



# INDUSTRIAL WASHDOWN DUTY 14

## Ambient (Unheated) Air Curtain

### Data Sheet

For Mounting Heights To 14' (environmental separation) and 12' (insect control)

#### STANDARD CONSTRUCTION

- 1 hp single speed washdown duty totally enclosed motor(s)
- Stainless steel cabinet with stainless steel inlet screen & access panels
- Stainless steel blower wheels & housings
- Front air intake
- High efficiency Pro-V Nozzle

5 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	Net Wt. (lbs)
WD14-C-1036A	36.00	7,567	2,738	2,396	87%	1.12	1 @ 1	103
WD14-C-1042A	42.00	7,040	2,435	2,486	81%	1.12	1 @ 1	109
WD14-C-1048A	48.00	7,175	2,173	2,535	84%	1.25	1 @ 1	114
WD14-C-1060A	66.00	6,886	1,620	2,598	80%	1.28	1 @ 1	125
WD14-C-2060A	66.00	7,520	3,136	4,574	97%	2.07	2 @ 1	175
WD14-C-2072A	72.00	7,567	2,738	4,792	87%	2.24	2 @ 1	184
WD14-C-2078A	78.00	7,040	2,575	4,882	81%	2.24	2 @ 1	190
WD14-C-2084A	84.00	7,040	2,435	4,972	81%	2.24	2 @ 1	195
WD14-C-2096A	99.00	7,175	2,173	5,070	84%	2.50	2 @ 1	205
WD14-C-3096A	99.00	7,567	2,987	6,970	87%	3.19	3 @ 1	249
WD14-C-2108A	108.00	6,886	1,956	5,133	80%	2.53	2 @ 1	248
WD14-C-3108A	108.00	7,567	2,738	7,188	87%	3.36	3 @ 1	292
WD14-C-2120A	117.00	6,886	1,827	5,197	80%	2.56	2 @ 1	255
WD14-C-3120A	117.00	7,040	2,526	7,368	81%	3.36	3 @ 1	299
WD14-C-3132A	132.00	7,040	2,340	7,507	81%	3.49	3 @ 1	320
WD14-C-3144A	144.00	7,175	2,173	7,605	84%	3.75	3 @ 1	334
WD14-C-4144A	144.00	7,567	2,738	9,584	87%	4.48	4 @ 1	378
WD14-C-4156A	156.00	7,040	2,575	9,764	81%	4.48	4 @ 1	394
WD14-C-4168A	168.00	7,040	2,435	9,944	81%	4.48	4 @ 1	406
WD14-C-4180A	180.00	7,040	2,295	10,042	81%	4.74	4 @ 1	419
WD14-C-5180A	180.00	7,567	2,738	11,980	87%	5.60	5 @ 1	463
WD14-C-4192A	192.00	7,175	2,173	10,140	84%	5.00	4 @ 1	431
WD14-C-5192A	192.00	7,175	2,580	12,040	84%	5.69	5 @ 1	475

#### NOTES:

1. Operation at 50 Hz will generate approximately a 17% reduction in air performance.
2. Consult factory for vertically mounted units.

Berner does not recommend WD14-C-1060A, WD14-C-2108A and WD14-C-2120A, exist only as an equivalent to competitors' models. See sheet EP-410WD for amp draws/total load requirements.

### MODEL NUMBER CONFIGURATION

## WD14-C-1 036 A A-F-SS

Series	# of Motors	Opening Width	Heat	Voltage	Intake	Cabinet Finish
WD14-C	1, 2, 3, 4, 5	036" - 192"	A=Ambient	*A=120/1/60 B=208/1/60 J=240/1/60 V=220/1/50 X=208/3/60 Y=240/3/60 Z=480/3/60 Q=600/3/60 O=380/3/50	F=Front	SS=Stainless Steel

\*Suitable for 50hz

Berner reserves the right to alter specifications without prior notice.

