



INDUSTRIAL DIRECT DRIVE 14

Steam Heated Air Curtain

Data Sheet

For Mounting Heights To 14' (environmental separation)

STANDARD CONSTRUCTION

- 1 hp single speed motor(s) - direct drive (Optional: two-speed)
- Gray powder coated exterior with mill aluminum screen and access panels (Optional: Custom Color or Stainless)
- Wall & Top Mounting
- Front air intake (Optional: top)
- High efficiency Pro-V Nozzle

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)	Inlet Pressure (PSIG)	Condensate (lbs/hr)	Air Temp. Rise (°F)	Net Wt. (lbs)
IDC14-1036S	36.00	7,567	2,738	2,396	87%	1.12	1 @ 1	78.9	5	81.4	30°	143
IDC14-1042S	42.00	7,040	2,435	2,486	81%	1.12	1 @ 1	86.6	5	89.2	32°	153
IDC14-1048S	48.00	7,175	2,173	2,535	84%	1.25	1 @ 1	93.0	5	95.9	34°	163
IDC14-2060S	66.00	7,520	3,136	4,574	97%	2.07	2 @ 1	147.8	5	152.3	30°	234
IDC14-2072S	72.00	7,567	2,738	4,792	87%	2.24	2 @ 1	157.9	5	162.7	30°	246
IDC14-2078S	78.00	7,040	2,575	4,882	81%	2.24	2 @ 1	165.6	5	170.7	31°	256
IDC14-2084S	84.00	7,040	2,435	4,972	81%	2.24	2 @ 1	173.1	5	178.4	32°	265
IDC14-2096S	99.00	7,175	2,173	5,070	84%	2.50	2 @ 1	188.6	5	194.4	34°	284
IDC14-3096S	99.00	7,567	2,987	6,970	87%	3.19	3 @ 1	223.5	5	230.4	30°	328
IDC14-3108S	108.00	7,567	2,738	7,188	87%	3.36	3 @ 1	236.8	5	244.1	30°	376
IDC14-3120S	117.00	7,040	2,526	7,368	81%	3.36	3 @ 1	249.2	5	256.8	31°	389
IDC14-3132S	132.00	7,040	2,340	7,507	81%	3.49	3 @ 1	266.3	5	274.4	33°	421
IDC14-3144S	144.00	7,175	2,173	7,605	84%	3.75	3 @ 1	279.0	5	287.6	34°	442
IDC14-4144S	144.00	7,567	2,738	9,584	87%	4.48	4 @ 1	315.7	5	325.4	30°	486
IDC14-4156S	156.00	7,040	2,575	9,764	81%	4.48	4 @ 1	331.2	5	341.3	31°	540
IDC14-4168S	168.00	7,040	2,435	9,944	81%	4.48	4 @ 1	346.2	5	356.8	32°	561
IDC14-4180S	180.00	7,040	2,295	10,042	81%	4.74	4 @ 1	359.3	5	370.4	33°	586
IDC14-5180S	180.00	7,567	2,738	11,980	87%	5.60	5 @ 1	394.7	5	406.8	30°	630
IDC14-4192S	192.00	7,175	2,173	10,140	84%	5.00	4 @ 1	372.0	5	383.4	34°	607
IDC14-5192S	192.00	7,175	2,580	12,040	84%	5.69	5 @ 1	408.0	5	420.5	31°	651

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 steam pressures, opposite end supply/return connections performance data, or vertically mounted units.

See sheet EP-414 for amp draws/total load requirements.

MODEL NUMBER CONFIGURATION

IDC14-1 036 S A-F-SS

Series	# of Motors	Opening Width	Heat	Voltage	Intake	Opt. Cabinet Finish
IDC14	1, 2, 3, 4, 5	036" - 192"	S=Steam Heated	*A=120/1/60 B=208/1/60 J=240/1/60 V=230/1/50 X=208/3/60 Y=240/3/60 Z=480/3/60 Q=600/3/60 O=380/3/50 *Suitable for 50hz	T=Top F=Front	SS=Stainless Steel CC=Custom Color

Sound level measured 10' (3m) from the unit in free field:
1, 2, 3, 4 & 5 motor(s): 66 dBA, 69 dBA, 71 dBA, 72 dBA & 73 dBA

Berner reserves the right to alter specifications without prior notice.

