ARCHITECTURAL ICON 10
Steam Heated Air Curtain
Data Sheet

Recommended for Mounting Heights to 10' (environmental separation) and 8' (insect control)

Vestibule Exception for the ASHRAE 90.1-2019, IECC 2018, and ASHRAE 189.1 Energy Codes, require a velocity projection tested in accordance with AMCA 220 of not less than 6.6 feet per second (400 fpm or 2.0 m/s) at 6.0 in (15 cm) above the floor.

VELOCITY PROJECTION: Model AI10-F-1036S				
Distance from Nozzle (in)	40	80	120	160
Core Velocity (fpm)	1259	876	856	742
Uniformity (%)	83%	88%	92%	96%

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.

2 Year Limited Warranty

Made in USA

indoor use

FDA RECOMMENDED

USDA COMPLIANCE

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)
AI10-F-1036S	36.00	3,522	1,916	1,317	80%	0.49	1 @ ½	58.6	5	60.4	41°	110
AI10-F-1042S	42.00	3,429	1,709	1,371	82%	0.50	1 @ ½	65.1	5	67.1	44°	122
AI10-F-1048S	48.00	4,040	1,833	1,680	90%	0.63	1 @ ½	77.8	5	80.1	43°	141
AI10-F-1060S	59.00	4,146	1,541	1,736	85%	0.63	1 @ ½	88.7	5	91.4	47°	156
AI10-F-2072S	72.00	3,522	1,916	2,634	80%	0.98	2 @ ½	121.6	5	125.3	43°	216
AI10-F-2078S	78.00	3,522	1,805	2,688	80%	0.99	2 @ ½	127.9	5	131.9	44°	219
AI10-F-2084S	84.00	3,429	1,709	2,742	82%	1.00	2 @ ½	134.1	5	138.2	45°	240
AI10-F-2096S	96.00	4,040	1,833	3,360	90%	1.26	2 @ ½	159.7	5	164.6	44°	278
AI10-F-2108S	108.00	4,146	1,656	3,416	85%	1.26	2 @ ½	170.6	5	175.8	46°	293
AI10-F-2120S	118.00	4,146	1,541	3,472	85%	1.26	2 @ ½	178.7	5	184.2	48°	307
AI10-F-3132S	132.00	4,040	1,855	4,677	80%	1.75	3 @ ½	222.6	5	229.4	44°	384
AI10-F-3144S	144.00	4,040	1,833	5,040	90%	1.89	3 @ ½	241.6	5	249.0	44°	415

See sheets EP-294E-AC & EP-294E-EC for amp draws/total load requirements.
600/3/60 power supply includes extended cabinet, See drawing AI10-F-STM-600

NOTES:
1. Standard connection same end supply/return.
2. 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.
3. Coil performance based on 65°F entering air temperature.
4. Maximum leaving air temperature shall not exceed 120F.
5. Consult factory for alternate steam pressures.
6. Operation of standard motor (AC) at 50Hz will generate a 17% reduction in performance; no reduction for optional EC motors.

MODEL NUMBER CONFIGURATION

AI10-F-1 036 S 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
AI10	F	1, 2, 3	036" - 144"	S=Steam 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

for Standard offering, leave options (Opt.) blank

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

STANDARD CONSTRUCTION
- 12 ¾" high x 22" 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)

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.