VELOCITY PROFILE: Model WD14-C-1036A			
Distance from Nozzle (ft)	3	6.5	10
Core Velocity (fpm)	3822	2467	2133



# INDUSTRIAL WASHDOWN-DUTY 14

**Ambient (Unheated) Air Curtain**  
**Electrical Performance Sheet**

MODEL	120/1/60 (voltage code A) MOTOR AMP DRAW = 12.6 each			208/1/60 (voltage code B) MOTOR AMP DRAW = 6.5 each			240/1/60 (voltage code J) or 220/1/50 (voltage code V) MOTOR AMP DRAW = 6.5 each			208/3/60 (voltage code X) MOTOR AMP DRAW = 6.5 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	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
WD14-C-1036A WD14-C-1042A WD14-C-1048A WD14-C-1060A	1	12.6	20	1	6.5	15	1	6.5	15	1	6.5	15
WD14-C-2060A WD14-C-2072A WD14-C-2078A WD14-C-2084A WD14-C-2096A WD14-C-2108A WD14-C-2120A	1	25.2	30	1	13.0	20	1	13.0	20	1	13.0	20
WD14-C-3096A WD14-C-3108A WD14-C-3120A WD14-C-3132A WD14-C-3144A	1	37.8	45	1	19.5	30	1	19.5	30	1	19.5	30
WD14-C-4144A WD14-C-4156A WD14-C-4168A WD14-C-4180A WD14-C-4192A	1	50.4	60	1	26.0	35	1	26.0	35	1	26.0	35
WD14-C-5180A WD14-C-5192A	1	63.0	100	1	32.5	45	1	32.5	45	1	32.5	45

