



ARCHITECTURAL RECESSED 12

Hot Water Heated Air Curtain

Data Sheet

Recommended for Mounting Heights to 12' (environmental separation)

Vestibule Exception for Energy Codes ASHRAE 90.1-2019, IECC 2018, and ASHRAE 189.1, validated by AMCA certification.

VELOCITY PROJECTION: Model ARE12-1036W

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."



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 (hot water 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.

Model ARE12-1060W is not licensed to bear the AMCA seal.

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)
ARE12-1036W	36.00	4,830	1,439	1,259	75%	0.54	1 @ 1/2	34.1	180° / 165°	4.5	0.6	25°	126
ARE12-1042W	42.00	5,773	1,233	1,259	66%	0.62	1 @ 1/2	38.5	180° / 167°	5.5	0.9	28°	136
ARE12-1048W	48.00	7,300	1,079	1,259	77%	0.59	1 @ 1/2	41.8	180° / 167°	6.0	1.1	30°	145
ARE12-1060W	66.00	4,828	1,027	1,647	83%	0.52	1 @ 1/2	55.0	180° / 162°	6.0	1.2	31°	177
ARE12-2060W	66.00	3,982	1,408	2,258	76%	0.89	2 @ 1/2	67.1	180° / 164°	8.0	2.1	27°	214
ARE12-2072W	72.00	4,830	1,439	2,518	75%	1.08	2 @ 1/2	75.5	180° / 164°	9.0	2.7	27°	229
ARE12-2078W	78.00	5,773	1,328	2,518	66%	1.16	2 @ 1/2	78.3	180° / 163°	9.0	2.8	28°	238
ARE12-2084W	84.00	5,773	1,233	2,518	66%	1.24	2 @ 1/2	83.6	180° / 165°	11.0	4.2	30°	247
ARE12-2096W	99.00	7,300	1,046	2,518	77%	1.18	2 @ 1/2	88.6	180° / 165°	11.0	4.4	32°	264
ARE12-3096W	99.00	3,982	1,462	3,517	75%	1.43	3 @ 1/2	107.3	180° / 165°	13.5	6.5	28°	304
ARE12-3108W	108.00	4,830	1,439	3,777	75%	1.62	3 @ 1/2	116.6	180° / 164°	14.0	7.2	28°	337
ARE12-3120W	117.00	4,830	1,328	3,777	66%	1.78	3 @ 1/2	122.6	180° / 164°	15.0	8.4	30°	354
ARE12-3132W	132.00	5,773	1,177	3,777	66%	1.83	3 @ 1/2	129.0	180° / 163°	15.0	8.8	31°	376
ARE12-3144W	144.00	7,300	1,079	3,777	77%	1.77	3 @ 1/2	132.3	180° / 162°	14.0	8.0	32°	393
ARE12-4144W	144.00	4,830	1,439	5,036	75%	2.16	4 @ 1/2	159.3	180° / 164°	19.0	14.4	29°	449

NOTES:

- Operation at 50 Hz will generate approximately a 17% reduction in performance.
 - Coil performance based on 65°F entering air temperature.
 - Standard connection same end supply/return (Optional: opposite end supply/return).
 - 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.
 - Maximum leaving air temperature shall not exceed 120°F.
 - Consult factory for alternate entering air & water temperatures, GPM's, and opposite end supply/return connections performance data.
- Berner does not recommend ARE12-1060W, exists only as an equivalent to competitors' models.

