

For Door Heights To 16' (environmental separation)

STANDARD CONSTRUCTION

- 15" high x 26" deep
- 1 hp two speed motor(s)
- Factory installed Intelliswitch digital controller (Optional: Custom Color or Stainless)
- White aluminum exterior panel
- Top Mounting only
- High efficiency, low noise Pro-V Nozzle
- Filter (washable)

- Patented venturi open helical element with point suspension
 - Thermal overload protection
 - Galvanized steel frame
- Alternate kW: see sheet EP-252

2 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	Max Electric Capacity (kW)	Heater Output (MBH)	Air Temp. Rise (°F)	Net Wt. (lbs)
ARC16-1036E	36.00	6,250	2,368	2,072	90%	0.91	1 @ 1	14.0	47.8	21°	108
ARC16-1042E	42.00	5,594	2,208	2,254	88%	0.96	1 @ 1	14.0	47.8	20°	115
ARC16-1048E	48.00	5,627	2,015	2,351	77%	1.09	1 @ 1	14.0	47.8	19°	121
ARC16-1060E	66.00	5,401	1,502	2,410	73%	1.12	1 @ 1	14.0	47.8	18°	141
ARC16-2060E	66.00	4,440	2,446	3,924	92%	1.79	2 @ 1	28.0	95.6	22°	185
ARC16-2072E	72.00	6,250	2,368	4,144	90%	1.82	2 @ 1	28.0	95.6	21°	195
ARC16-2084E	84.00	5,594	2,208	4,508	88%	1.92	2 @ 1	28.0	95.6	20°	208
ARC16-2096E	99.00	5,627	1,954	4,702	77%	2.18	2 @ 1	28.0	95.6	19°	219
ARC16-3096E	99.00	6,250	2,492	5,996	90%	2.70	3 @ 1	42.0	143.3	22°	265
ARC16-2108E	108.00	5,401	1,814	4,761	73%	2.21	2 @ 1	28.0	95.6	19°	237
ARC16-3108E	108.00	6,250	2,368	6,216	90%	2.73	3 @ 1	42.0	143.3	21°	293
ARC16-2120E	117.00	5,401	1,695	4,820	73%	2.24	2 @ 1	28.0	95.6	18°	255
ARC16-3120E	117.00	5,594	2,314	6,580	88%	2.83	3 @ 1	42.0	143.3	20°	305
ARC16-3132E	132.00	5,627	2,138	6,859	77%	3.01	3 @ 1	42.0	143.3	19°	317
ARC16-3144E	144.00	5,627	2,015	7,053	77%	3.27	3 @ 1	42.0	143.3	19°	328

NOTES:

1. Operation at 50 Hz will generate approximately a 17% reduction in air performance.
 2. Performance data based on AMCA licensed data from unheated units.
- Berner does not recommend ARC16-2120E, exists only as an equivalent to competitors' models.
See sheet EP-252 for amp draws/total load requirements and alternate kW.

MODEL NUMBER CONFIGURATION

ARC16-1 036 E B-R-SS

Series	# of Motors	Opening Width	Heat	Voltage	Opt. Display	Opt. Cabinet Finish
ARC16	1, 2, 3, 4	036" - 144"	E=Electric Heated	*B=208/1/60 *J=240/1/60 *V=220/1/50 X=208/3/60 Y=240/3/60 Z=480/3/60 Q=600/3/60 O=380/3/50	Remote Display <i>Intelliswitch</i>	SS=Stainless Steel CC=Custom Color

*Max 16kW
See sheet EP-252 for available lengths and voltages

Sound level measured 10' (3m) from the unit in free field:		
1 motor:	Low/High Speed:	63/65 dBA
2 motors:	Low/High Speed:	66/68 dBA
3 motors:	Low/High Speed:	68/70 dBA
4 motors:	Low/High Speed:	69/71 dBA

Berner reserves the right to alter specifications without prior notice.



