



# ARCHITECTURAL RECESSED 16

## Steam Heated Air Curtain

### Data Sheet

**Recommended for Mounting Heights to 16' (environmental separation)**

#### 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)
- Factory installed coil

#### OPTIONS

- Bottom panel finish: Custom Color or Stainless
- Berner AIR™ (smart controller & app, includes BACnet)

**2 Year  
Limited  
Warranty**



indoor use



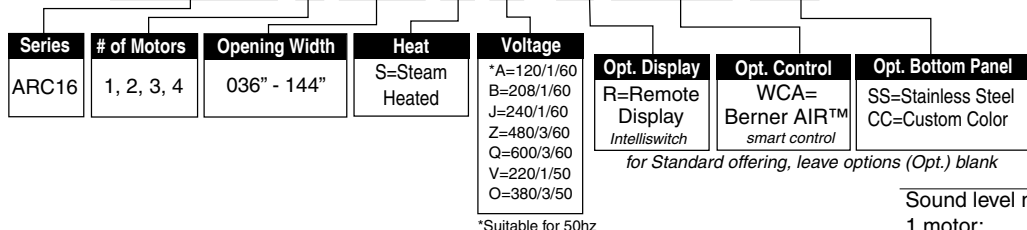
MODEL	Nozzle Width (in)	Max Vel. at Nozzle (fpm)	Avg. Outlet Vel. (fpm)	Air Volume (cfm)	Outlet Vel. Uniformity	Power Rating (kW)	Motor(s) @ hp	Coil Output (MBH)	Inlet Pressure (PSIG)	Condensate (lbs/hr)	Air Temp. Rise (°F)	Net Wt. (lbs)
ARC16-1036S	36.00	6,250	2,368	2,072	90%	0.91	1 @ 1	74.4	5	76.6	33°	141
ARC16-1042S	42.00	5,594	2,208	2,254	88%	0.96	1 @ 1	84.9	5	87.5	34°	151
ARC16-1048S	48.00	5,627	2,015	2,351	77%	1.09	1 @ 1	93.6	5	96.4	36°	160
ARC16-1060S	66.00	5,401	1,502	2,410	73%	1.12	1 @ 1	107.2	5	110.5	41°	187
ARC16-2060S	66.00	4,440	2,446	3,924	92%	1.79	2 @ 1	134.8	5	138.9	31°	227
ARC16-2072S	72.00	6,250	2,368	4,144	90%	1.82	2 @ 1	155.0	5	159.7	34°	243
ARC16-2084S	84.00	5,594	2,208	4,508	88%	1.92	2 @ 1	175.6	5	181.0	36°	262
ARC16-2096S	99.00	5,627	1,954	4,702	77%	2.18	2 @ 1	192.7	5	198.6	37°	279
ARC16-3096S	99.00	6,250	2,492	5,996	90%	2.70	3 @ 1	215.7	5	222.3	33°	321
ARC16-2108S	108.00	5,401	1,814	4,761	73%	2.21	2 @ 1	204.3	5	210.6	39°	302
ARC16-3108S	108.00	6,250	2,368	6,216	90%	2.73	3 @ 1	231.8	5	238.9	34°	354
ARC16-2120S	117.00	5,401	1,695	4,820	73%	2.24	2 @ 1	215.4	5	222.0	41°	325
ARC16-3120S	117.00	5,594	2,314	6,580	88%	2.83	3 @ 1	250.2	5	257.9	35°	371
ARC16-3132S	132.00	5,627	2,138	6,859	77%	3.01	3 @ 1	272.6	5	281.0	36°	392
ARC16-3144S	144.00	5,627	2,015	7,053	77%	3.27	3 @ 1	289.5	5	298.4	38°	409
ARC16-4144S	144.00	6,250	2,368	8,288	90%	3.64	4 @ 1	312.3	5	321.9	34°	467