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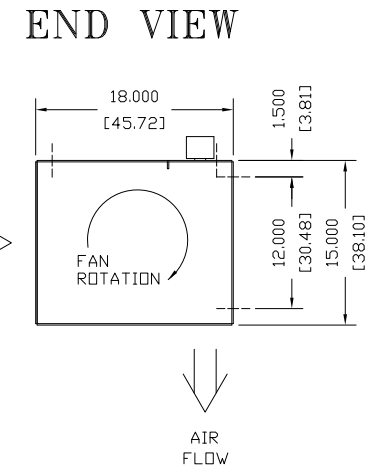
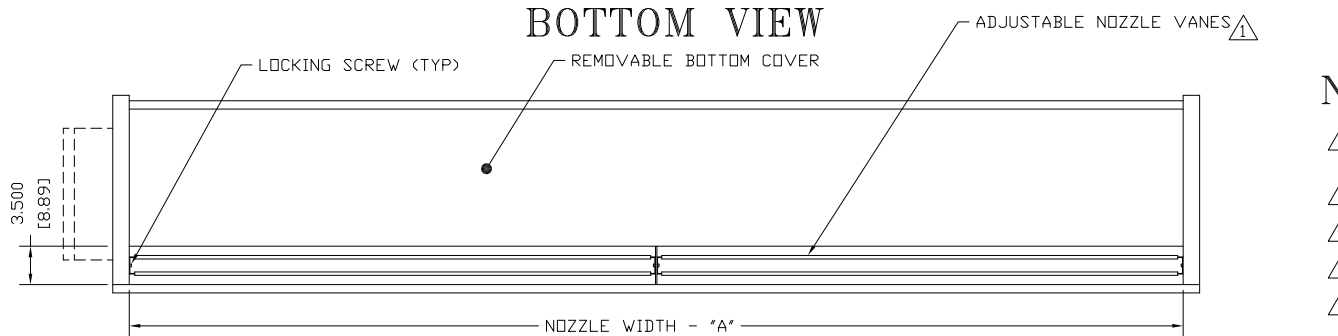
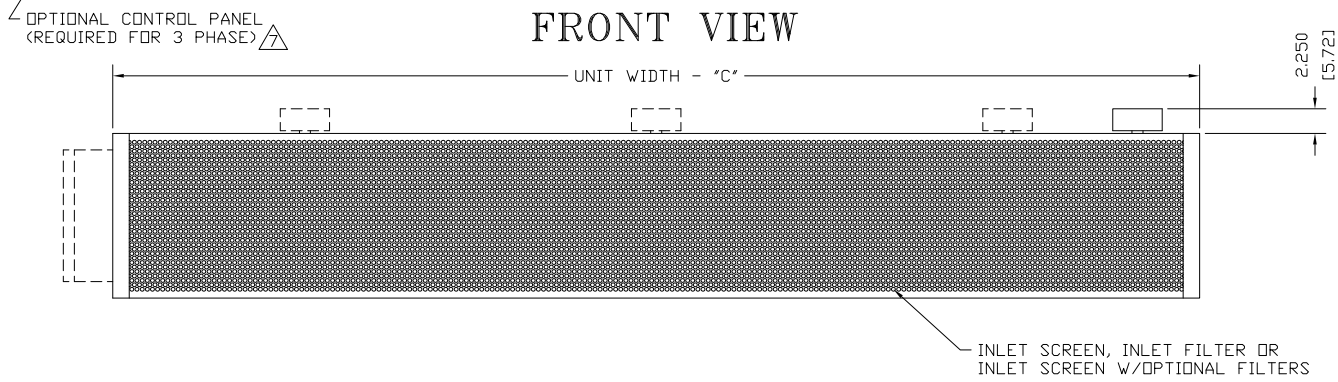
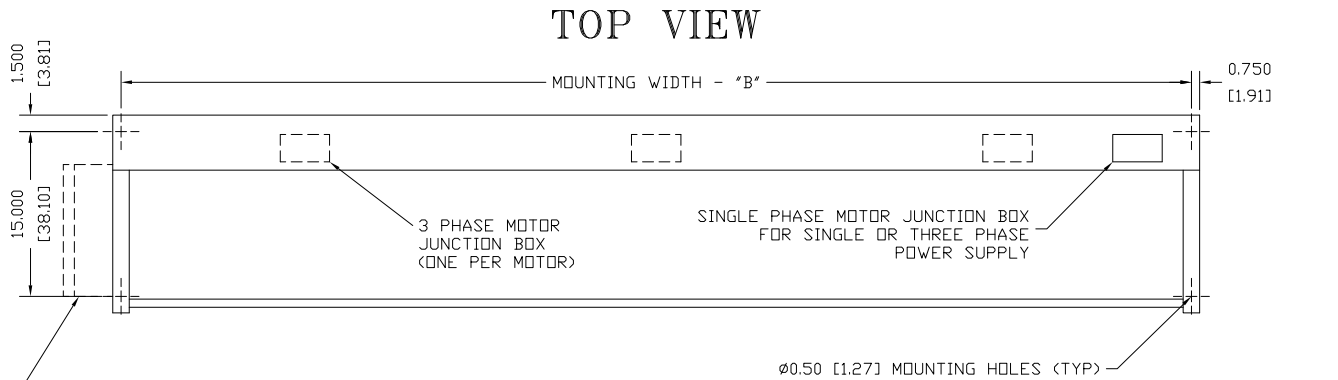


# INDUSTRIAL WASHDOWN-DUTY 14

Ambient (Unheated) Air Curtain  
Electrical Performance Sheet

MODEL	240/3/60 (voltage code Y) MOTOR AMP DRAW = 6.5 each			480/3/60 (voltage code Z) MOTOR AMP DRAW = 3.2 each			600/3/60 (voltage code Q) MOTOR AMP DRAW = 2.0 each			380/3/50 (voltage code O) MOTOR AMP DRAW = 6.5 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	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
WD14-C-1036A WD14-C-1042A WD14-C-1048A WD14-C-1060A	1	6.5	15	1	3.2	15	1	2.0	15	1	6.5	15
WD14-C-2060A WD14-C-2072A WD14-C-2078A WD14-C-2084A WD14-C-2096A WD14-C-2108A WD14-C-2120A	1	13.0	20	1	6.4	15	1	4.0	15	1	13.0	20
WD14-C-3096A WD14-C-3108A WD14-C-3120A WD14-C-3132A WD14-C-3144A	1	19.5	30	1	9.6	15	1	6.0	15	1	19.5	30
WD14-C-4144A WD14-C-4156A WD14-C-4168A WD14-C-4180A WD14-C-4192A	1	26.0	35	1	12.8	20	1	8.0	15	1	26.0	35
WD14-C-5180A WD14-C-5192A	1	32.5	45	1	16.0	20	1	10.0	15	1	32.5	45

