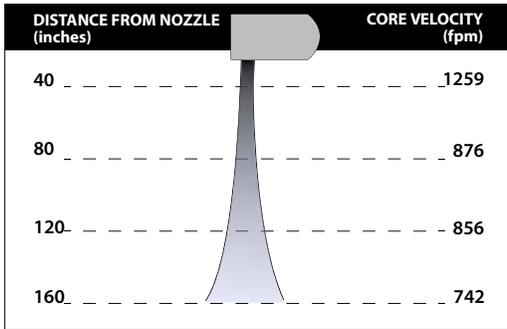


Vestibule Exception Compliance: up to 14 ft. AFF / Optimal Environmental Separation: up to 10 ft. AFF



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 (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.

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)
AC10-F-1036W	36.00	3,522	1,916	1,317	80%	0.49	1 @ ½	33.2	180°/163°	4.0	0.5	23°	107
AC10-F-1042W	42.00	3,429	1,709	1,371	82%	0.50	1 @ ½	36.8	180°/161°	4.0	0.5	25°	119
AC10-F-1048W	48.00	4,040	1,833	1,680	90%	0.63	1 @ ½	45.3	180°/161°	5.0	0.8	25°	138
AC10-F-1060W	59.00	4,146	1,541	1,736	85%	0.63	1 @ ½	55.1	180°/164°	7.0	1.6	29°	153
AC10-F-2072W	72.00	3,522	1,916	2,634	80%	0.98	2 @ ½	74.3	180°/161°	8.0	2.1	26°	210
AC10-F-2078W	78.00	3,522	1,805	2,688	80%	0.99	2 @ ½	77.9	180°/160°	8.0	2.2	26°	213
AC10-F-2084W	84.00	3,429	1,709	2,742	82%	1.00	2 @ ½	81.4	180°/159°	8.0	2.2	27°	234
AC10-F-2096W	96.00	4,040	1,833	3,360	90%	1.26	2 @ ½	98.9	180°/160°	10.0	3.6	27°	272
AC10-F-2108W	108.00	4,146	1,656	3,416	85%	1.26	2 @ ½	106.9	180°/160°	11.0	4.5	29°	287
AC10-F-2120W	118.00	4,146	1,541	3,472	85%	1.26	2 @ ½	113.7	180°/161°	12.0	5.5	30°	300
AC10-F-3132W	132.00	4,040	1,855	4,677	80%	1.75	3 @ ½	140.7	180°/159°	14.0	7.7	27°	375
AC10-F-3144W	144.00	4,040	1,833	5,040	90%	1.89	3 @ ½	153.0	180°/159°	15.0	9.1	28°	406

See sheets EP-276E-AC & EP-276E-EC for amp draws/total load requirements. 600/3/60 power supply includes extended cabinet, See drawing AC10-F-WTR-600

NOTES:

- Standard connection top, same 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.
- Coil performance based on 65°F entering air temperature.
- Maximum leaving air temperature shall not exceed 120F.
- Consult factory for alternate entering air & water temperatures or GPM's.
- Operation of standard motor (AC) at 50Hz will generate a 17% reduction in performance; no reduction for optional EC motors.

MODEL NUMBER CONFIGURATION

AC10-F-1 036 W A-AC-CB-D-R-SS

Series	Version	# of Motors	Opening Width	Heat	Voltage	Motor Type	Berner AIR	Opt. Data Link	Opt. Display	Opt. Cabinet Finish
AC10	F	1, 2, 3	036" - 144"	W=Hot Water Heated	AC & EC motors A = 120/1/60* B = 208/1/60 J = 240/1/60 V = 230/1/50 A-XI = 600/3/60 † W = 277/1/60	AC (Std.) EC (Opt.)	CB=BASIC (Std.) CM=BMS (Opt.)	D=Physical Interconnect (daisy chain)	R=Remote Display TB=Tablet	SS=Stainless Steel CC=Custom Color

STANDARD CONSTRUCTION

- 12 ¾" high x 25 ¾" deep
- 1/2 hp AC motor(s) - ten speeds
- Touchscreen interface with Intelliswitch™ digital controller, includes Berner AIR® BASIC (smart control)
- Clear satin anodized aluminum exterior
- Wall or Top Mounting
- High efficiency, low noise, articulating, three vane, Pro-V Nozzle
- Factory installed coil
- Filter (washable)

*Suitable for 50 Hz
† Add 12" to cabinet width for transformer

for Standard offering, leave options (Opt.) blank

VELOCITY PROJECTION: Model AC10-F-1036W				
Distance from Nozzle (in)	40	80	120	160
Core Velocity (fpm)	1259	876	856	742
Uniformity (%)	83%	88%	92%	96%

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."