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

DS-294E
July, 2025

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ARCHITECTURAL ICON 10 - 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
AI10-F-1036S AI10-F-1042S AI10-F-1048S AI10-F-1060S	1	8.5 / 15	1	4.3 / 15	1	4.3 / 15
AI10-F-2072S AI10-F-2078S AI10-F-2084S AI10-F-2096S AI10-F-2108S AI10-F-2120S	1	17.0 / 25	1	8.6 / 15	1	8.6 / 15
AI10-F-3132S AI10-F-3144S	1	25.5 / 35	1	12.9 / 20	1	12.9 / 20

MODEL	277/1/60 (voltage code W) AC MOTOR AMP DRAW = 2.6 each		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	
	# CKTS	AMPS PER CIRCUIT / BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT / BREAKER RATING PER CIRCUIT
AI10-F-1036S AI10-F-1042S AI10-F-1048S AI10-F-1060S	1	2.6 / 15	1	1.7 / 15
AI10-F-2072S AI10-F-2078S AI10-F-2084S AI10-F-2096S AI10-F-2108S AI10-F-2120S	1	5.2 / 15	1	3.3 / 15
AI10-F-3132S AI10-F-3144S	1	7.8 / 15	1	5.0 / 15

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ARCHITECTURAL ICON 10 - EC MOTORS

Steam Heated Air Curtain
Electrical Performance Sheet

MODEL	120/1/60 (voltage code A) EC MOTOR AMP DRAW = 6.6 each		208/1/60 (voltage code B) EC MOTOR AMP DRAW = 4.1 each		240/1/60 (voltage code J) or 230/1/50 (voltage code V) EC MOTOR AMP DRAW = 4.1 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
AI10-F-1036S AI10-F-1042S AI10-F-1048S AI10-F-1060S	1	6.6 / 15	1	4.1 / 15	1	4.1 / 15
AI10-F-2072S AI10-F-2078S AI10-F-2084S AI10-F-2096S AI10-F-2108S AI10-F-2120S	1	13.2 / 20	1	8.2 / 15	1	8.2 / 15
AI10-F-3132S AI10-F-3144S	1	19.8 / 25	1	12.3 / 20	1	12.3 / 20

MODEL	277/1/60 (voltage code W) EC MOTOR AMP DRAW = 3.6 each		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	
	# CKTS	AMPS PER CIRCUIT / BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT / BREAKER RATING PER CIRCUIT
AI10-F-1036S AI10-F-1042S AI10-F-1048S AI10-F-1060S	1	3.6 / 15	1	1.7 / 15
AI10-F-2072S AI10-F-2078S AI10-F-2084S AI10-F-2096S AI10-F-2108S AI10-F-2120S	1	7.2 / 15	1	3.3 / 15
AI10-F-3132S AI10-F-3144S	1	10.8 / 15	1	5.0 / 15