See sheet EP-246 for amp draws/total load requirements

MODEL NUMBER CONFIGURATION

ARE12-1 036 W A -CB-D-R-SS

Series	# of Motors	Opening Width	Heat	Voltage	Berner AIR	Opt. Data Link	Opt. Display	Opt. Cabinet Finish
ARE12	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=220/1/50 O=380/3/50	CB=BASIC (Std.) CM=BMS	D=Physical Interconnect (daisy chain)	R=Remote Display TB=Tablet	SS=Stainless Steel CC=Custom Color

STANDARD CONSTRUCTION

- 15" high x 26" deep
- 1/2 hp motor(s) - ten speeds
- 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)

*Suitable for 50hz

for Standard offering, leave options (Opt.) blank

OPTIONS

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

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.D

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

DS-246D
January, 2025

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 220/1/50 (voltage code V) AC MOTOR AMP DRAW = 4.3 each		
MODEL	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
ARE12-1036W ARE12-1042W ARE12-1048W ARE12-1060W	1	8.5	15	1	4.3	15	1	4.3	15
ARE12-2060W ARE12-2072W ARE12-2078W ARE12-2084W ARE12-2096W	1	17.0	25	1	8.6	15	1	8.6	15
ARE12-3096W ARE12-3108W ARE12-3120W ARE12-3132W ARE12-3144W	1	25.5	35	1	12.9	20	1	12.9	20
ARE12-4144W	1	34.0	45	1	17.2	25	1	17.2	25



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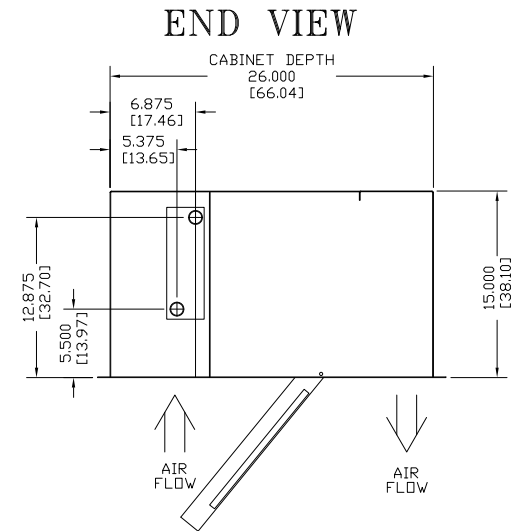
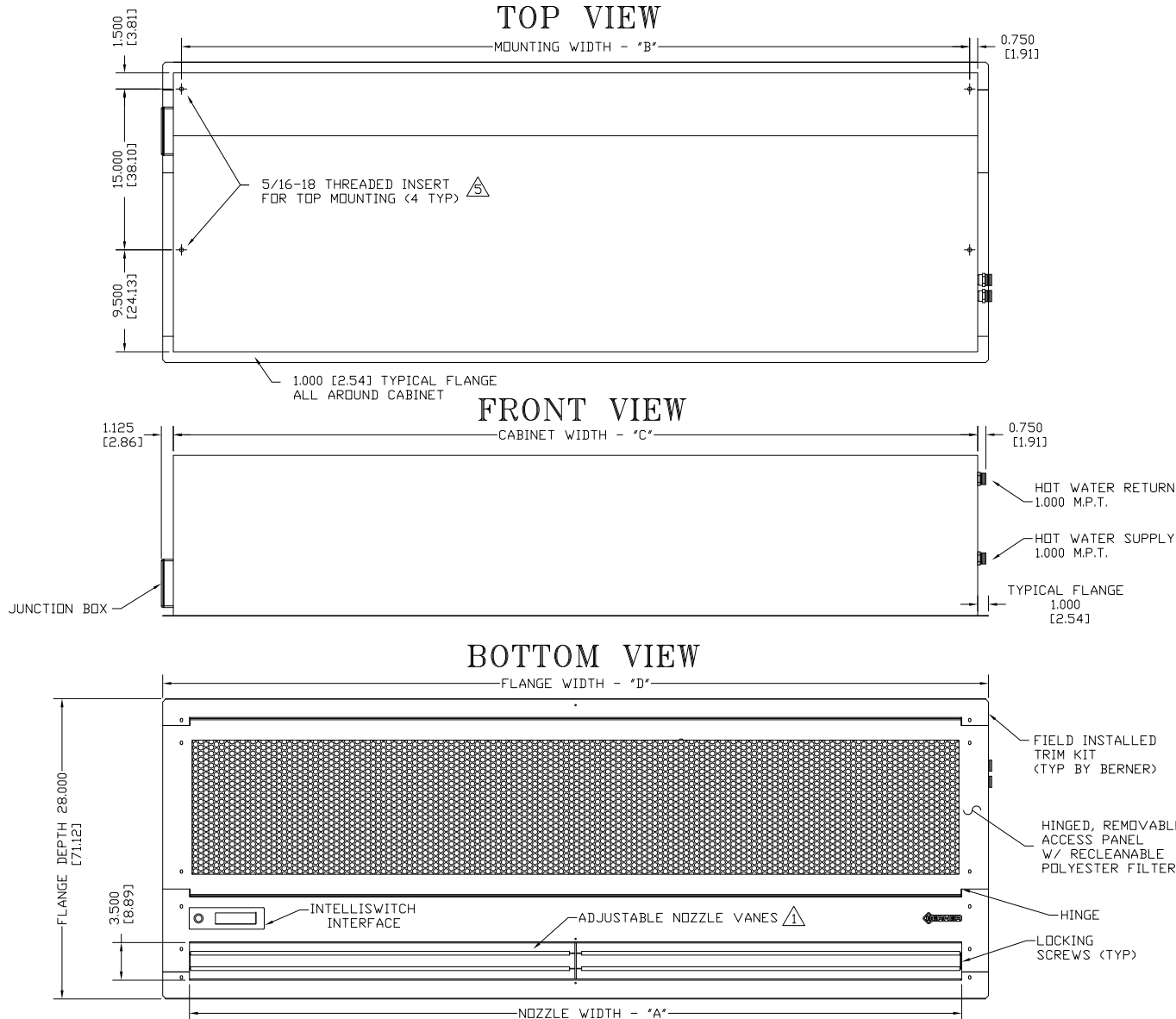
Electrical Performance Sheet