ARCHITECTURAL RECESSED 16

Electric Heated Air Curtain

Electrical Performance Sheet

MODEL	kW option	Temp Rise °F	208/1/60 (voltage code B) or 220/1/50 (voltage code V) MOTOR AMP DRAW = 6.5 each			240/1/60 (voltage code J) MOTOR AMP DRAW = 6.5 each			208/3/60 (voltage code X) MOTOR AMP DRAW = 6.5 each			240/3/60 (voltage code Y) 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
ARC16-1036E ARC16-1042E ARC16-1048E ARC16-1060E	14	20	2	29.0/44.9	40/60	2	26.0/38.9	35/50	1	45.4	60	1	40.2	60
	10	14	2	22.5/32.0	30/40	1	48.2	60	1	34.3	45	1	30.6	40
	8	11	1	45.0	60	1	39.8	50	1	28.7	40	1	25.7	35
	6	8	1	35.3	45	1	31.5	40	1	23.2	30	1	20.9	30
ARC16-2060E ARC16-2072E ARC16-2084E ARC16-2096E ARC16-2108E ARC16-2120E	28	20	-	N/A	N/A	-	N/A	N/A	2	45.4/45.4	60/60	2	46.7/33.7	60/45
	20	14	-	N/A	N/A	-	N/A	N/A	2	40.8/27.8	50/35	2	37.1/24.1	45/35
	16	11	-	N/A	N/A	2	46.3/33.3	60/45	2	35.2/22.2	45/30	2	32.2/19.2	40/25
	12	8	2	35.3/28.8	45/40	2	25.3/33.3	35/45	1	46.3	60	1	41.9	60
ARC16-3096E ARC16-3108E ARC16-3120E ARC16-3132E ARC16-3144E	42	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
	30	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	11	-	N/A	N/A	-	N/A	N/A	2	41.7/44.4	50/60	2	38.7/38.5	50/50
	18	8	-	N/A	N/A	-	N/A	N/A	2	36.2/33.3	45/45	2	33.9/28.9	40/40
ARC16-4144E	56	20	-	N/A	N/A	-	N/A	N/A	4	45.4/45.4/45.4/45.4	60/60/60/60	4	46.7/46.7/33.7/33.7	60/60/45/45
	40	14	-	N/A	N/A	-	N/A	N/A	4	40.8/40.8/27.8/27.8	50/50/35/35	3	37.1/37.1/48.1	45/45/60
	32	11	-	N/A	N/A	-	N/A	N/A	3	35.2/35.2/44.4	45/45/60	3	45.2/38.5/19.2	60/50/25
	24	8	-	N/A	N/A	-	N/A	N/A	2	46.3/46.3	60/60	2	41.9/41.9	60/60



