

For Door Heights To 12' (environmental separation)

STANDARD CONSTRUCTION

- 15" high x 26" deep
- ½ hp three speed motor(s)
- Factory installed Intelliswitch digital controller
- White aluminum exterior panel
(Optional: Custom Color or Stainless)
- Top Mounting only
- High efficiency, low noise Pro-V Nozzle
- Filter (washable)

- Coil Features:
 - Galvanized steel casing
 - 5/8" copper tube with .035" wall
 - Aluminum fins
 - Leak tested at 450 psi

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)	Entering / Leaving Water Temp. (°F)	Water Flow (GPM)	Fluid Pressure Drop (FT. WG.)	Air Temp. Rise (°F)	Net Wt. (lbs)
ARC12-1036W	36.00	5,444	1,573	1,376	92%	0.47	1 @ 1/2	36.8	180° / 163°	4.5	0.5	24°	133
ARC12-1042W	42.00	4,828	1,549	1,581	85%	0.49	1 @ 1/2	44.2	180° / 163°	5.5	0.8	26°	143
ARC12-1048W	48.00	4,839	1,377	1,607	87%	0.51	1 @ 1/2	48.5	180° / 163°	6.0	1.0	28°	152
ARC12-1060W	66.00	4,828	1,027	1,647	83%	0.52	1 @ 1/2	54.6	180° / 161°	6.0	1.0	30°	180
ARC12-2060W	66.00	5,202	1,674	2,686	91%	0.92	2 @ 1/2	71.6	180° / 162°	8.0	1.8	24°	217
ARC12-2072W	72.00	5,444	1,573	2,752	92%	0.94	2 @ 1/2	81.4	180° / 161°	9.0	2.4	27°	233
ARC12-2084W	84.00	4,828	1,549	3,162	85%	0.98	2 @ 1/2	96.3	180° / 162°	11.0	3.7	28°	251
ARC12-2096W	99.00	4,839	1,336	3,214	87%	1.02	2 @ 1/2	102.9	180° / 161°	11.0	3.9	29°	268
ARC12-3096W	99.00	5,202	1,688	4,062	91%	1.39	3 @ 1/2	118.5	180° / 162°	13.5	5.8	27°	308
ARC12-2108W	108.00	4,828	1,240	3,254	83%	1.03	2 @ 1/2	109.6	180° / 161°	12.0	4.8	31°	291
ARC12-3108W	108.00	5,444	1,573	4,128	92%	1.41	3 @ 1/2	125.6	180° / 162°	14.0	6.4	28°	341
ARC12-2120W	117.00	4,828	1,158	3,294	83%	1.04	2 @ 1/2	114.5	180° / 160°	12.0	4.9	32°	314
ARC12-3120W	117.00	4,828	1,596	4,538	85%	1.45	3 @ 1/2	138.0	180° / 161°	15.0	7.6	28°	358
ARC12-3132W	132.00	4,828	1,486	4,769	85%	1.49	3 @ 1/2	148.9	180° / 160°	15.0	7.9	29°	378
ARC12-3144W	144.00	4,839	1,377	4,821	87%	1.53	3 @ 1/2	153.4	180° / 158°	14.0	7.2	29°	395
ARC12-4144W	144.00	5,444	1,573	5,504	92%	1.88	4 @ 1/2	171.6	180° / 161°	19.0	13.0	28°	451

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 entering air & water temperatures, GPM's, and opposite end supply/return connections performance data.

Berner does not recommend ARC12-2120W, exists only as an equivalent to competitors' models.

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

MODEL NUMBER CONFIGURATION

ARC12-1 036 W A-R-SS

Series	# of Motors	Opening Width	Heat	Voltage	Opt. Display	Opt. Cabinet Finish
ARC12	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	Remote Display <i>Intelliswitch</i>	SS=Stainless Steel CC=Custom Color

*Suitable for 50hz

Berner reserves the right to alter specifications without prior notice.

