



ARCHITECTURAL RECESSED 16

Steam Heated Air Curtain

Data Sheet

Recommended for Mounting Heights to 16' (environmental separation)

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)
ARE16-1036S	36.00	6,250	2,368	2,072	90%	0.91	1 @ 1	74.3	5	76.6	33°	131
ARE16-1042S	42.00	5,594	2,208	2,254	88%	0.96	1 @ 1	84.7	5	87.3	35°	141
ARE16-1048S	48.00	5,627	2,015	2,351	77%	1.09	1 @ 1	93.3	5	96.1	37°	150
ARE16-1060S	66.00	5,401	1,502	2,410	73%	1.12	1 @ 1	111.8	5	115.3	43°	181
ARE16-2060S	66.00	4,440	2,446	3,924	92%	1.79	2 @ 1	142.5	5	146.9	34°	221
ARE16-2072S	72.00	6,250	2,368	4,144	90%	1.82	2 @ 1	154.7	5	159.5	34°	235
ARE16-2078S	78.00	5,594	2,282	4,326	88%	1.87	2 @ 1	165.0	5	170.0	35°	245
ARE16-2084S	84.00	5,594	2,208	4,508	88%	1.92	2 @ 1	175.1	5	180.5	36°	254
ARE16-2096S	99.00	5,627	1,954	4,702	77%	2.18	2 @ 1	191.9	5	197.7	38°	271
ARE16-3096S	99.00	6,250	2,492	5,996	90%	2.70	3 @ 1	215.6	5	222.2	33°	313
ARE16-3108S	108.00	6,250	2,368	6,216	90%	2.73	3 @ 1	231.5	5	238.6	34°	346
ARE16-3120S	117.00	5,594	2,314	6,580	88%	2.83	3 @ 1	249.7	5	257.3	35°	363
ARE16-3132S	132.00	5,627	2,138	6,859	77%	3.01	3 @ 1	271.7	5	280.0	37°	385
ARE16-3144S	144.00	5,627	2,015	7,053	77%	3.27	3 @ 1	288.3	5	297.1	38°	402
ARE16-4144S	144.00	6,250	2,368	8,288	90%	3.64	4 @ 1	311.8	5	321.3	35°	460

See sheet EP-254 for amp draws/total load requirements

NOTES:

- Standard connection same end supply/return.
- Coil should be field supplied with a solenoid/control valve that energizes only when air curtain is energized. Consideration must be taken for freeze protection when necessary.
- Coil performance based on 65°F entering air temperature.
- Maximum leaving air temperature shall not exceed 120°F.
- Consult factory for alternate steam pressures.

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

MODEL NUMBER CONFIGURATION

ARE16-1 036 S 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"	S=Steam Heated	*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 *Suitable for 50hz	CB=BASIC (Std.) CM=BMS (Opt.)	D=Physical Interconnect (daisy chain)	R=Remote Display TB=Tablet	SS=Stainless Steel CC=Custom Color

for Standard offering, leave options (Opt.) blank

STANDARD CONSTRUCTION

- 15" high x 26" deep
- 1 hp AC motor(s) - two 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)
- Factory installed coil

OPTIONS

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

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.

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

DS-254
July, 2025



ARCHITECTURAL RECESSED 16 - AC MOTORS

Steam Heated Air Curtain 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	230/1/50 (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
ARE16-1036S ARE16-1042S ARE16-1048S ARE16-1060S	1	12.6	20	1	6.5	15	1	6.5	15	1	9.5	15
ARE16-2060S ARE16-2072S ARE16-2078S ARE16-2084S ARE16-2096S	1	25.2	35	1	13.0	20	1	13.0	20	1	19.0	25
ARE16-3096S ARE16-3108S ARE16-3120S ARE16-3132S ARE16-3144S	1	37.8	50	1	19.5	30	1	19.5	30	1	28.5	40
ARE16-4144S	1	50.4	70	1	26.0	35	1	26.0	35	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
ARE16-1036S ARE16-1042S ARE16-1048S ARE16-1060S	1	3.2	15	1	2.0	15	1	9.5	15
ARE16-2060S ARE16-2072S ARE16-2078S ARE16-2084S ARE16-2096S	1	6.4	15	1	4.0	15	1	19.0	25
ARE16-3096S ARE16-3108S ARE16-3120S ARE16-3132S ARE16-3144S	1	9.6	15	1	6.0	15	1	28.5	40
ARE16-4144S	1	12.8	20	1	8.0	15	1	38.0	50