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EP-294E-EC
July, 2025

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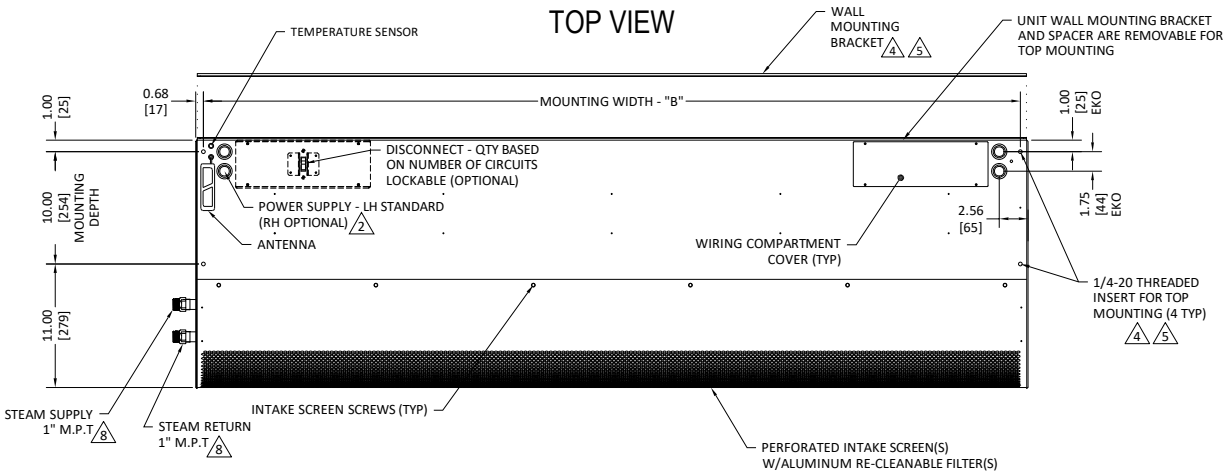
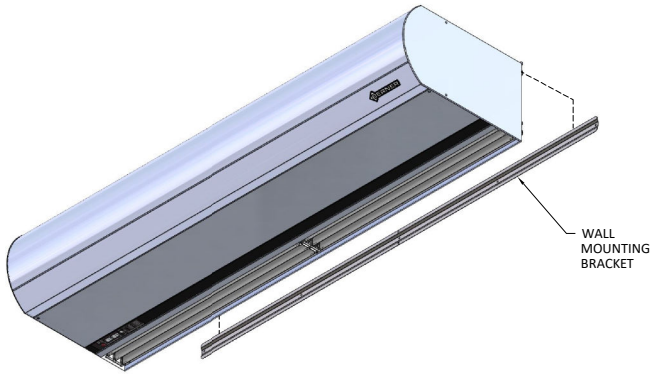
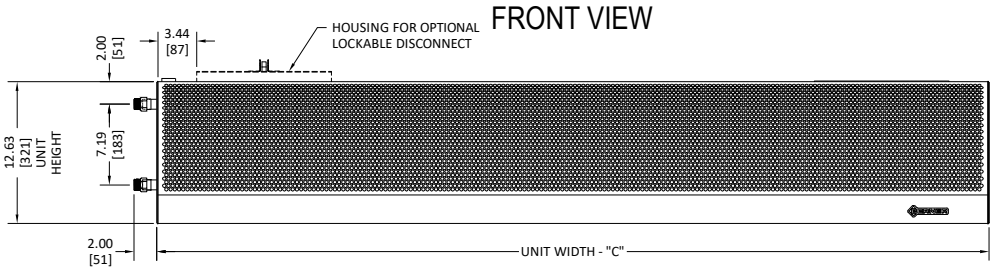
AI10-F STEAM HEATED SYSTEM: 120 - 277V

TOP VIEW





FRONT VIEW



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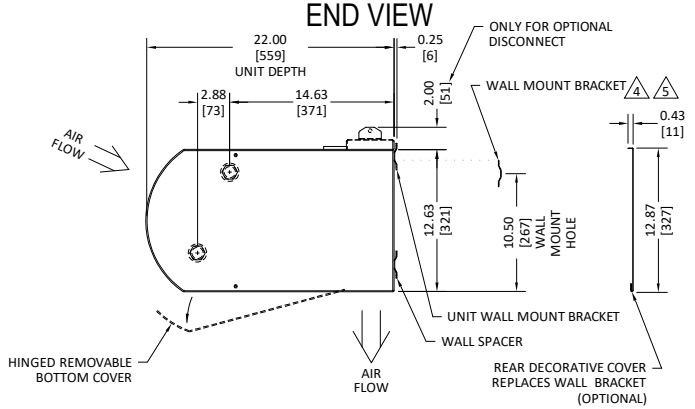
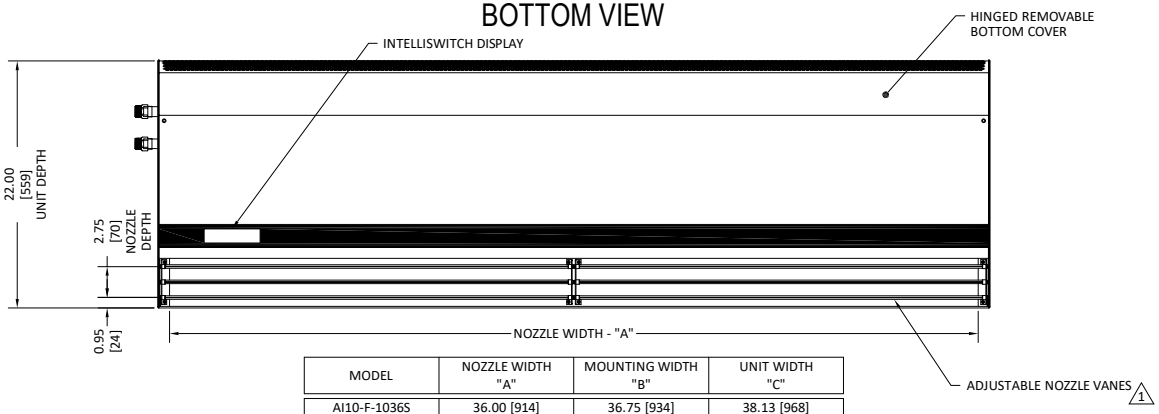