#### NOTES:

1. Operation at 50 Hz will generate approximately a 17% reduction in performance.
  2. Performance data based on AMCA licensed data from unheated units.
  3. Coil performance based on 65°F entering air temperature.
  4. Standard connection same end supply/return (Optional: opposite end supply/return).
  5. Coil should be field supplied with a solenoid valve that energizes only when air curtain is energized. Consideration must be taken for freeze protection when necessary.
  6. Maximum leaving air temperature shall not exceed 120°F.
  7. Consult factory for alternate steam pressures and opposite end supply/return connections performance data.
- Berner does not recommend ARC16-1060S, ARC16-2108S and ARC16-2120S, exists only as an equivalent to competitors' models. See sheet EP-254 for amp draws/total load requirements.*

### MODEL NUMBER CONFIGURATION

**ARC16-1 036 S 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.*



# ARCHITECTURAL RECESSED 16

## Steam Heated Air Curtain 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
ARC16-1036S ARC16-1042S ARC16-1048S ARC16-1060S	1	12.6	20	1	6.5	15	1	6.5	15
ARC16-2060S ARC16-2072S ARC16-2084S ARC16-2096S ARC16-2108S ARC16-2120S	1	25.2	30	1	13.0	15	1	13.0	15
ARC16-3096S ARC16-3108S ARC16-3120S ARC16-3132S ARC16-3144S	1	37.8	45	1	19.5	25	1	19.5	25
ARC16-4144S	1	50.4	60	1	26.0	30	1	26.0	30

