' (environmental separation) and 14' (insect control)

STANDARD CONSTRUCTION

- 15" high x 26" deep
- 1 hp motor(s) - two speeds
- Factory installed Intelliswitch digital controller
- 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™ (smart controller & app, includes BACnet)

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.



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.

Models ARC16-1060A, ARC16-2108A, and ARC16-2120A are 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)
ARC16-1036A	36.00	6,250	2,368	2,072	90%	0.91	1 @ 1	104
ARC16-1042A	42.00	5,594	2,208	2,254	88%	0.96	1 @ 1	111
ARC16-1048A	48.00	5,627	2,015	2,351	77%	1.09	1 @ 1	117
ARC16-1060A	66.00	5,401	1,502	2,410	73%	1.12	1 @ 1	137
ARC16-2060A	66.00	4,440	2,446	3,924	92%	1.79	2 @ 1	177
ARC16-2072A	72.00	6,250	2,368	4,144	90%	1.82	2 @ 1	187
ARC16-2084A	84.00	5,594	2,208	4,508	88%	1.92	2 @ 1	200
ARC16-2096A	99.00	5,627	1,954	4,702	77%	2.18	2 @ 1	211
ARC16-3096A	99.00	6,250	2,492	5,996	90%	2.70	3 @ 1	253
ARC16-2108A	108.00	5,401	1,814	4,761	73%	2.21	2 @ 1	229
ARC16-3108A	108.00	6,250	2,368	6,216	90%	2.73	3 @ 1	281
ARC16-2120A	117.00	5,401	1,695	4,820	73%	2.24	2 @ 1	247
ARC16-3120A	117.00	5,594	2,314	6,580	88%	2.83	3 @ 1	293
ARC16-3132A	132.00	5,627	2,138	6,859	77%	3.01	3 @ 1	305
ARC16-3144A	144.00	5,627	2,015	7,053	77%	3.27	3 @ 1	316
ARC16-4144A	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.

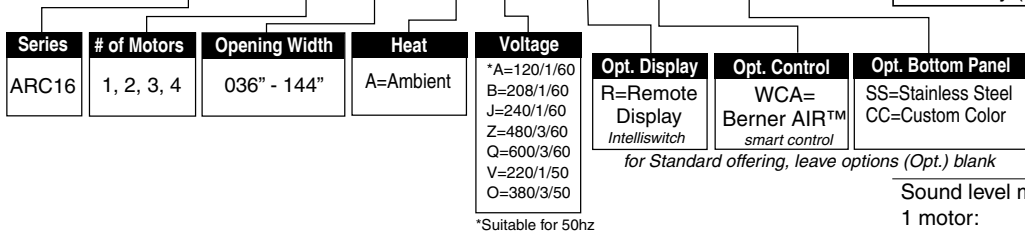
Berner does not recommend ARC16-1060A, ARC16-2108A and ARC16-2120A, exists only as an equivalent to competitors' models.

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

VELOCITY PROJECTION: Model ARC16-1036A				
Distance from Nozzle (in)	40	80	120	160
Core Velocity (fpm)	2589	1800	1511	1189
Uniformity (%)	90	85	87	86

MODEL NUMBER CONFIGURATION

ARC16-1 036 A A -R-WCA-SS



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.



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Electrical Performance Sheet

MODEL	120/1/60 (voltage code A) MOTOR AMP DRAW = 12.6 each			208/1/60 (voltage code B) MOTOR AMP DRAW = 6.5 each			240/1/60 (voltage code J) or 220/1/50 (voltage code V) MOTOR AMP DRAW = 6.5 each		
	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
ARC16-1036A ARC16-1042A ARC16-1048A ARC16-1060A	1	12.6	20	1	6.5	15	1	6.5	15
ARC16-2060A ARC16-2072A ARC16-2084A ARC16-2096A ARC16-2108A ARC16-2120A	1	25.2	30	1	13.0	15	1	13.0	15
ARC16-3096A ARC16-3108A ARC16-3120A ARC16-3132A ARC16-3144A	1	37.8	45	1	19.5	25	1	19.5	25
ARC16-4144A	1	50.4	60	1	26.0	30	1	26.0	30