OPTIONS

- 1/2 hp EC motor(s) - ten speeds
- Berner AIR® BMS (smart control with BACnet and Modbus capabilities)
- Custom Color or Stainless
- Rear cover for top mounting to conceal fasteners

Sound level measured 10' (3m) from the unit in free field:
 1 motor: Min./Max. Speed: 53/56 dBA
 2 motors: Min./Max. Speed: 56/59 dBA
 3 motors: Min./Max. Speed: 59/61 dBA

Sound data is not AMCA certified.

Berner reserves the right to alter specifications without prior notice.



ARCHITECTURAL CONTOUR 10 - AC MOTORS

Hot Water Heated Air Curtain Electrical Performance Sheet

MODEL	# CKTS	120/1/60 (voltage code A) AC MOTOR AMP DRAW = 8.5 each		# CKTS	208/1/60 (voltage code B) AC MOTOR AMP DRAW = 4.3 each		# CKTS	240/1/60 (voltage code J) or 230/1/50 (voltage code V) 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
AC10-F-1036W AC10-F-1042W AC10-F-1048W AC10-F-1060W	1	8.5	15	1	4.3	15	1	4.3	15
AC10-F-2072W AC10-F-2078W AC10-F-2084W AC10-F-2096W AC10-F-2108W AC10-F-2120W	1	17.0	25	1	8.6	15	1	8.6	15
AC10-F-3132W AC10-F-3144W	1	25.5	35	1	12.9	20	1	12.9	20

MODEL	# CKTS	277/1/60 (voltage code W) AC MOTOR AMP DRAW = 2.6 each		# CKTS	600/3/60 (voltage code A-XI) XFMR 600/120 1 kVA per MTR @ 1.7 each AC MOTOR AMP DRAW= 6.6 each @ 120V	
		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
AC10-F-1036W AC10-F-1042W AC10-F-1048W AC10-F-1060W	1	2.6	15	1	1.7	15
AC10-F-2072W AC10-F-2078W AC10-F-2084W AC10-F-2096W AC10-F-2108W AC10-F-2120W	1	5.2	15	1	3.3	15
AC10-F-3132W AC10-F-3144W	1	7.8	15	1	5.0	15

Berner reserves the right to alter specifications without prior notice.



ARCHITECTURAL CONTOUR 10 - EC MOTORS

Hot Water Heated Air Curtain Electrical Performance Sheet

MODEL	# CKTS	120/1/60 (voltage code A) EC MOTOR AMP DRAW = 6.6 each		# CKTS	208/1/60 (voltage code B) EC MOTOR AMP DRAW = 4.1 each		# CKTS	240/1/60 (voltage code J) or 230/1/50 (voltage code V) EC MOTOR AMP DRAW = 4.1 each	
		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
AC10-F-1036W AC10-F-1042W AC10-F-1048W AC10-F-1060W	1	6.6	15	1	4.1	15	1	4.1	15
AC10-F-2072W AC10-F-2078W AC10-F-2084W AC10-F-2096W AC10-F-2108W AC10-F-2120W	1	13.2	20	1	8.2	15	1	8.2	15
AC10-F-3132W AC10-F-3144W	1	19.8	25	1	12.3	20	1	12.3	20