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DS-414
March, 2025



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Electrical Performance Sheet

MODEL	# CKTS	120/1/60 (voltage code A) MOTOR AMP DRAW = 12.6 each		# CKTS	208/1/60 (voltage code B) MOTOR AMP DRAW = 6.5 each		# CKTS	240/1/60 (voltage code J) MOTOR AMP DRAW = 6.5 each		# CKTS	208/3/60 (voltage code X) MOTOR AMP DRAW = 6.5 each	
		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
IDC14-1036S IDC14-1042S IDC14-1048S	1	12.6	20	1	6.5	15	1	6.5	15	1	6.5	15
IDC14-2060S IDC14-2072S IDC14-2078S IDC14-2084S IDC14-2096S	1	25.2	35	1	13.0	20	1	13.0	20	1	13.0	20
IDC14-3096S IDC14-3108S IDC14-3120S IDC14-3132S IDC14-3144S	1	37.8	50	1	19.5	30	1	19.5	30	1	19.5	30
IDC14-4144S IDC14-4156S IDC14-4168S IDC14-4180S IDC14-4192S	1	50.4	70	1	26.0	35	1	26.0	35	1	26.0	35
IDC14-5180S IDC14-5192S	1	63.0	100	1	32.5	45	1	32.5	45	1	32.5	45

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Electrical Performance Sheet

MODEL	# CKTS	240/3/60 (voltage code Y) MOTOR AMP DRAW = 6.5 each		# CKTS	480/3/60 (voltage code Z) MOTOR AMP DRAW = 3.2 each		# CKTS	600/3/60 (voltage code Q) MOTOR AMP DRAW = 2.0 each		# CKTS	380/3/50 (voltage code O) MOTOR AMP DRAW = 9.5 each	
		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
IDC14-1036S IDC14-1042S IDC14-1048S	1	6.5	15	1	3.2	15	1	2.0	15	1	9.5	15
IDC14-2060S IDC14-2072S IDC14-2078S IDC14-2084S IDC14-2096S	1	13.0	20	1	6.4	15	1	4.0	15	1	19.0	25
IDC14-3096S IDC14-3108S IDC14-3120S IDC14-3132S IDC14-3144S	1	19.5	30	1	9.6	15	1	6.0	15	1	28.5	40
IDC14-4144S IDC14-4156S IDC14-4168S IDC14-4180S IDC14-4192S	1	26.0	35	1	12.8	20	1	8.0	15	1	38.0	50
IDC14-5180S IDC14-5192S	1	32.5	45	1	16.0	20	1	10.0	15	1	47.5	60

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Electrical Performance Sheet

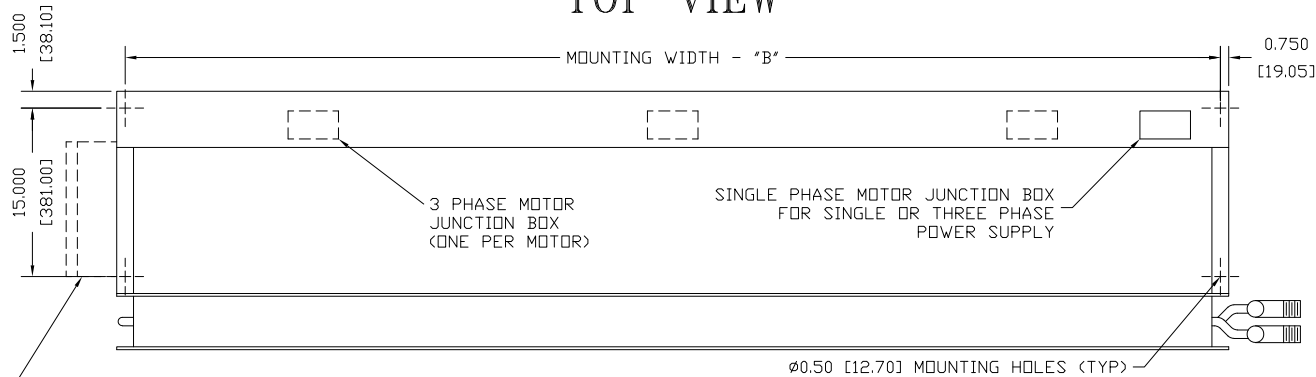
MODEL	# CKTS	230/1/50 (voltage code V) MOTOR AMP DRAW = 9.5 each		# CKTS	400/3/50 or 60 (voltage code PD or PF) MOTOR AMP DRAW = 2.3 each		# CKTS	415/3/50 or 60 (voltage code P or PB) MOTOR AMP DRAW = 2.3 each	
		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
IDC14-1036S IDC14-1042S IDC14-1048S	1	9.5	15	1	2.3	15	1	2.3	15
IDC14-2060S IDC14-2072S IDC14-2078S IDC14-2084S IDC14-2096S	1	19.0	25	1	4.6	15	1	4.6	15
IDC14-3096S IDC14-3108S IDC14-3120S IDC14-3132S IDC14-3144S	1	28.5	40	1	6.9	15	1	6.9	15
IDC14-4144S IDC14-4156S IDC14-4168S IDC14-4180S IDC14-4192S	1	38.0	50	1	9.2	15	1	9.2	15
IDC14-5180S IDC14-5192S	1	47.5	60	1	11.5	15	1	11.5	15