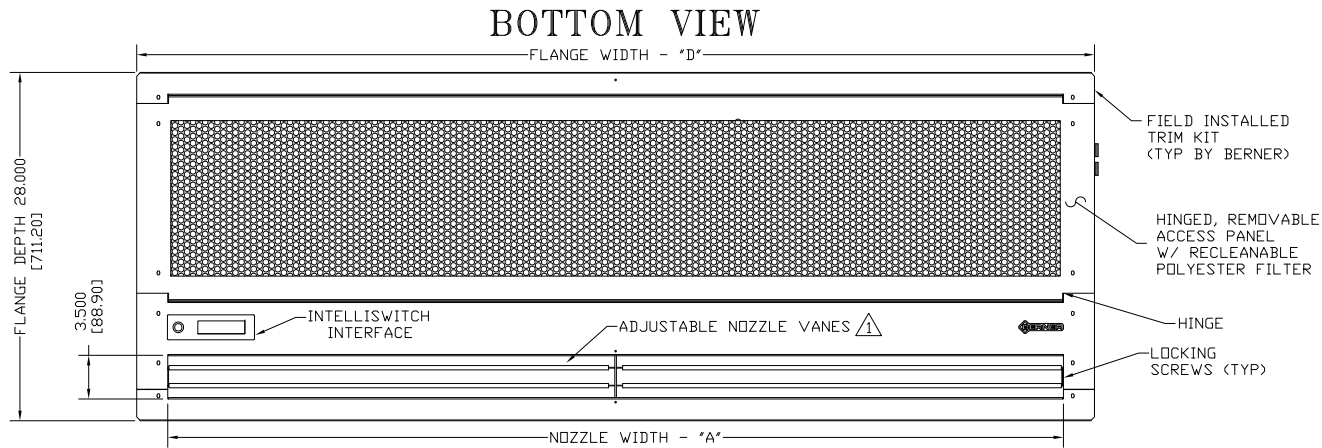
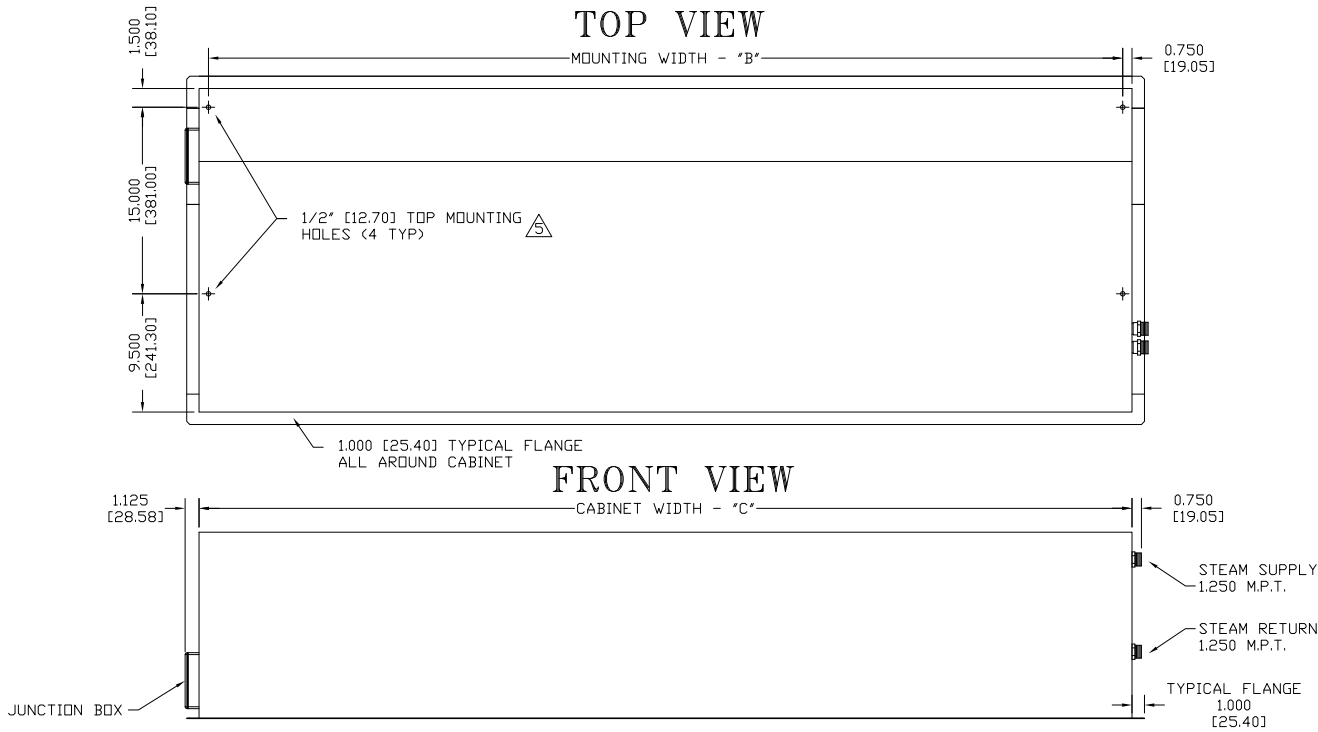
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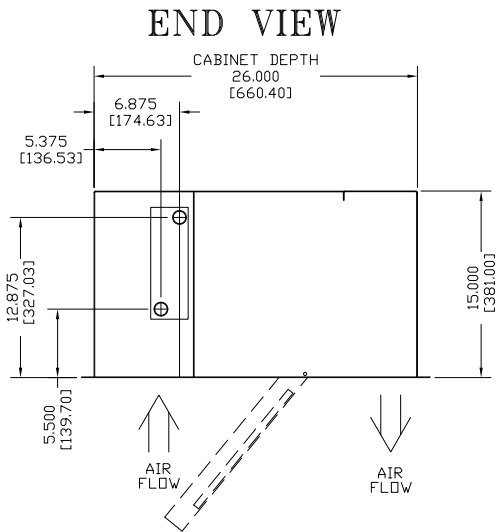
EP-254
July, 2025