BOTTOM VIEW



MODEL	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	UNIT WIDTH "C"
AI10-F-1036S	36.00 [914]	36.75 [934]	38.13 [968]
AI10-F-1042S	42.00 [1067]	42.75 [1086]	44.13 [1121]
AI10-F-1048S	48.00 [1219]	48.75 [1238]	50.13 [1273]
AI10-F-1060S	59.00 [1499]	59.75 [1518]	61.13 [1553]
AI10-F-2072S	72.00 [1829]	72.75 [1848]	74.13 [1883]
AI10-F-2078S	78.00 [1981]	78.75 [2000]	80.13 [2035]
AI10-F-2084S	84.00 [2134]	84.75 [2153]	86.13 [2188]
AI10-F-2096S	96.00 [2438]	96.75 [2458]	98.13 [2492]
AI10-F-2108S	108.00 [2743]	108.75 [2762]	110.13 [2797]
AI10-F-2120S	118.00 [2997]	118.75 [3016]	120.13 [3051]
AI10-F-3132S	132.00 [3353]	132.75 [3372]	134.13 [3407]
AI10-F-3144S	144.00 [3658]	144.75 [3677]	146.13 [3712]

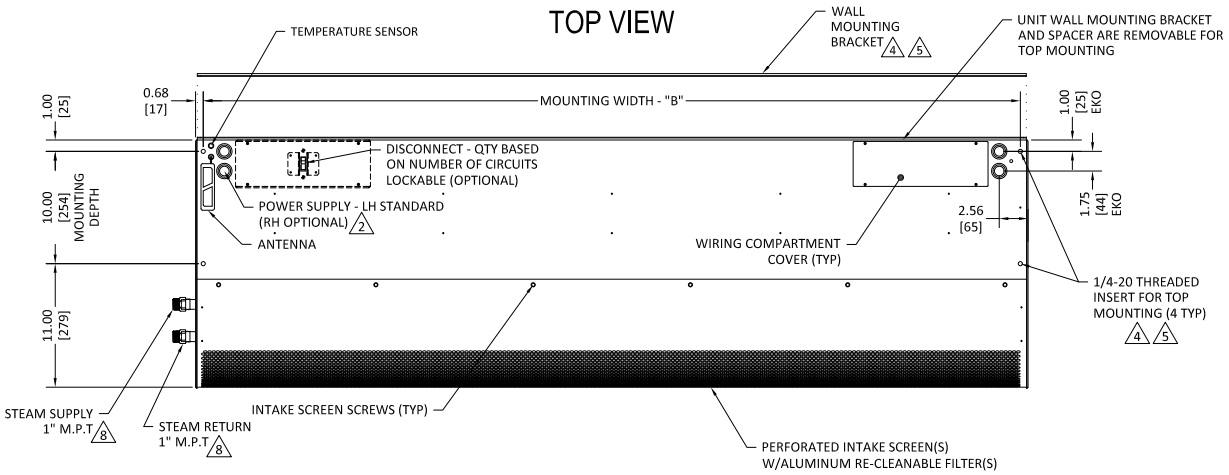
NOTES:

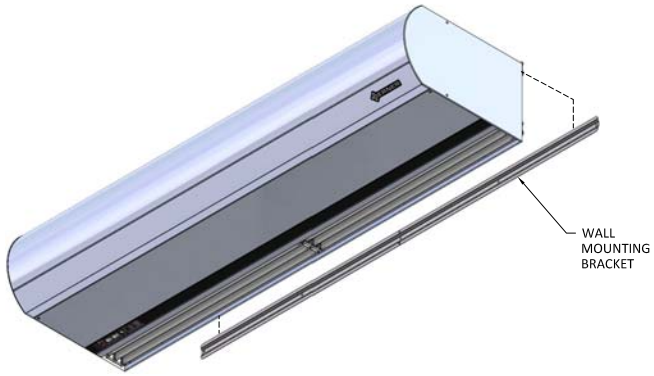
1. AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT OBSTRUCTED WHEN DEFLECTED 20° TO EITHER SIDE OF ℄.
2. ELECTRICAL CONNECTIONS TO BE FLEXIBLE.
3. FIELD VERIFY DIMENSIONS.
4. ANCHORS TO SUPPORTING STRUCTURE BY OTHERS.
5. ADEQUACY OF SUPPORTING STRUCTURE IS TO BE VERIFIED BY A PROFESSIONAL STRUCTURAL ENGINEER.
6. THE LAST CHARACTER IN THE MODEL NUMBER – "S" DESIGNATES STEAM HEATED UNIT.
7. DIMENSIONS IN INCHES [MILLIMETERS].
8. COIL CONNECTIONS LH STANDARD (AS SHOWN), OPTIONAL RH.

PROJECT		REV	0
LOCATION			
ARCHITECT			
ENGINEER			
DWG. NO.	AI10-F-STM-120	TITLE:	BERNER
DATE	24JAN2025		MODEL AI10-F AIR CURTAIN 120 - 277V STEAM HEATED SYSTEM
BY	S. Beil		
REPLACES	-		BERNER INTERNATIONAL CORP. NEW CASTLE,PA.
BY	-		