# WD14-C AMBIENT SYSTEM



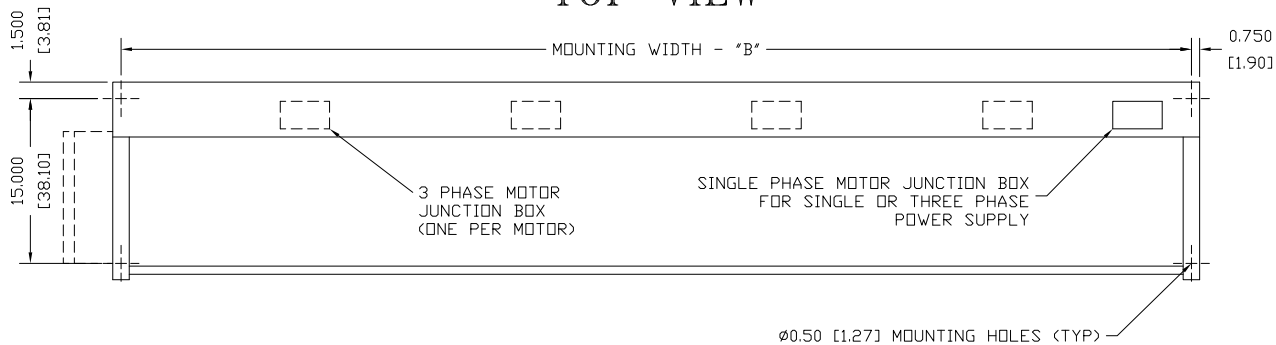
## NOTES:

- 1 AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT OBSTRUCTED WHEN DEFLECTED 20° TO EITHER SIDE OF  $\phi$ .
- 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 "A" IN MODEL NUMBER DESIGNATES, AMBIENT UNIT.
- 7 STANDARD CONTROL PANEL LEFT HAND MOUNT, OPTIONAL RIGHT HAND MOUNT, OR REMOTE. PLEASE SPECIFY.
- 8 DIMENSIONS IN INCHES [CENTIMETERS].

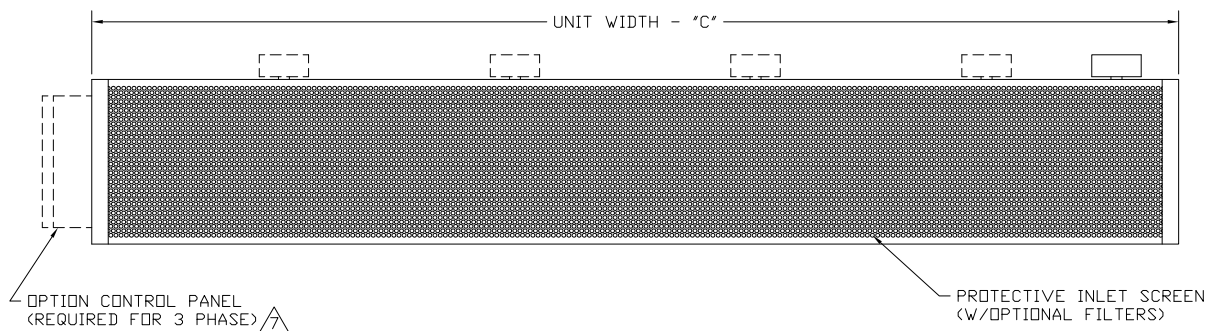
MODEL <sup>△</sup>	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	UNIT WIDTH "C"
WD14-C-1036A	36.00 [91.44]	37.50 [95.25]	39.00 [99.06]
WD14-C-1042A	42.00 [106.68]	43.50 [110.49]	45.00 [114.30]
WD14-C-1048A	48.00 [121.92]	49.50 [125.73]	51.00 [129.54]
WD14-C-1060A/2060A	66.00 [167.64]	67.50 [171.45]	69.00 [175.26]
WD14-C-2072A	72.00 [182.88]	73.50 [186.69]	75.00 [190.50]
WD14-C-2078A	78.00 [192.12]	79.50 [201.93]	81.00 [205.74]
WD14-C-2084A	84.00 [213.36]	85.50 [217.17]	87.00 [220.98]
WD14-C-2096A/3096A	99.00 [251.46]	100.50 [255.27]	102.00 [259.08]
WD14-C-2108A/3108A	108.00 [274.32]	109.50 [278.13]	111.00 [281.94]
WD14-C-2120A/3120A	117.00 [297.18]	118.50 [300.99]	120.00 [304.80]
WD14-C-3132A	132.00 [335.28]	133.50 [339.09]	135.00 [342.90]
WD14-C-3144A/4144A	144.00 [365.76]	145.50 [369.57]	147.00 [373.38]