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ARE16 IN-CEILING MOUNT STEAM HEATED



MODEL	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	CABINET WIDTH "C"	FLANGE WIDTH "D"	RECOMMENDED ROUGH OPENING DEPTH x WIDTH
ARE16-1036S	36.00 [914]	37.50 [953]	39.00 [991]	41.00 [1041]	27.00 x 40.00 [686 x 1016]
ARE16-1042S	42.00 [1067]	43.50 [1105]	45.00 [1143]	47.00 [1194]	27.00 x 46.00 [686 x 1168]
ARE16-1048S	48.00 [1219]	49.50 [1257]	51.00 [1295]	53.00 [1346]	27.00 x 52.00 [686 x 1321]
ARE16-1060S/2060S	66.00 [1676]	67.50 [1712]	69.00 [1753]	71.00 [1803]	27.00 x 70.00 [686 x 1778]
ARE16-2072S	72.00 [1829]	73.50 [1867]	75.00 [1905]	77.00 [1956]	27.00 x 76.00 [686 x 1930]
ARE16-2078S	78.00 [1981]	79.50 [2019]	81.00 [2057]	83.00 [2108]	27.00 x 82.00 [686 x 2083]
ARE16-2084S	84.00 [2133]	85.50 [2172]	87.00 [2210]	89.00 [2261]	27.00 x 88.00 [686 x 2235]
ARE16-2096S/3096S	99.00 [2515]	100.50 [2553]	102.00 [2591]	104.00 [2642]	27.00 x 103.00 [686 x 2616]
ARE16-3108S	108.00 [2743]	109.50 [2781]	111.00 [2819]	113.00 [2870]	27.00 x 112.00 [686 x 2845]
ARE16-3120S	117.00 [2972]	118.50 [3010]	120.00 [3048]	122.00 [3099]	27.00 x 121.00 [686 x 3073]
ARE16-3132S	132.00 [3353]	133.50 [3391]	135.00 [3429]	137.00 [3480]	27.00 x 136.00 [686 x 3454]
ARE16-3144S/4144S	144.00 [3658]	145.50 [3696]	147.00 [3734]	149.00 [3785]	27.00 x 148.00 [686 x 3759]



NOTES:

- AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT OBSTRUCTED WHEN DEFLECTED 20° TO EITHER SIDE OF 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 "S" IN MODEL NUMBER DESIGNATES STEAM HEATED UNIT.
- DIMENSIONS IN INCHES (MILLIMETERS).

PROJECT		
LOCATION		
ARCHITECT		
ENGINEER		REV. B
DWG. NO.	ARE16-STM	TITLE: BERNER
DATE	23JUN2025	MODEL ARE16 AIR CURTAIN STEAM HEATED SYSTEM
BY	S. Beil	
REPLACES	27MAY2025	
BY	S. Beil	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.