



ARCHITECTURAL RECESSED 16

Hot Water 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)	Entering / Leaving Water Temp. (°F)	Water Flow (GPM)	Fluid Pressure Drop (FT. WG.)	Air Temp. Rise (°F)	Net Wt. (lbs)
ARE16-1036W	36.00	6,250	2,368	2,072	90%	0.91	1 @ 1	45.0	180° / 167°	6.5	0.8	20°	131
ARE16-1042W	42.00	5,594	2,208	2,254	88%	0.96	1 @ 1	51.6	180° / 166°	7.0	1.0	21°	141
ARE16-1048W	48.00	5,627	2,015	2,351	77%	1.09	1 @ 1	58.7	180° / 167°	8.5	1.5	23°	150
ARE16-1060W	66.00	5,401	1,502	2,410	73%	1.12	1 @ 1	69.8	180° / 164°	8.5	1.6	26°	181
ARE16-2060W	66.00	4,440	2,446	3,924	92%	1.79	2 @ 1	93.7	180° / 167°	14.0	4.3	22°	221
ARE16-2072W	72.00	6,250	2,368	4,144	90%	1.82	2 @ 1	100.4	180° / 166°	13.5	4.1	22°	235
ARE16-2078W	78.00	5,594	2,282	4,326	88%	1.87	2 @ 1	107.7	180° / 166°	14.5	4.9	23°	245
ARE16-2084W	84.00	5,594	2,208	4,508	88%	1.92	2 @ 1	116.6	180° / 167°	17.0	6.8	24°	254
ARE16-2096W	99.00	5,627	1,954	4,702	77%	2.18	2 @ 1	124.3	180° / 164°	15.0	5.7	24°	271
ARE16-3096W	99.00	6,250	2,492	5,996	90%	2.70	3 @ 1	143.1	180° / 166°	19.0	8.9	22°	313
ARE16-3108W	108.00	6,250	2,368	6,216	90%	2.73	3 @ 1	154.9	180° / 166°	21.0	11.3	23°	346
ARE16-3120W	117.00	5,594	2,314	6,580	88%	2.83	3 @ 1	164.6	180° / 164°	20.0	10.7	23°	363
ARE16-3132W	132.00	5,627	2,138	6,859	77%	3.01	3 @ 1	178.9	180° / 164°	21.0	12.5	24°	385
ARE16-3144W	144.00	5,627	2,015	7,053	77%	3.27	3 @ 1	191.3	180° / 164°	23.0	15.6	25°	402
ARE16-4144W	144.00	6,250	2,368	8,288	90%	3.64	4 @ 1	206.4	180° / 164°	24.0	16.9	23°	460

See sheet EP-256 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 entering air & water temperatures or GPM's.
- Berner does not recommend ARE16-1060W, exists only as an equivalent to competitors' models.

MODEL NUMBER CONFIGURATION

ARE16-1 036 W 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"	W=Hot Water 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 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-256
July, 2025



ARCHITECTURAL RECESSED 16 - AC MOTORS

Hot Water 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
ARE16-1036W ARE16-1042W ARE16-1048W ARE16-1060W	1	12.6	20	1	6.5	15	1	6.5	15	1	9.5	15
ARE16-2060W ARE16-2072W ARE16-2078W ARE16-2084W ARE16-2096W	1	25.2	35	1	13.0	20	1	13.0	20	1	19.0	25
ARE16-3096W ARE16-3108W ARE16-3120W ARE16-3132W ARE16-3144W	1	37.8	50	1	19.5	30	1	19.5	30	1	28.5	40
ARE16-4144W	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
ARE16-1036W ARE16-1042W ARE16-1048W ARE16-1060W	1	3.2	15	1	2.0	15	1	9.5	15
ARE16-2060W ARE16-2072W ARE16-2078W ARE16-2084W ARE16-2096W	1	6.4	15	1	4.0	15	1	19.0	25
ARE16-3096W ARE16-3108W ARE16-3120W ARE16-3132W ARE16-3144W	1	9.6	15	1	6.0	15	1	28.5	40
ARE16-4144W	1	12.8	20	1	8.0	15	1	38.0	50