PROJECT		TITLE:	<b>BERNER</b>
LOCATION		DATE	21JAN2021
ARCHITECT		BY	S. Beil
ENGINEER		REPLACES	-
		BY	-
		MODEL WD14-C AIR CURTAIN WASHDOWN DUTY AMBIENT SYSTEM	
		BERNER INTERNATIONAL CORP. NEW CASTLE, PA.	

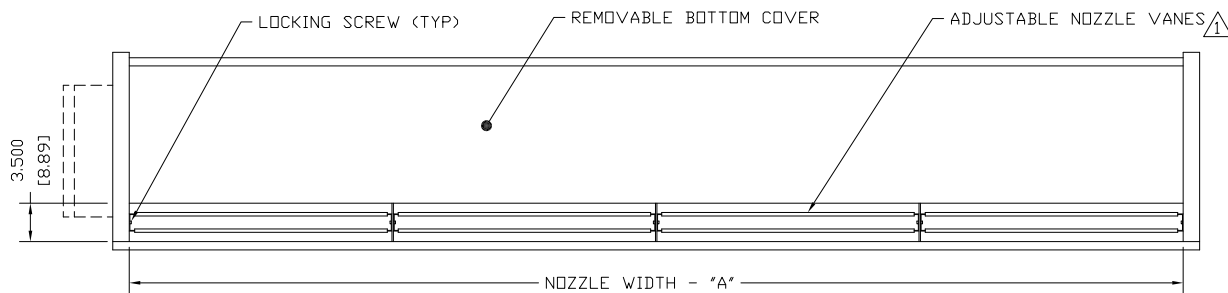
### TOP VIEW



### FRONT VIEW



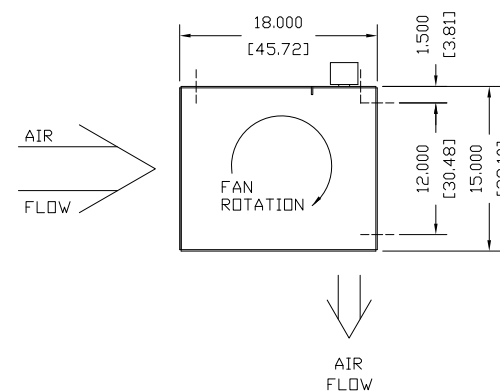
### BOTTOM VIEW



MODEL ⚠	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	UNIT WIDTH "C"
WD14-C-4156A	156.00 [396.24]	157.50 [400.05]	159.00 [403.86]
WD14-C-4168A	168.00 [426.72]	169.50 [430.53]	171.00 [434.34]
WD14-C-4180A/5180A	180.00 [457.20]	181.50 [461.01]	183.00 [464.82]
WD14-C-4192A/5192A	192.00 [487.68]	193.50 [491.49]	195.00 [495.30]