MODEL	480/3/60 (voltage code Z) MOTOR AMP DRAW = 3.2 each			600/3/60 (voltage code Q) MOTOR AMP DRAW = 2.0 each			380/3/50 (voltage code O) MOTOR AMP DRAW = 4.3 each		
	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
ARC16-1036A ARC16-1042A ARC16-1048A ARC16-1060A	1	3.2	15	1	2.0	15	1	6.5	15
ARC16-2060A ARC16-2072A ARC16-2084A ARC16-2096A ARC16-2108A ARC16-2120A	1	6.4	15	1	4.0	15	1	13.0	15
ARC16-3096A ARC16-3108A ARC16-3120A ARC16-3132A ARC16-3144A	1	9.6	15	1	6.0	15	1	19.5	25
ARC16-4144A	1	12.8	15	1	8.0	15	1	26.0	30

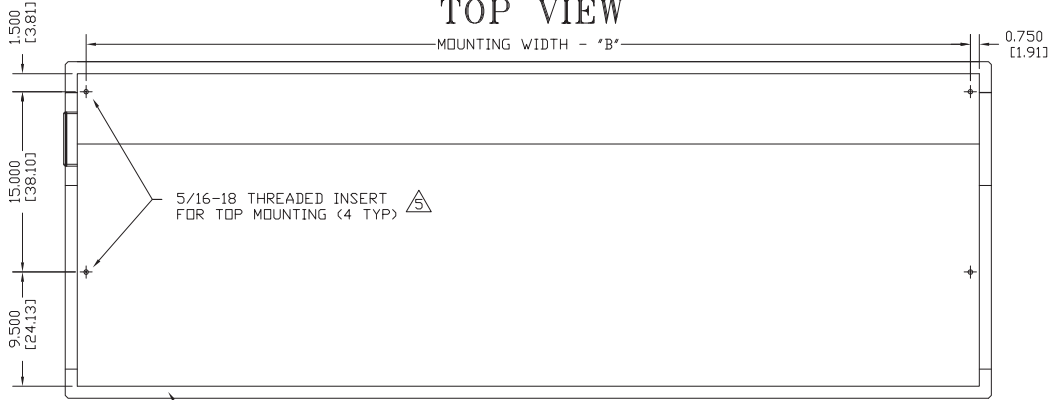
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www.berner.com **Berner International** 800.245-4455
111 Progress Ave. / New Castle / PA / 16101 / USA