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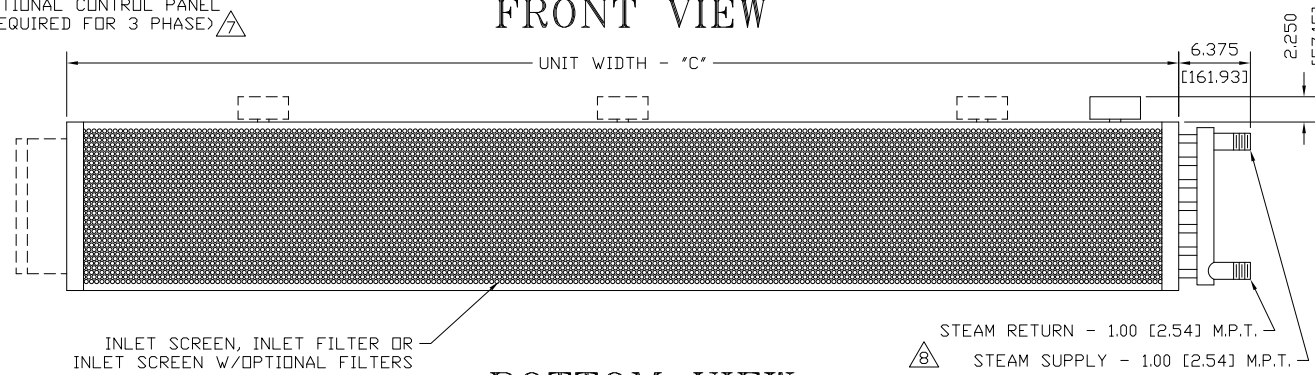
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EP-414
April, 2025