# WD14-C AMBIENT SYSTEM

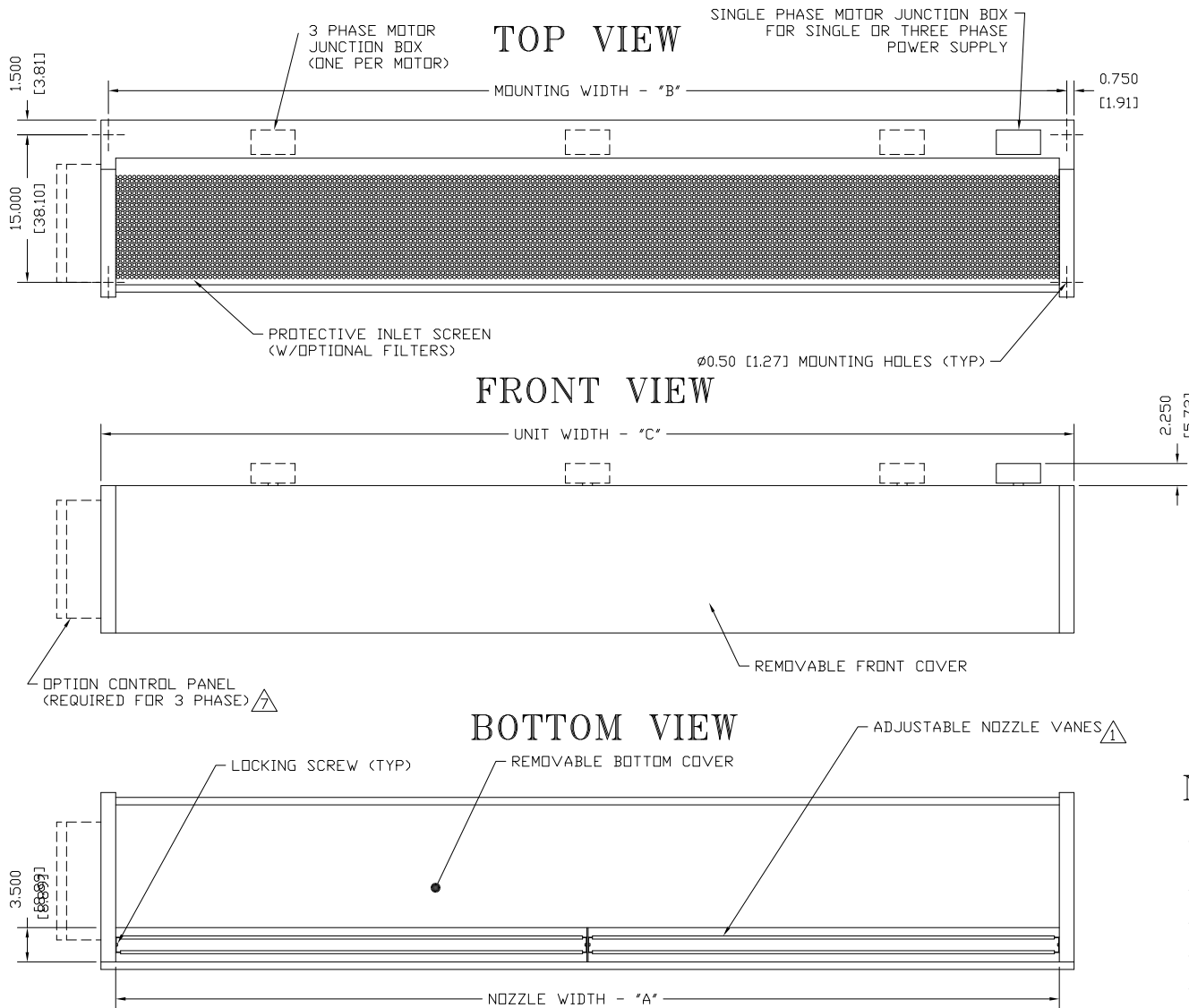
### END VIEW



### NOTES:

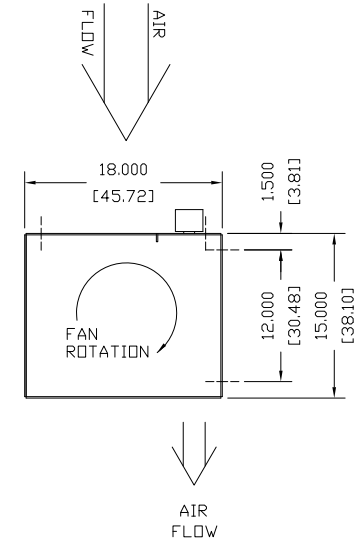
- ⚠ AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT OBSTRUCTED WHEN DEFLECTED 20° TO EITHER SIDE OF C.
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PROJECT		
LOCATION		
ARCHITECT		
ENGINEER		
DWG. NO.	WD14-C-AMB2	TITLE: <b>BERNER</b>
DATE	21JAN2021	MODEL WD14-C AIR CURTAIN
BY	S. Beil	WASHDOWN DUTY AMBIENT SYSTEM
REPLACES	-	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.
BY	-	