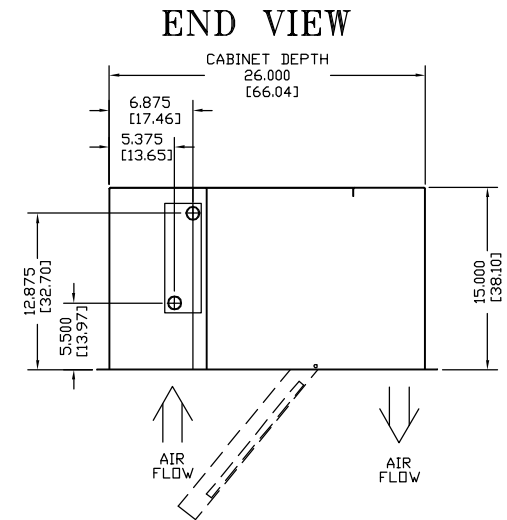
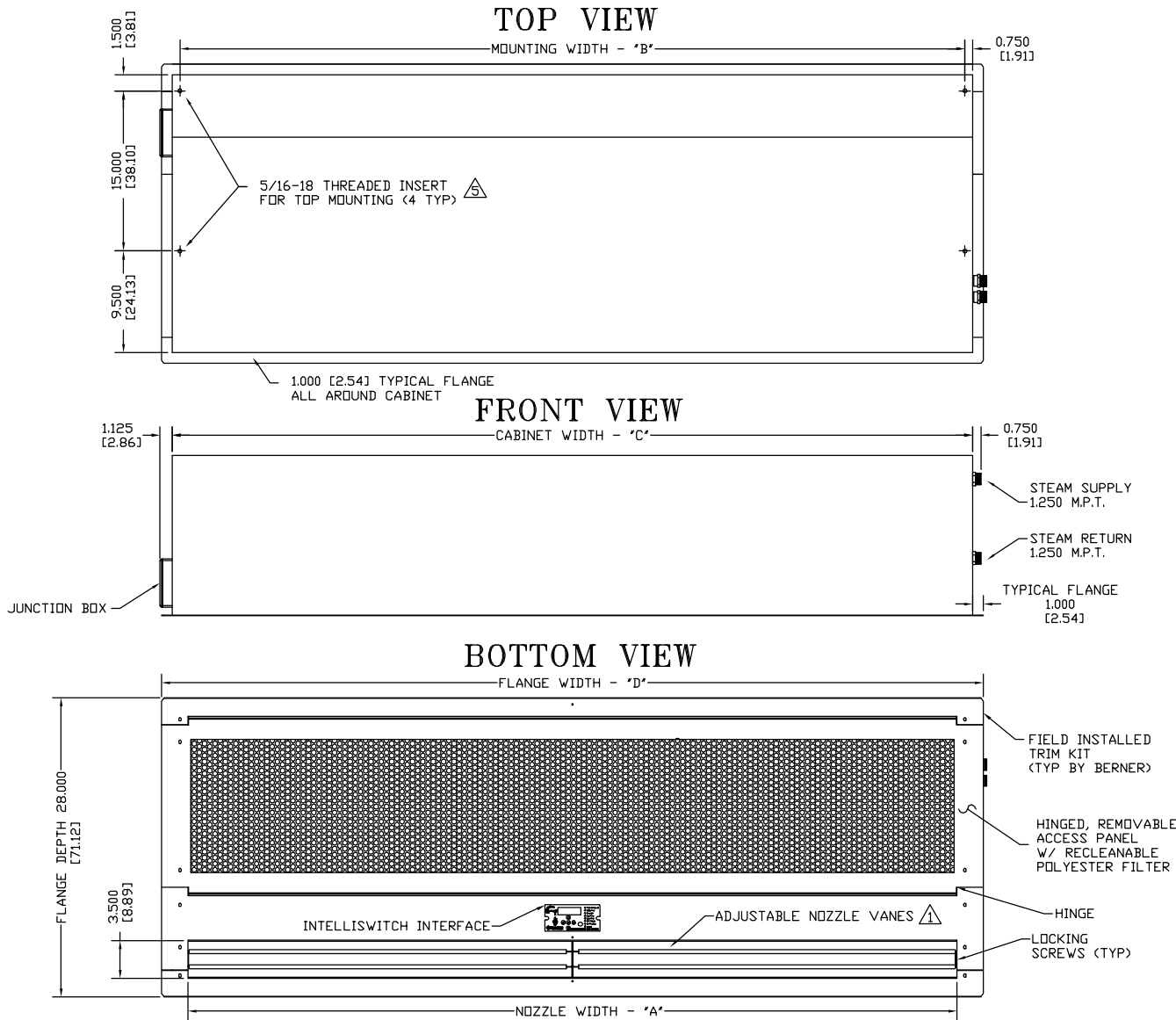
MODEL	480/3/60 (voltage code Z) MOTOR AMP DRAW = 3.2 each			600/3/60 (voltage code Q) MOTOR AMP DRAW = 2.0 each			380/3/50 (voltage code O) MOTOR AMP DRAW = 4.3 each		
	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER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

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[www.berner.com](http://www.berner.com) **Berner International** 800.245-4455  
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EP-254  
October, 2016

# ARC16 IN-CEILING MOUNT STEAM HEATED



## 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 "S" IN MODEL NUMBER DESIGNATES STEAM HEATED UNIT.
- ⑦ DIMENSIONS IN INCHES (CENTIMETERS).

MODEL ⑥	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	CABINET WIDTH "C"	FLANGE WIDTH "D"	RECOMMENDED ROUGH OPENING DEPTH x WIDTH
ARC16-1036S	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]
ARC16-1042S	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]
ARC16-1048S	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]
ARC16-1060S/2060S	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]
ARC16-2072S	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]
ARC16-2084S	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]
ARC16-2096S/3096S	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]
ARC16-2108S/3108S	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]
ARC16-2120S/3120S	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]
ARC16-3132S	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]
ARC16-3144S/4144S	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. A	
DWG. NO.	ARC16-STM	TITLE: <b>BERNER</b>
DATE	25JULY2016	MODEL ARC16 AIR CURTAIN
BY	S. Beil	STEAM HEATED SYSTEM
REPLACES	22SEPT14	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.
BY	S. Beil	