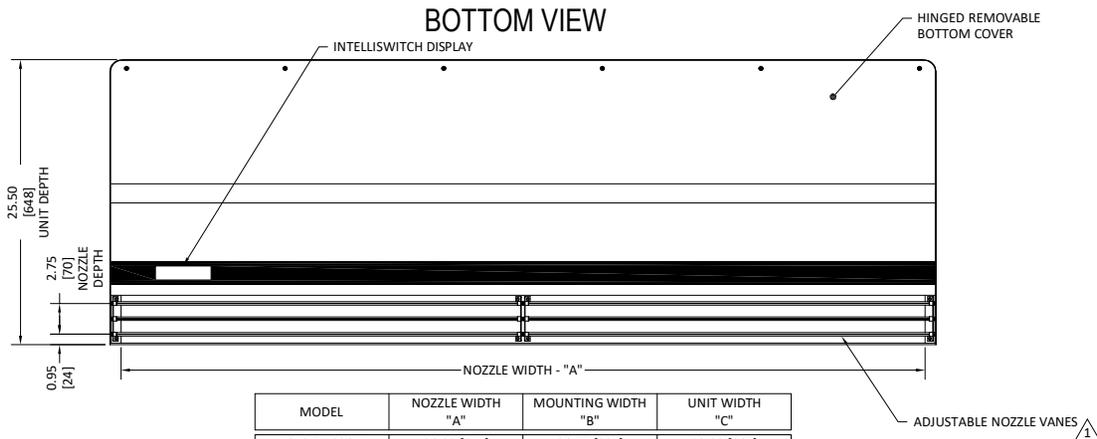
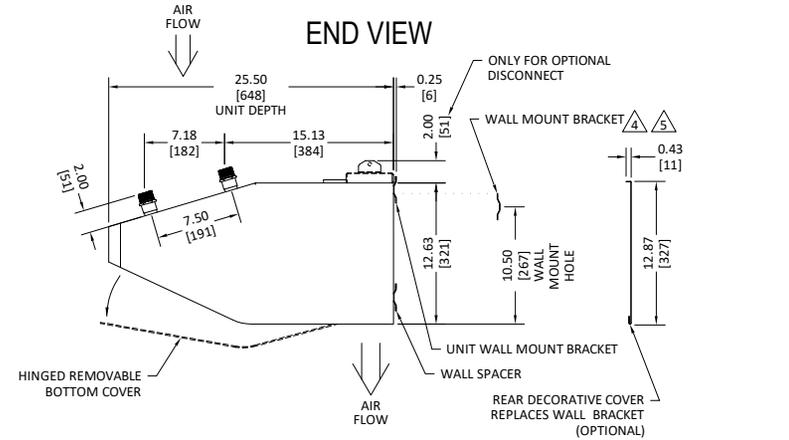
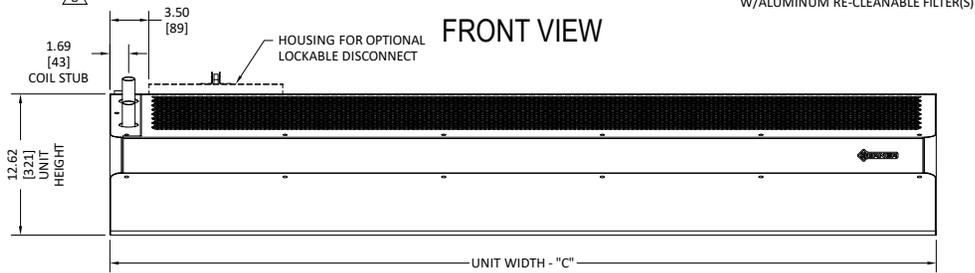
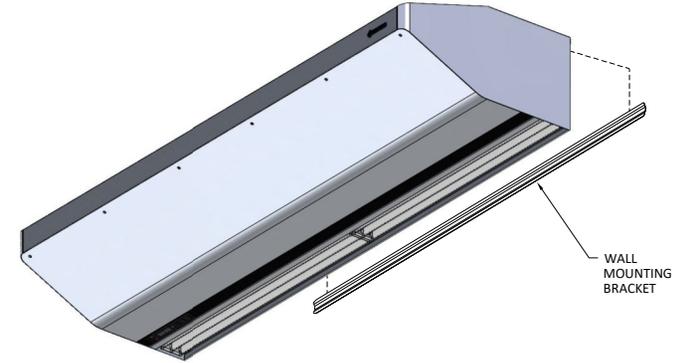
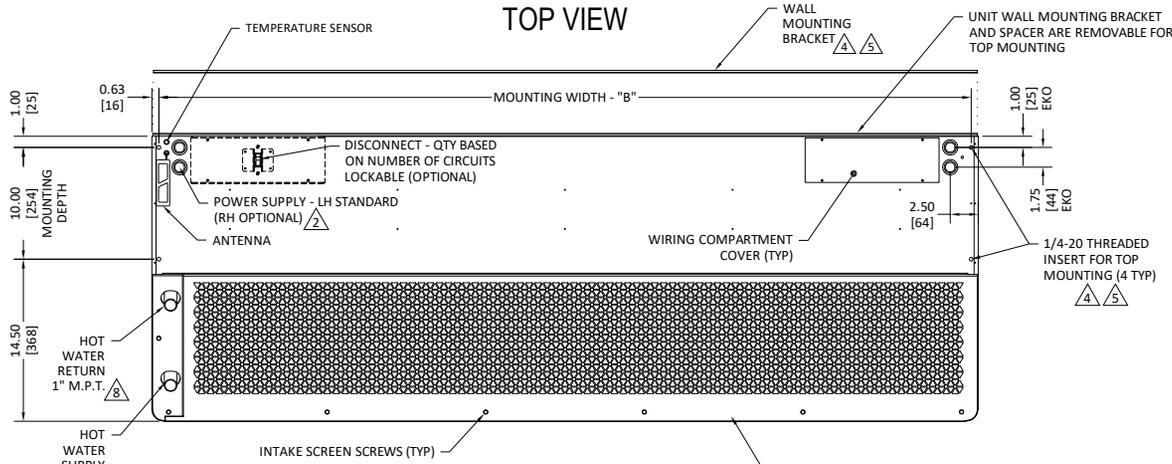
MODEL	# CKTS	277/1/60 (voltage code W) EC MOTOR AMP DRAW = 3.6 each		# CKTS	600/3/60 (voltage code A-XI) XFMR 600/120 1 kVA per MTR @ 1.7 each EC MOTOR AMP DRAW= 6.6 each @ 120V	
		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
AC10-F-1036W AC10-F-1042W AC10-F-1048W AC10-F-1060W	1	3.6	15	1	1.7	15
AC10-F-2072W AC10-F-2078W AC10-F-2084W AC10-F-2096W AC10-F-2108W AC10-F-2120W	1	7.2	15	1	3.3	15
AC10-F-3132W AC10-F-3144W	1	10.8	15	1	5.0	15