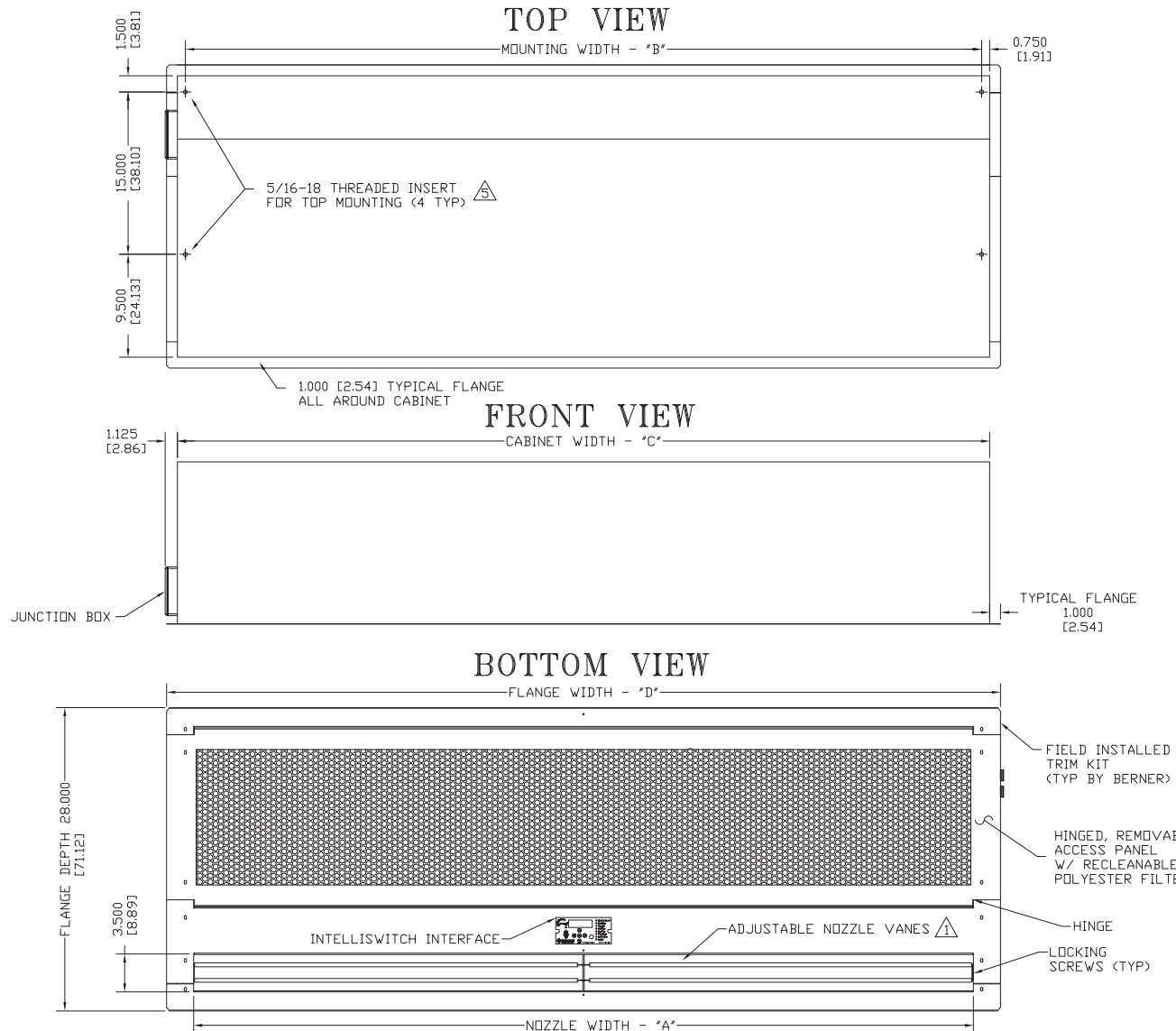
ARCHITECTURAL RECESSED 16

Electric Heated Air Curtain

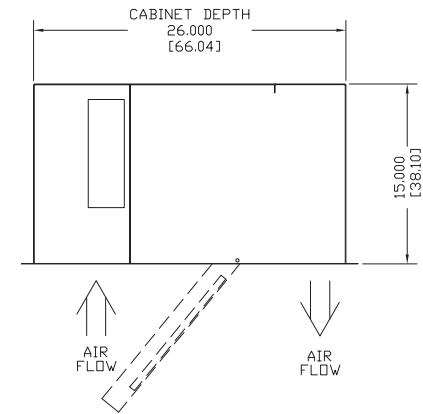
Electrical Performance Sheet

MODEL	kW option	Temp Rise °F	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 = 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
ARC16-1036E ARC16-1042E ARC16-1048E ARC16-1060E	14	20	1	20.0	25	1	16.1	25	1	27.8	35
	10	14	1	15.2	20	1	12.0	20	1	21.7	30
	8	11	1	12.8	15	1	10.0	15	1	18.7	25
	6	8	1	10.4	15	1	8.0	15	1	15.6	20
ARC16-2060E ARC16-2072E ARC16-2084E ARC16-2096E ARC16-2108E ARC16-2120E	28	20	1	40.1	50	1	32.1	40	2	34.3/21.3	45/30
	20	14	1	30.5	40	1	24.1	30	1	43.4	60
	16	11	1	25.6	35	1	20.1	25	1	37.3	40
	12	8	1	20.8	30	1	16.0	20	1	31.2	40
ARC16-3096E ARC16-3108E ARC16-3120E ARC16-3132E ARC16-3144E	42	20	2	43.3/16.8	60/25	1	48.2	60	2	40.8/42.5	50/60
	30	14	1	45.7	60	1	36.1	45	2	34.7/30.4	45/40
	24	11	1	38.5	50	1	30.1	40	2	43.8/12.2	60/20
	18	8	1	31.3	40	1	24.1	30	1	46.8	60
ARC16-4144E	56	20	2	46.5/33.7	60/45	2	36.1/28.1	45/40	3	47.3/42.5/21.3	60/60/30
	40	14	2	36.9/24.1	45/35	1	48.2	60	2	41.2/45.6	50/60
	32	11	2	32.0/19.2	40/25	1	40.1	50	2	38.2/36.5	45/60
	24	8	1	41.7	50	1	32.1	40	2	44.2/18.2	60/25

ARC16 IN-CEILING MOUNT ELECTRIC HEATED



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.
- 7 DIMENSIONS IN INCHES [CENTIMETERS].

MODEL	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	CABINET WIDTH "C"	FLANGE WIDTH "D"	RECOMMENDED ROUGH OPENING DEPTH x WIDTH
ARC16-1036E	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]
ARC16-1042E	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]
ARC16-1048E	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]
ARC16-1060E/2060E	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]
ARC16-2072E	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]
ARC16-2084E	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]
ARC16-2096E/3096E	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]
ARC16-2108E/3108E	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]
ARC16-2120E/3120E	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]
ARC16-3132E	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]
ARC16-3144E/4144E	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-ELE	TITLE: BERNER
DATE	22SEPT14	MODEL ARC16 AIR CURTAIN
BY	S. Beil	ELECTRIC HEATED SYSTEM
REPLACES	-	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.
BY	-	