Sound level measured 10' (3m) from the unit in free field:
 1 motor: Low/Medium/High Speed: 60/61/62 dBA
 2 motors: Low/Medium/High Speed: 63/64/65 dBA
 3 motors: Low/Medium/High Speed: 65/66/67 dBA
 4 motors: Low/Medium/High Speed: 66/67/68 dBA



ARCHITECTURAL RECESSED 12

Hot Water Heated Air Curtain

Electrical Performance Sheet

MODEL	120/1/60 (voltage code A) MOTOR AMP DRAW = 8.5 each			208/1/60 (voltage code B) or 220/1/50 (voltage code V) MOTOR AMP DRAW = 4.3 each			240/1/60 (voltage code J) 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
ARC12-1036W ARC12-1042W ARC12-1048W ARC12-1060W	1	8.5	15	1	4.3	15	1	4.3	15
ARC12-2060W ARC12-2072W ARC12-2084W ARC12-2096W ARC12-2108W ARC12-2120W	1	17.0	20	1	8.6	15	1	8.6	15
ARC12-3096W ARC12-3108W ARC12-3120W ARC12-3132W ARC12-3144W	1	25.5	30	1	12.9	15	1	12.9	15
ARC12-4144W	1	34.0	40	1	17.2	20	1	17.2	20