Berner reserves the right to alter specifications without prior notice.

Berner.com Berner Air Curtains 800.245.4455
111 Progress Ave. / New Castle / PA / 16101 / USA

EP-276E-EC
July, 2025

AC10-F WATER HEATED SYSTEM: 120 - 277V



MODEL	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	UNIT WIDTH "C"
AC10-F-1036W	36.00 [914]	36.75 [934]	38.00 [965]
AC10-F-1042W	42.00 [1067]	42.75 [1086]	44.00 [1118]
AC10-F-1048W	48.00 [1219]	48.75 [1238]	50.00 [1270]
AC10-F-1060W	59.00 [1499]	59.75 [1518]	61.00 [1549]
AC10-F-2072W	72.00 [1829]	72.75 [1848]	74.00 [1880]
AC10-F-2078W	78.00 [1981]	78.75 [2000]	80.00 [2032]
AC10-F-2084W	84.00 [2134]	84.75 [2153]	86.00 [2184]
AC10-F-2096W	96.00 [2438]	96.75 [2458]	98.00 [2489]
AC10-F-2108W	108.00 [2743]	108.75 [2762]	110.00 [2794]
AC10-F-2120W	118.00 [2997]	118.75 [3016]	120.00 [3048]
AC10-F-3132W	132.00 [3353]	132.75 [3372]	134.00 [3404]
AC10-F-3144W	144.00 [3658]	144.75 [3677]	146.00 [3708]