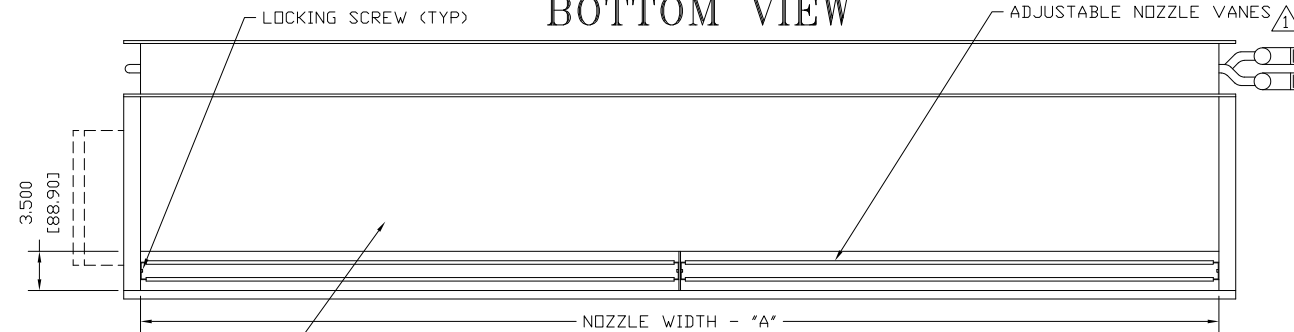
TOP VIEW



FRONT VIEW

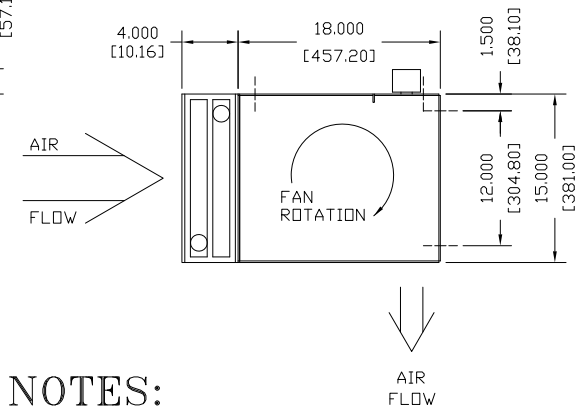


BOTTOM VIEW



IDC14 STEAM HEATED

END VIEW



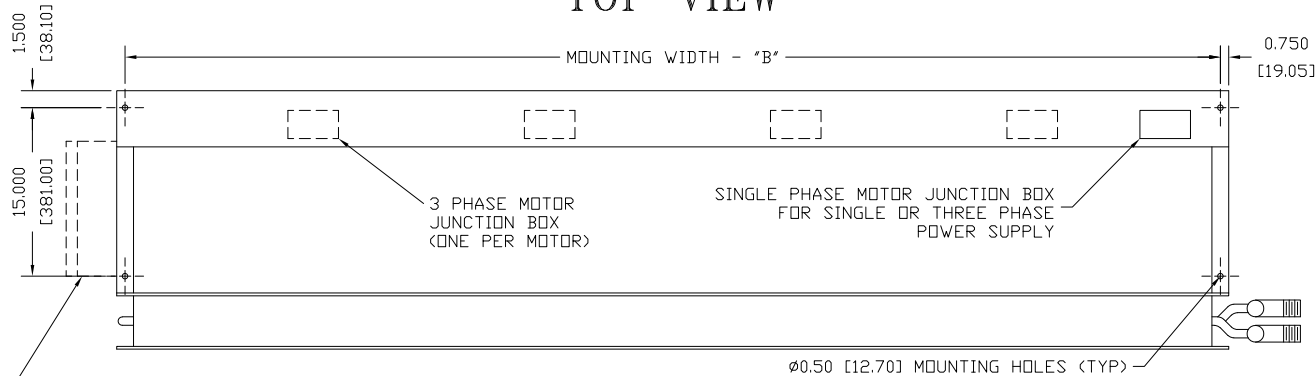
NOTES:

- 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 "S" IN MODEL NUMBER DESIGNATES, STEAM HEATED UNIT.
- 7 STANDARD CONTROL PANEL LEFT HAND MOUNT, OPTIONAL RIGHT HAND MOUNT, OR REMOTE. PLEASE SPECIFY.
- 8 COIL CONNECTIONS AS SHOWN, OPPOSITE AND SAME END CONNECTIONS AVAILABLE, PLEASE SPECIFY.
- 9 DIMENSIONS IN INCHES (MILLIMETERS).

MODEL	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	UNIT WIDTH "C"
IDC14-1036S	36.00 [914]	37.50 [953]	39.00 [991]
IDC14-1042S	42.00 [1067]	43.50 [1104]	45.00 [1143]
IDC14-1048S	48.00 [1219]	49.50 [1257]	51.00 [1295]
IDC14-2060S	66.00 [1676]	67.50 [1715]	69.00 [1753]
IDC14-2072S	72.00 [1829]	73.50 [1867]	75.00 [1905]
IDC14-2078S	78.00 [1921]	79.50 [2019]	81.00 [2057]
IDC14-2084S	84.00 [2134]	85.50 [2172]	87.00 [2210]
IDC14-2096S/3096S	99.00 [2515]	100.50 [2553]	102.00 [2591]
IDC14-3108S	108.00 [2743]	109.50 [2781]	111.00 [2819]
IDC14-3120S	117.00 [2972]	118.50 [3010]	120.00 [3048]
IDC14-3132S	132.00 [3353]	133.50 [3391]	135.00 [3429]
IDC14-3144S/4144S	144.00 [3658]	145.50 [3696]	147.00 [3734]