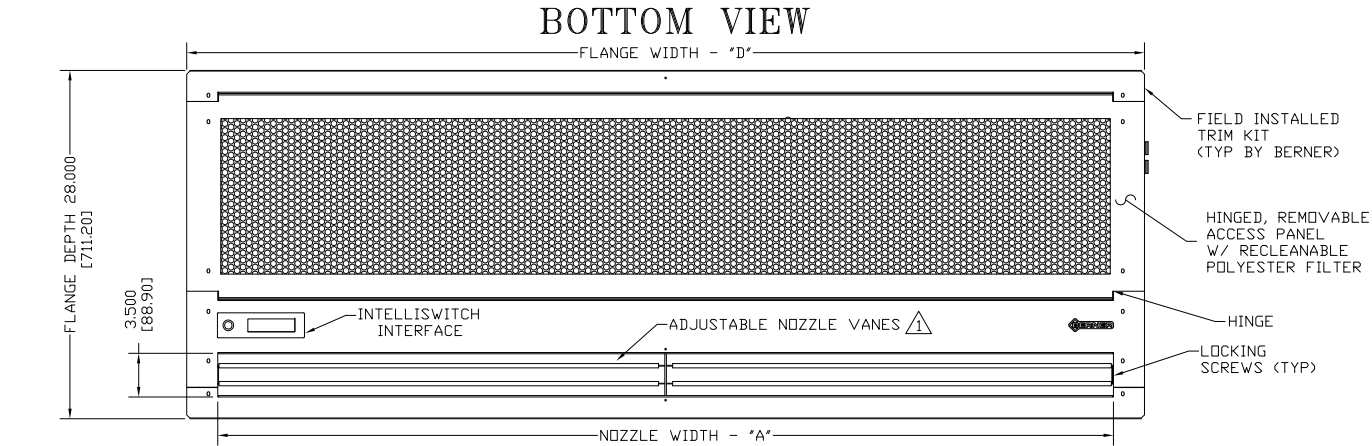
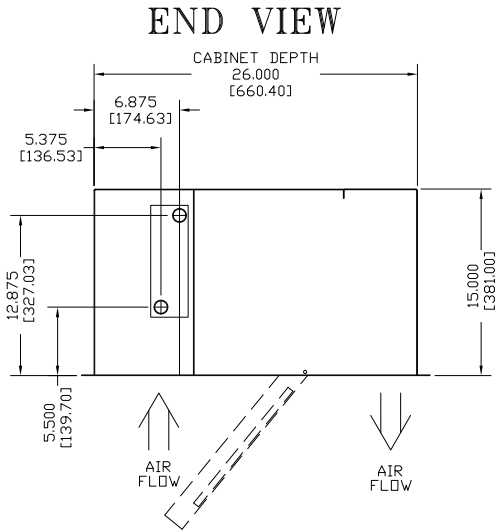
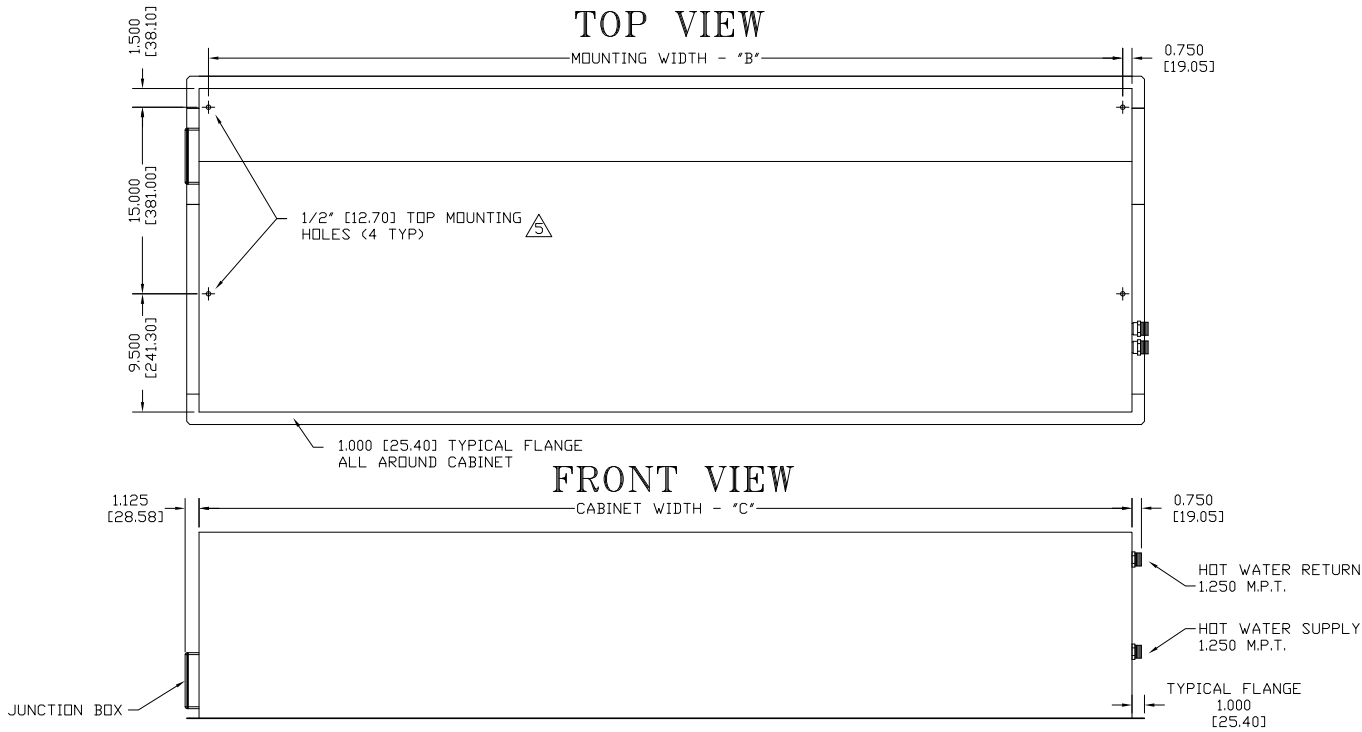
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www.berner.com **Berner International** 800.245-4455
111 Progress Ave. / New Castle / PA / 16101 / USA

