

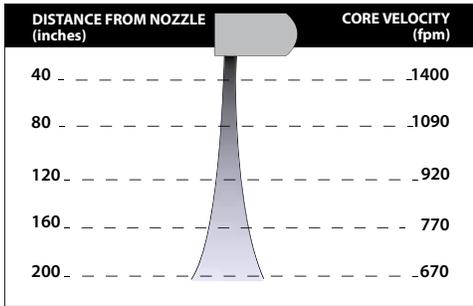


# ARCHITECTURAL RECESSED 12

## Steam Heated Air Curtain

### Data Sheet

**Vestibule Exception Compliance: up to 16 ft. AFF / Optimal Environmental Separation: up to 12 ft. AFF**



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 (steam heated) 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 ARE12-1060S is not licensed to bear the AMCA seal.

**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	Coil Output (MBH)	Inlet Pressure (PSIG)	Condensate (lbs/hr)	Air Temp. Rise (°F)	Net Wt. (lbs)
ARE12-1036S	36.00	4,830	1,439	1,259	75%	0.54	1 @ 1/2	58.1	5	59.9	43°	126
ARE12-1042S	42.00	5,773	1,233	1,259	66%	0.62	1 @ 1/2	62.9	5	64.8	46°	136
ARE12-1048S	48.00	7,300	1,079	1,259	77%	0.59	1 @ 1/2	67.1	5	69.2	49°	145
ARE12-1060S	66.00	4,828	1,027	1,647	83%	0.52	1 @ 1/2	90.7	5	93.5	51°	177
ARE12-2060S	66.00	3,982	1,408	2,258	76%	0.89	2 @ 1/2	108.0	5	111.3	44°	214
ARE12-2072S	72.00	4,830	1,439	2,518	75%	1.08	2 @ 1/2	120.3	5	124.0	44°	229
ARE12-2078S	78.00	5,773	1,328	2,518	66%	1.16	2 @ 1/2	125.1	5	128.9	46°	238
ARE12-2084S	84.00	5,773	1,233	2,518	66%	1.24	2 @ 1/2	129.5	5	133.4	47°	247
ARE12-2096S	99.00	7,300	1,046	2,518	77%	1.18	2 @ 1/2	137.5	5	141.8	50°	264
ARE12-3096S	99.00	3,982	1,462	3,517	75%	1.43	3 @ 1/2	165.3	5	170.4	43°	304
ARE12-3108S	108.00	4,830	1,439	3,777	75%	1.62	3 @ 1/2	180.1	5	185.6	44°	337
ARE12-3120S	117.00	4,830	1,328	3,777	66%	1.78	3 @ 1/2	188.0	5	193.7	46°	354
ARE12-3132S	132.00	5,773	1,177	3,777	66%	1.83	3 @ 1/2	198.7	5	204.8	49°	376
ARE12-3144S	144.00	7,300	1,079	3,777	77%	1.77	3 @ 1/2	206.6	5	213.0	50°	393
ARE12-4144S	144.00	4,830	1,439	5,036	75%	2.16	4 @ 1/2	242.3	5	249.7	44°	449

See sheet EP-244 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 ARE12-1060S, exists only as an equivalent to competitors' models.

## MODEL NUMBER CONFIGURATION

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

Series	# of Motors	Opening Width	Heat	Voltage	Berner AIR	Opt. Data Link	Opt. Display	Opt. Cabinet Finish
ARE12	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	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
- 1/2 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
- Factory installed coil
- Filter (washable)

**OPTIONS**

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

VELOCITY PROJECTION: Model ARE12-1036S					
Distance from Nozzle (in)	40	80	120	160	200
Core Velocity (fpm)	1400	1090	920	770	670
Uniformity (%)	81	92	93	91	90

ASHRAE 90.1-2019 vestibule exception requires, "a jet velocity of not less than 6.6 feet per second (400 fpm; 2.0 m/s) at 6.0 in (15 cm) above the floor."

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.