# WD14-C AMBIENT SYSTEM TOP INTAKE

## END VIEW



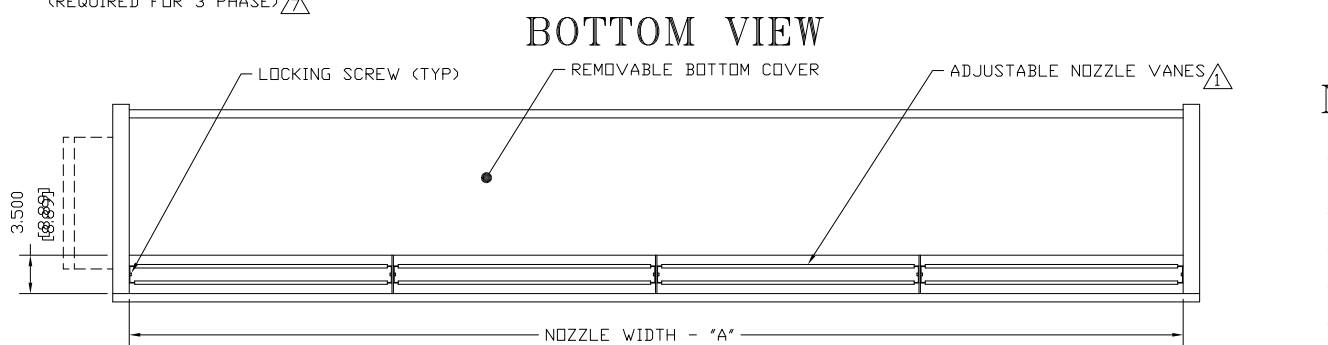
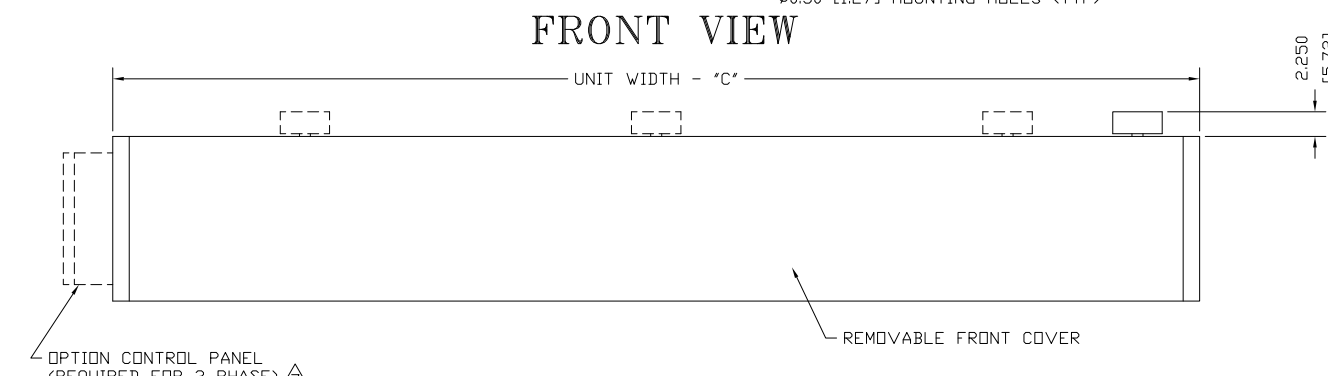
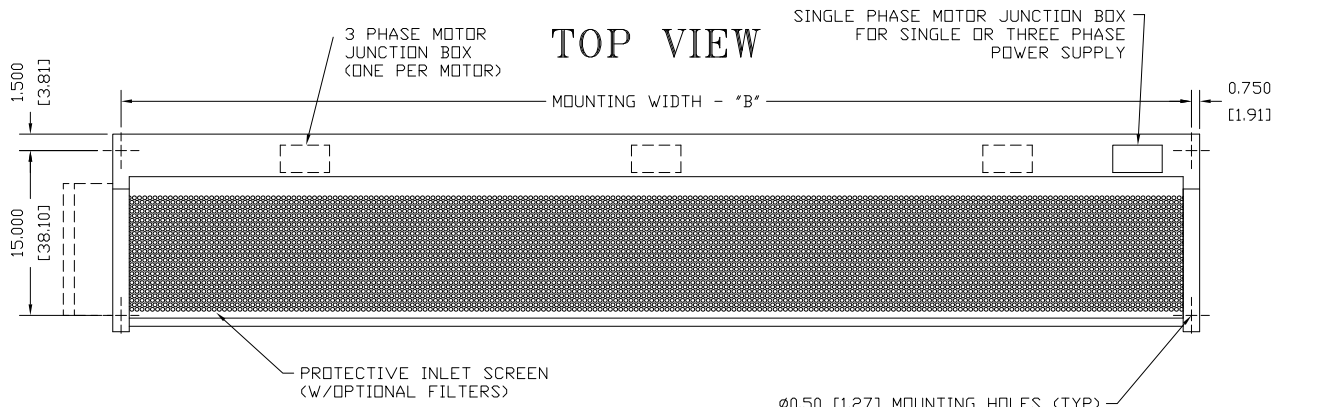
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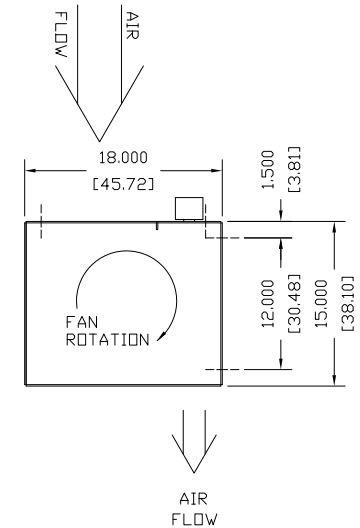
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WD14-C-3144A/4144A	144.00 [365.76]	145.50 [369.57]	147.00 [373.38]

PROJECT		
LOCATION		
ARCHITECT		
ENGINEER		
DWG. NO.	WD14-C-AMB3	TITLE: <b>BERNER</b>
DATE	21JAN2021	MODEL WD14-C AIR CURTAIN
BY	S. Beil	WASHDOWN DUTY AMBIENT SYSTEM TOP INTAKE
REPLACES	-	
BY	-	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.

# WD14-C AMBIENT SYSTEM TOP INTAKE



## END VIEW



MODEL <sup>△</sup>	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	UNIT WIDTH "C"
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PROJECT		
LOCATION		
ARCHITECT		
ENGINEER		
DWG. NO.	WD14-C-AMB4	TITLE: <b>BERNER</b>
DATE	21JAN2021	MODEL WD14-C AIR CURTAIN
BY	S. Beil	WASHDOWN DUTY AMBIENT SYSTEM TOP INTAKE
REPLACES	-	
BY	-	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.