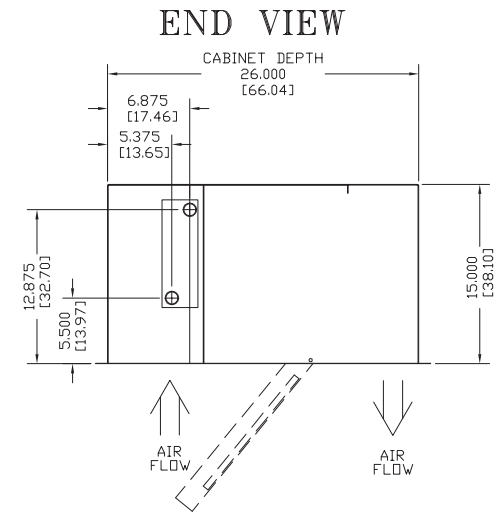
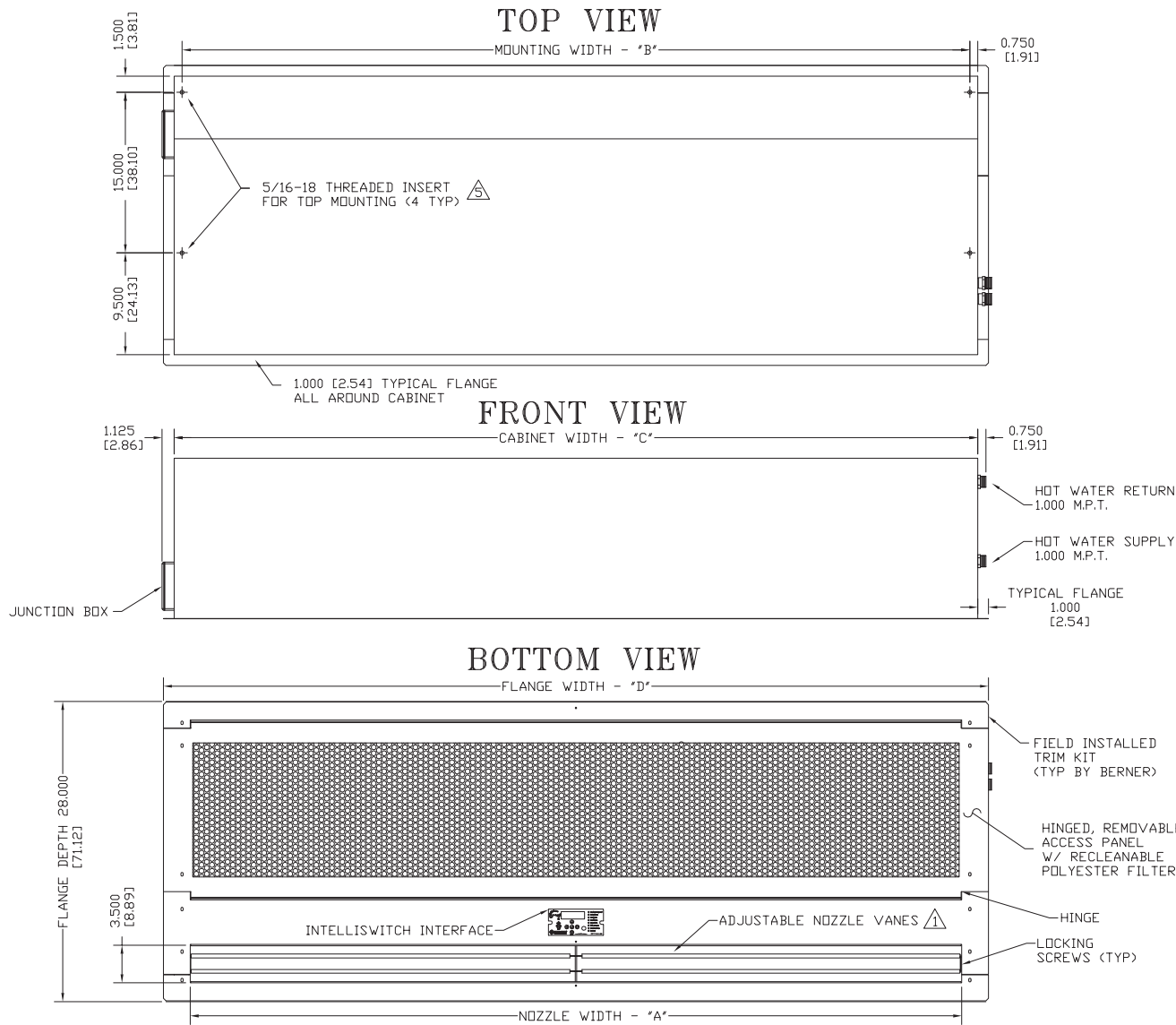
MODEL	480/3/60 (voltage code Z) MOTOR AMP DRAW = 1.4 each			600/3/60 (voltage code Q) MOTOR AMP DRAW = 1.0 each			380/3/50 (voltage code O) MOTOR AMP DRAW = 4.3 each		
	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
ARC12-1036W ARC12-1042W ARC12-1048W ARC12-1060W	1	1.4	15	1	1.0	15	1	4.3	15
ARC12-2060W ARC12-2072W ARC12-2084W ARC12-2096W ARC12-2108W ARC12-2120W	1	2.8	15	1	2.0	15	1	8.6	15
ARC12-3096W ARC12-3108W ARC12-3120W ARC12-3132W ARC12-3144W	1	4.2	15	1	3.0	15	1	12.9	15
ARC12-4144W	1	5.6	15	1	4.0	20	1	17.2	20

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

EP-246
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ARC12 IN-CEILING MOUNT HOT WATER HEATED



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 "W" IN MODEL NUMBER DESIGNATES HOT WATER HEATED UNIT.
- ⚠ DIMENSIONS IN INCHES [CENTIMETERS].

MODEL ⚠	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	CABINET WIDTH "C"	FLANGE WIDTH "D"	RECOMMENDED ROUGH OPENING DEPTH x WIDTH
ARC12-1036W	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]
ARC12-1042W	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]
ARC12-1048W	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]
ARC12-1060W/2060W	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]
ARC12-2072W	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]
ARC12-2084W	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]
ARC12-2096W/3096W	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]
ARC12-2108W/3108W	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]
ARC12-2120W/3120W	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]
ARC12-3132W	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]
ARC12-3144W/4144W	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. -
DWG. NO.	ARC12-WTR	TITLE: BERNER
DATE	22SEPT14	MODEL ARC12 AIR CURTAIN
BY	S. Beil	HOT WATER HEATED SYSTEM
REPLACES	-	
BY	-	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.