# ARCHITECTURAL RECESSED 12 - AC MOTORS

## Steam Heated Air Curtain Electrical Performance Sheet

MODEL	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		
	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
ARE12-1036S ARE12-1042S ARE12-1048S ARE12-1060S	1	8.5	15	1	4.3	15	1	4.3	15
ARE12-2060S ARE12-2072S ARE12-2078S ARE12-2084S ARE12-2096S	1	17.0	25	1	8.6	15	1	8.6	15
ARE12-3096S ARE12-3108S ARE12-3120S ARE12-3132S ARE12-3144S	1	25.5	35	1	12.9	20	1	12.9	20
ARE12-4144S	1	34.0	45	1	17.2	25	1	17.2	25

*Berner reserves the right to alter specifications without prior notice.*

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111 Progress Ave. / New Castle / PA / 16101 / USA

EP-244  
July, 2025

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# ARCHITECTURAL RECESSED 12 - AC MOTORS

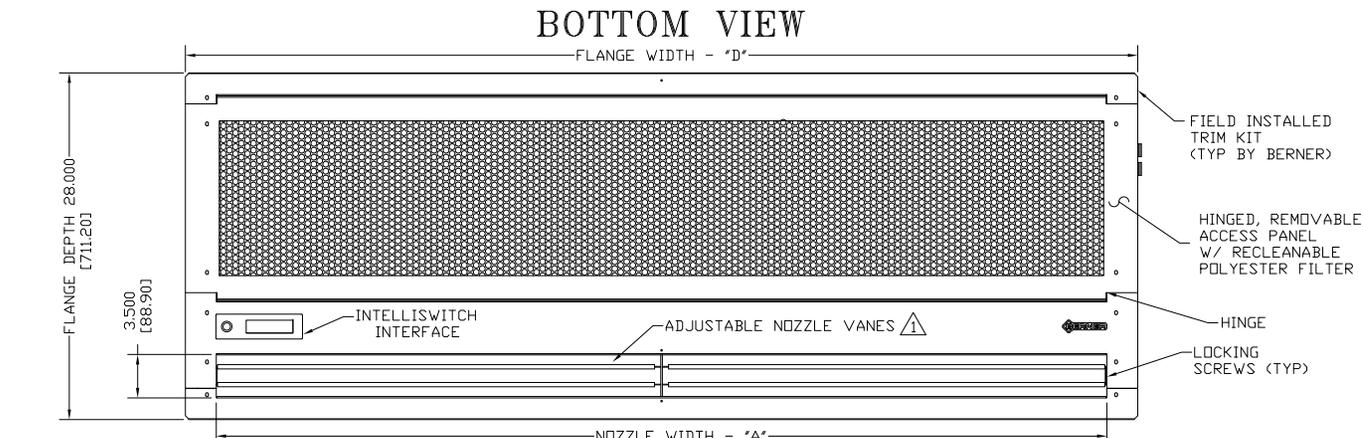
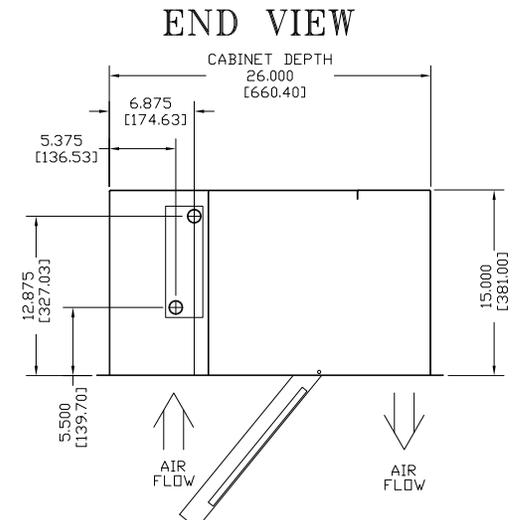
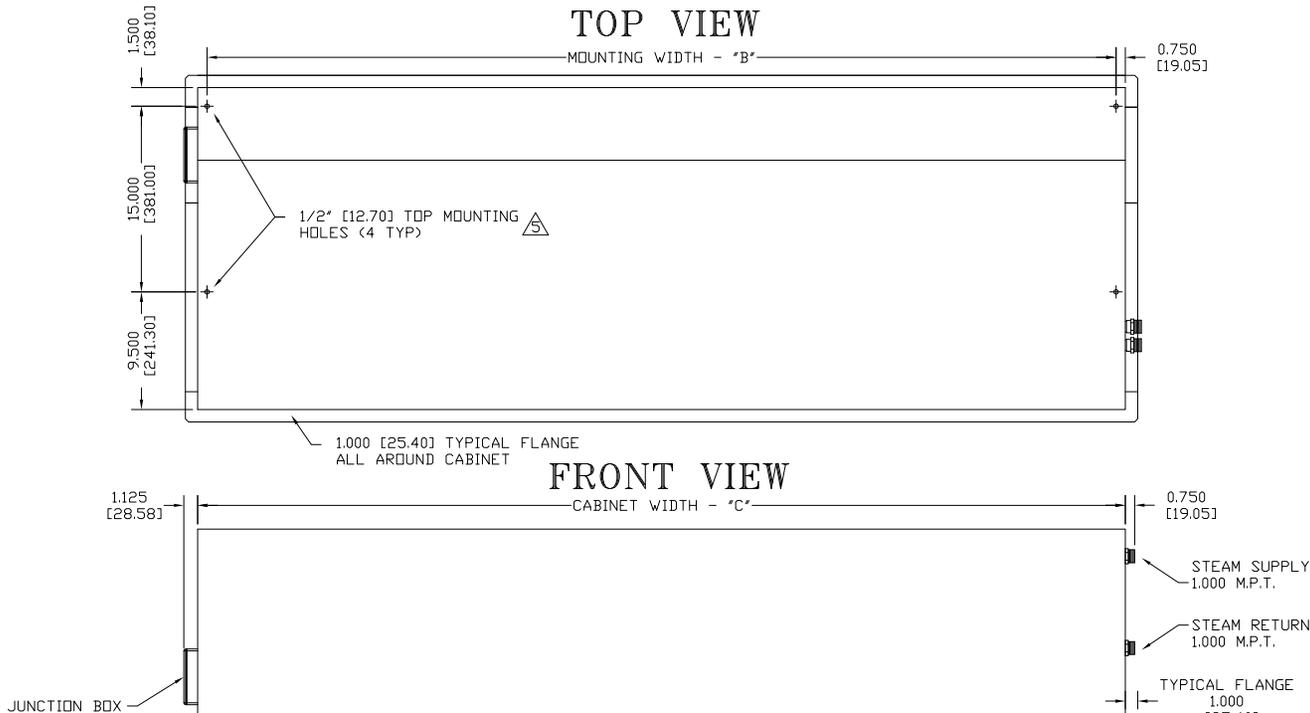
## Steam Heated Air Curtain Electrical Performance Sheet