EP-256
July, 2025

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ARE16
IN-CEILING MOUNT
HOT WATER 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 "W" IN MODEL NUMBER DESIGNATES HOT WATER 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
ARE16-1036W	36.00 [914]	37.50 [953]	39.00 [991]	41.00 [1041]	27.00 x 40.00 [686 x 1016]
ARE16-1042W	42.00 [1067]	43.50 [1105]	45.00 [1143]	47.00 [1194]	27.00 x 46.00 [686 x 1168]
ARE16-1048W	48.00 [1219]	49.50 [1257]	51.00 [1295]	53.00 [1346]	27.00 x 52.00 [686 x 1321]
ARE16-1060W/2060W	66.00 [1676]	67.50 [1712]	69.00 [1753]	71.00 [1803]	27.00 x 70.00 [686 x 1778]
ARE16-2072W	72.00 [1829]	73.50 [1867]	75.00 [1905]	77.00 [1956]	27.00 x 76.00 [686 x 1930]
ARE16-2078W	78.00 [1981]	79.50 [2019]	81.00 [2057]	83.00 [2108]	27.00 x 82.00 [686 x 2083]
ARE16-2084W	84.00 [2133]	85.50 [2172]	87.00 [2210]	89.00 [2261]	27.00 x 88.00 [686 x 2235]
ARE16-2096W/3096W	99.00 [2515]	100.50 [2553]	102.00 [2591]	104.00 [2642]	27.00 x 103.00 [686 x 2616]
ARE16-3108W	108.00 [2743]	109.50 [2781]	111.00 [2819]	113.00 [2870]	27.00 x 112.00 [686 x 2845]
ARE16-3120W	117.00 [2972]	118.50 [3010]	120.00 [3048]	122.00 [3099]	27.00 x 121.00 [686 x 3073]
ARE16-3132W	132.00 [3353]	133.50 [3391]	135.00 [3429]	137.00 [3480]	27.00 x 136.00 [686 x 3454]
ARE16-3144W/4144W	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.	ARE16-WTR	TITLE: BERNER
DATE	23JUN2025	MODEL ARE16 AIR CURTAIN HOT WATER HEATED SYSTEM
BY	S. Beil	
REPLACES	27MAY2025	
BY	S. Beil	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.