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

ARE12

ARCHITECTURAL RECESSED

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
ARE12-1036W	36.00 [914]	37.50 [953]	39.00 [991]	41.00 [1041]	27.00 x 40.00 [686 x 1016]
ARE12-1042W	42.00 [1067]	43.50 [1105]	45.00 [1143]	47.00 [1194]	27.00 x 46.00 [686 x 1168]
ARE12-1048W	48.00 [1219]	49.50 [1257]	51.00 [1295]	53.00 [1346]	27.00 x 52.00 [686 x 1321]
ARE12-1060W/2060W	66.00 [1676]	67.50 [1712]	69.00 [1753]	71.00 [1803]	27.00 x 70.00 [686 x 1778]
ARE12-2072W	72.00 [1829]	73.50 [1867]	75.00 [1905]	77.00 [1956]	27.00 x 76.00 [686 x 1930]
ARE12-2078W	78.00 [1981]	79.50 [2019]	81.00 [2057]	83.00 [2108]	27.00 x 82.00 [686 x 2083]
ARE12-2084W	84.00 [2133]	85.50 [2172]	87.00 [2210]	89.00 [2261]	27.00 x 88.00 [686 x 2235]
ARE12-2096W/3096W	99.00 [2515]	100.50 [2553]	102.00 [2591]	104.00 [2642]	27.00 x 103.00 [686 x 2616]
ARE12-3108W	108.00 [2743]	109.50 [2781]	111.00 [2819]	113.00 [2870]	27.00 x 112.00 [686 x 2845]
ARE12-3120W	117.00 [2972]	118.50 [3010]	120.00 [3048]	122.00 [3099]	27.00 x 121.00 [686 x 3073]
ARE12-3132W	132.00 [3353]	133.50 [3391]	135.00 [3429]	137.00 [3480]	27.00 x 136.00 [686 x 3454]
ARE12-3144W/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. -
DWG. NO.	ARE12-WTR	TITLE: BERNER
DATE	08DEC2025	MODEL AED12 AIR CURTAIN
BY	S. Beil	HOT WATER HEATED SYSTEM
REPLACES	-	
BY	-	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.