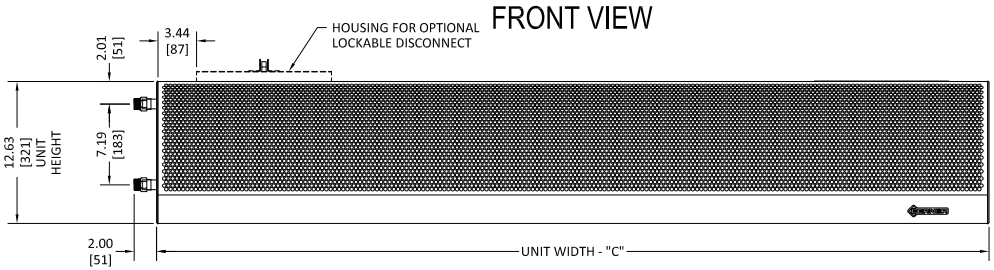
AI10-F STEAM HEATED SYSTEM: 600V

TOP VIEW





FRONT VIEW



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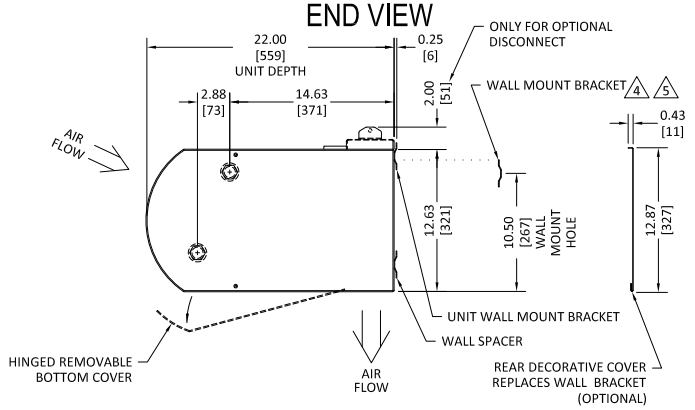
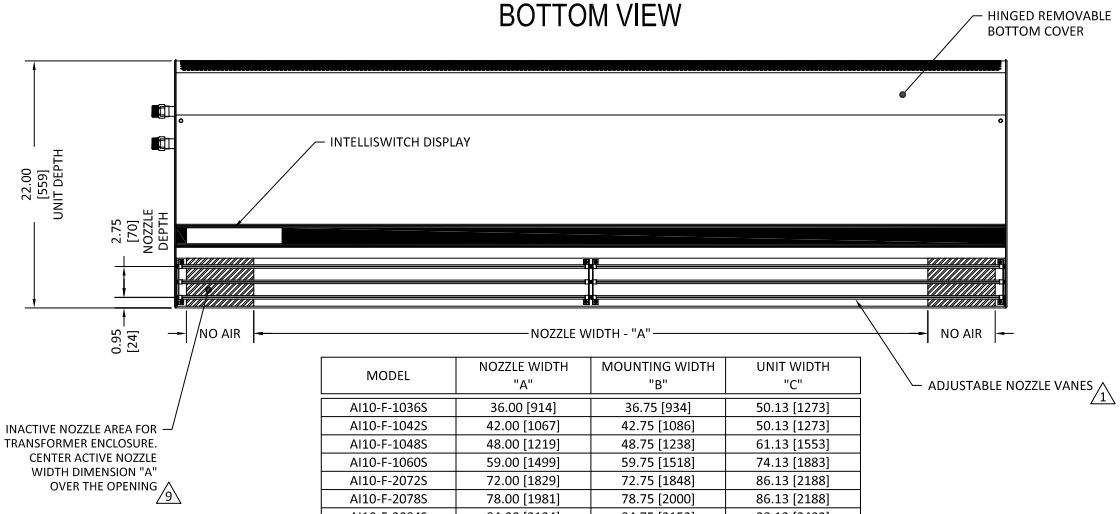


BOTTOM VIEW



MODEL	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	UNIT WIDTH "C"
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AI10-F-1042S	42.00 [1067]	42.75 [1086]	50.13 [1273]
AI10-F-1048S	48.00 [1219]	48.75 [1238]	61.13 [1553]
AI10-F-1060S	59.00 [1499]	59.75 [1518]	74.13 [1883]
AI10-F-2072S	72.00 [1829]	72.75 [1848]	86.13 [2188]
AI10-F-2078S	78.00 [1981]	78.75 [2000]	86.13 [2188]
AI10-F-2084S	84.00 [2134]	84.75 [2153]	98.13 [2492]
AI10-F-2096S	96.00 [2438]	96.75 [2458]	110.13 [2797]
AI10-F-2108S	108.00 [2743]	108.75 [2762]	120.13 [3051]
AI10-F-2120S	118.00 [2997]	118.75 [3016]	134.13 [3407]
AI10-F-3132S	132.00 [3353]	132.75 [3372]	146.13 [3712]
AI10-F-3144S	144.00 [3658]	144.75 [3677]	158.13 [4016]

NOTES:

1. AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT OBSTRUCTED WHEN DEFLECTED 20° TO EITHER SIDE OF ℄.
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 – "S" DESIGNATES STEAM 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	1
LOCATION			
ARCHITECT			
ENGINEER			
DWG. NO.	AI10-F-STM-600	TITLE:	BERNER MODEL AI10-F AIR CURTAIN 600V STEAM HEATED SYSTEM
DATE	10JUL2025		
BY	S. Beil		
REPLACES	24JAN2025		BERNER INTERNATIONAL CORP. NEW CASTLE,PA.
BY	S. Beil		