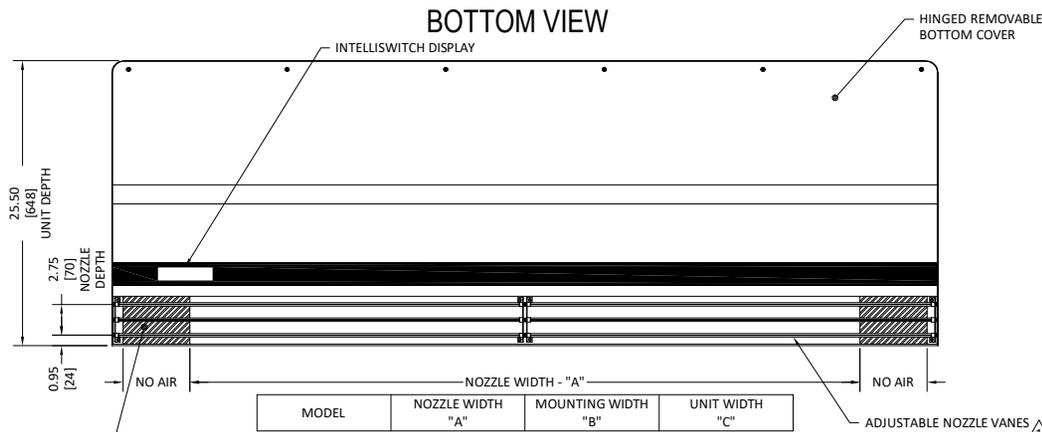
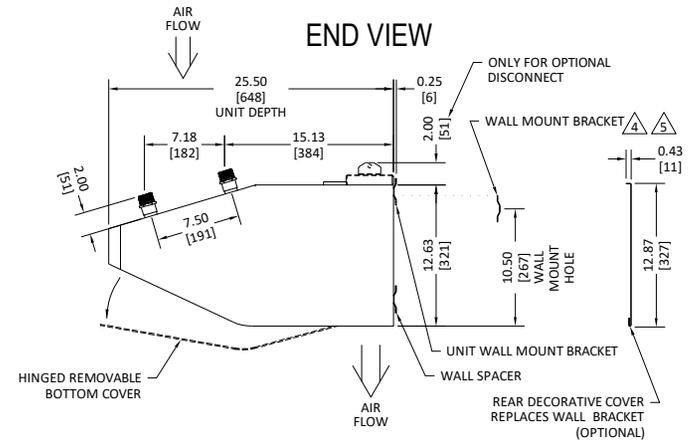
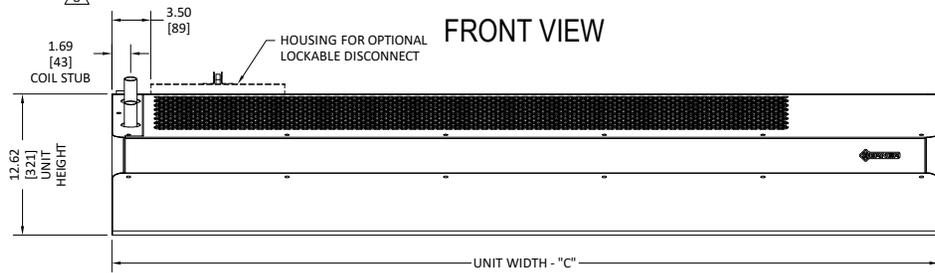
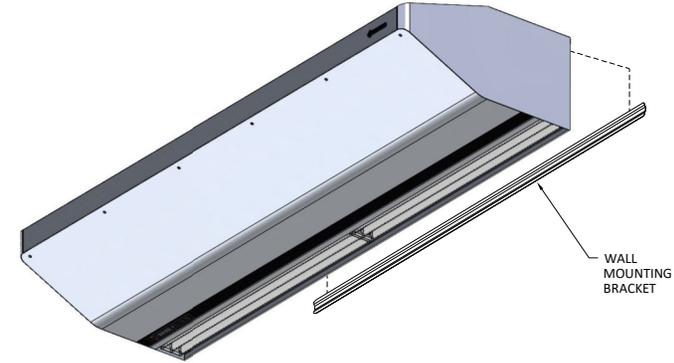
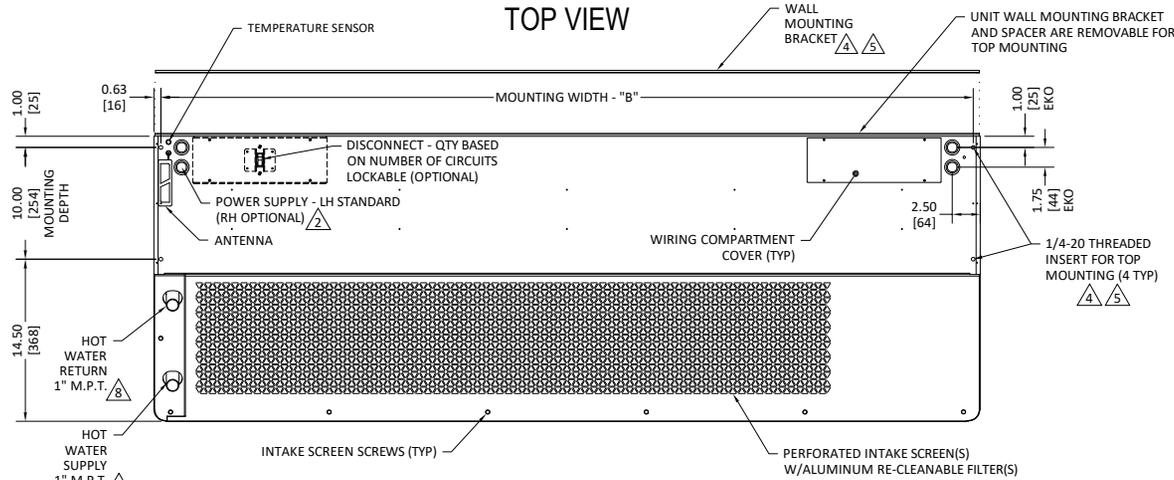
NOTES:

- 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 THE LAST CHARACTER IN THE MODEL NUMBER - "W" DESIGNATES WATER HEATED UNIT.
- 7 DIMENSIONS IN INCHES [MILLIMETERS].
- 8 COIL CONNECTIONS LH STANDARD (AS SHOWN), OPTIONAL RH.

SHEET 1 OF 1

PROJECT		REV	0
LOCATION			
ARCHITECT			
ENGINEER			
DWG. NO.	AC10-F-WTR-120	TITLE:	BERNER
DATE	22JAN2025	MODEL AC10-F AIR CURTAIN 120 - 277V & 380V WATER HEATED SYSTEM	
BY	S. Beil		
REPLACES	28FEB2023		
BY	D. Johnson	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.	

AC10-E WATER HEATED SYSTEM: 600V



MODEL	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	UNIT WIDTH "C"
AC10-F-1036W	36.00 [914]	48.75 [1238]	50.00 [1270]
AC10-F-1042W	42.00 [1067]	48.75 [1238]	50.00 [1270]
AC10-F-1048W	48.00 [1219]	59.75 [1518]	61.00 [1549]
AC10-F-1060W	59.00 [1499]	72.75 [1848]	74.00 [1880]
AC10-F-2072W	72.00 [1829]	84.75 [2153]	86.00 [2184]
AC10-F-2078W	78.00 [1981]	84.75 [2153]	86.00 [2184]
AC10-F-2084W	84.00 [2134]	96.75 [2458]	98.00 [2489]
AC10-F-2096W	96.00 [2438]	108.75 [2762]	110.00 [2794]
AC10-F-2108W	108.00 [2743]	118.75 [3016]	120.00 [3048]
AC10-F-2120W	118.00 [2997]	132.75 [3372]	134.00 [3404]
AC10-F-3132W	132.00 [3353]	144.75 [3677]	146.00 [3708]
AC10-F-3144W	144.00 [3658]	156.75 [3982]	158.00 [4013]

INACTIVE NOZZLE AREA FOR TRANSFORMER ENCLOSURE CENTER ACTIVE NOZZLE WIDTH DIMENSION "A" OVER THE OPENING

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 THE LAST CHARACTER IN THE MODEL NUMBER - "W" DESIGNATES WATER HEATED UNIT.
- 7 DIMENSIONS IN INCHES [CENTIMETERS].
- 8 COIL CONNECTIONS LH STANDARD (AS SHOWN), OPTIONAL RH.
- 9 NO AIR FLOW, AREA HOUSES TRANSFORMER. CENTER ACTIVE NOZZLE WIDTH DIMENSION "A" OVER THE OPENING.

SHEET 1 OF 1

PROJECT		REV	0
LOCATION			
ARCHITECT			
ENGINEER			
DWG. NO.	AC10-F-WTR-600	TITLE:	BERNER MODEL AC10-F AIR CURTAIN 600V WATER HEATED SYSTEM
DATE	22JAN2025		
BY	S. Bell		
REPLACES	28FEB2023		
BY	D. Johnson	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.	