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

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# ARE12

## ARCHITECTURAL RECESSED 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 (MILLIMETERS).

MODEL	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	CABINET WIDTH "C"	FLANGE WIDTH "D"	RECOMMENDED ROUGH OPENING DEPTH x WIDTH
ARE12-1036S	36.00 [914]	37.50 [953]	39.00 [991]	41.00 [1041]	27.00 x 40.00 [686 x 1016]
ARE12-1042S	42.00 [1067]	43.50 [1105]	45.00 [1143]	47.00 [1194]	27.00 x 46.00 [686 x 1168]
ARE12-1048S	48.00 [1219]	49.50 [1257]	51.00 [1295]	53.00 [1346]	27.00 x 52.00 [686 x 1321]
ARE12-1060S/2060S	66.00 [1676]	67.50 [1712]	69.00 [1753]	71.00 [1803]	27.00 x 70.00 [686 x 1778]
ARE12-2072S	72.00 [1829]	73.50 [1867]	75.00 [1905]	77.00 [1956]	27.00 x 76.00 [686 x 1930]
ARE12-2078S	78.00 [1981]	79.50 [2019]	81.00 [2057]	83.00 [2108]	27.00 x 82.00 [686 x 2083]
ARE12-2084S	84.00 [2133]	85.50 [2172]	87.00 [2210]	89.00 [2261]	27.00 x 88.00 [686 x 2235]
ARE12-2096S/3096S	99.00 [2515]	100.50 [2553]	102.00 [2591]	104.00 [2642]	27.00 x 103.00 [686 x 2616]
ARE12-3108S	108.00 [2743]	109.50 [2781]	111.00 [2819]	113.00 [2870]	27.00 x 112.00 [686 x 2845]
ARE12-3120S	117.00 [2972]	118.50 [3010]	120.00 [3048]	122.00 [3099]	27.00 x 121.00 [686 x 3073]
ARE12-3132S	132.00 [3353]	133.50 [3391]	135.00 [3429]	137.00 [3480]	27.00 x 136.00 [686 x 3454]
ARE12-3144S/4144S	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-STM	TITLE: <b>BERNER</b>
DATE	23JUN2025	MODEL ARE12 AIR CURTAIN STEAM HEATED SYSTEM
BY	S. Beil	
REPLACES	27MAY2025	
BY	S. Beil	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.