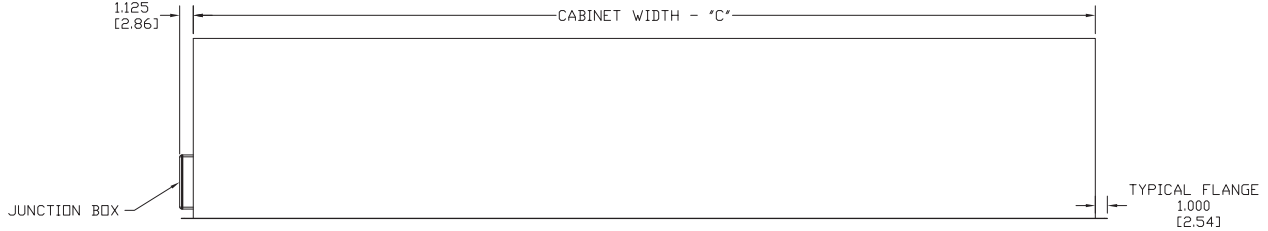
EP-250
October, 2016

ARC16 IN-CEILING MOUNT AMBIENT SYSTEM

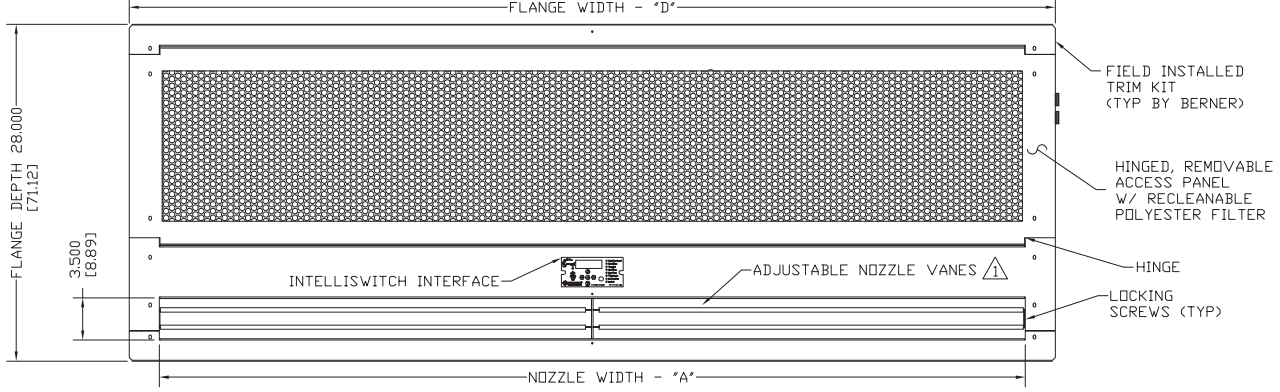
TOP VIEW



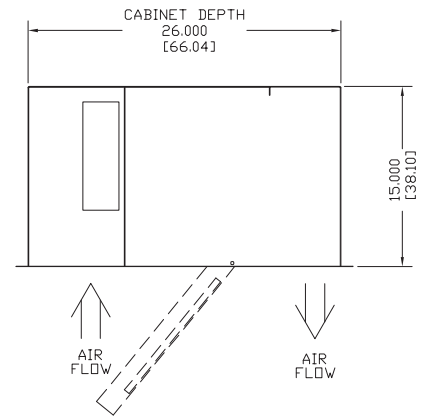
FRONT VIEW



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 "A" IN MODEL NUMBER DESIGNATES AMBIENT UNIT.
- △ DIMENSIONS IN INCHES [CENTIMETERS].

MODEL △	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	CABINET WIDTH "C"	FLANGE WIDTH "D"	RECOMMENDED ROUGH OPENING DEPTH x WIDTH
ARC16-1036A	36.00 [91.44]	37.50 [95.25]	39.00 [99.06]	41.00 [104.14]	27.00 x 40.00 [68.58 x 101.60]
ARC16-1042A	42.00 [106.68]	43.50 [110.49]	45.00 [114.30]	47.00 [119.38]	27.00 x 46.00 [68.58 x 116.84]
ARC16-1048A	48.00 [121.92]	49.50 [125.73]	51.00 [129.54]	53.00 [134.62]	27.00 x 52.00 [68.58 x 132.08]
ARC16-1060A/2060A	66.00 [167.64]	67.50 [171.45]	69.00 [175.26]	71.00 [180.34]	27.00 x 70.00 [68.58 x 177.80]
ARC16-2072A	72.00 [182.88]	73.50 [186.69]	75.00 [190.50]	77.00 [195.58]	27.00 x 76.00 [68.58 x 193.04]
ARC16-2084A	84.00 [213.36]	85.50 [217.17]	87.00 [220.98]	89.00 [226.06]	27.00 x 88.00 [68.58 x 223.52]
ARC16-2096A/3096A	99.00 [251.46]	100.50 [255.27]	102.00 [259.08]	104.00 [264.16]	27.00 x 103.00 [68.58 x 261.62]
ARC16-2108A/3108A	108.00 [274.32]	109.50 [278.13]	111.00 [281.94]	113.00 [287.02]	27.00 x 112.00 [68.58 x 284.48]
ARC16-2120A/3120A	117.00 [297.18]	118.50 [300.99]	120.00 [304.80]	122.00 [309.88]	27.00 x 121.00 [68.58 x 307.34]
ARC16-3132A	132.00 [335.28]	133.50 [339.09]	135.00 [342.90]	137.00 [347.98]	27.00 x 136.00 [68.58 x 345.44]
ARC16-3144A/4144A	144.00 [365.76]	145.50 [369.57]	147.00 [373.38]	149.00 [378.46]	27.00 x 148.00 [68.58 x 375.92]

PROJECT		
LOCATION		
ARCHITECT		
ENGINEER		REV. -
DWG. NO.	ARC16-AMB	TITLE: BERNER
DATE	22SEPT14	MODEL ARC16 AIR CURTAIN
BY	S. Beil	AMBIENT SYSTEM
REPLACES	-	
BY	-	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.