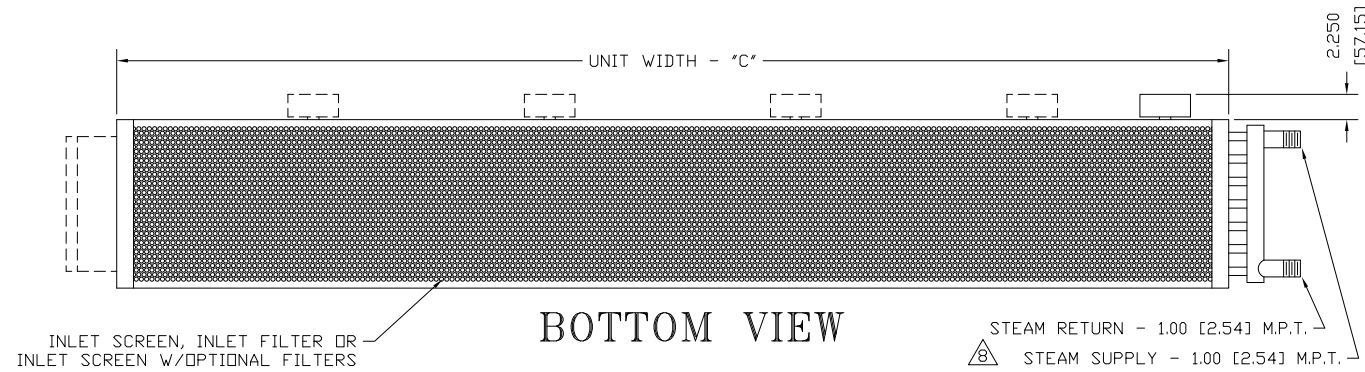
PROJECT			
LOCATION			
ARCHITECT			
ENGINEER			
DWG. NO.	IDC14-STM1	TITLE:	BERNER
DATE	23JUN2025	MODEL IDC14 AIR CURTAIN STEAM HEATED SYSTEM	
BY	S. Beil		
REPLACES	11DEC2024		
BY	S. Beil	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.	

TOP VIEW

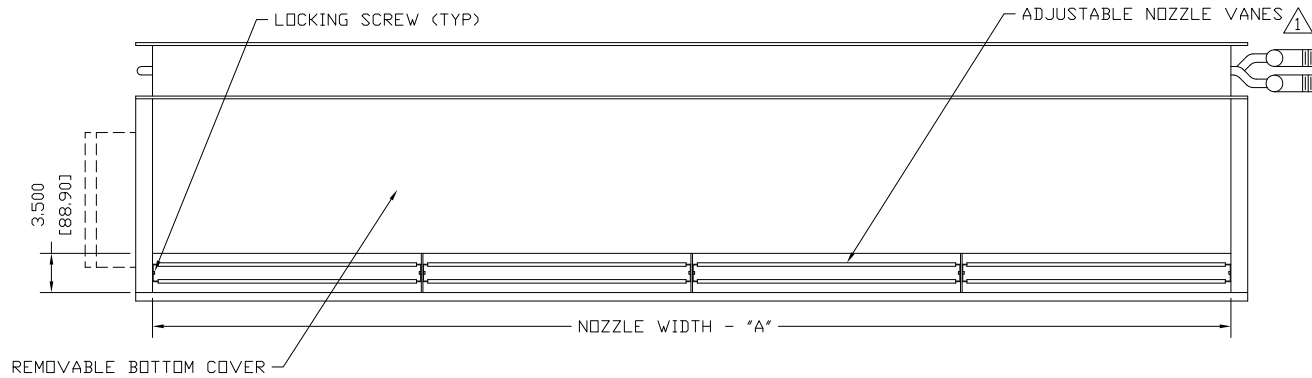


OPTIONAL CONTROL PANEL (REQUIRED FOR 3 PHASE)

FRONT VIEW



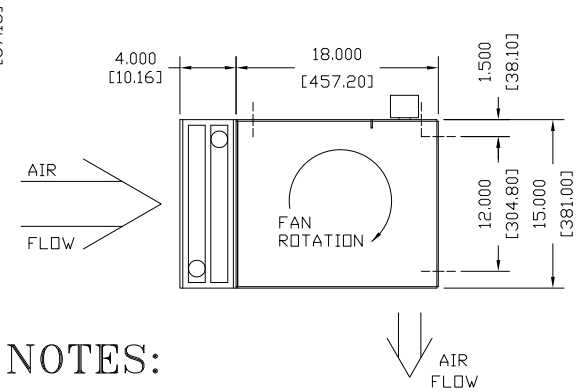
BOTTOM VIEW



STEAM RETURN - 1.00 [2.54] M.P.T.
 STEAM SUPPLY - 1.00 [2.54] M.P.T.

IDC14 STEAM HEATED

END VIEW



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 "S" IN MODEL NUMBER DESIGNATES, STEAM HEATED UNIT.
- STANDARD CONTROL PANEL LEFT HAND MOUNT, OPTIONAL RIGHT HAND MOUNT, OR REMOTE. PLEASE SPECIFY.
- COIL CONNECTIONS AS SHOWN, OPPOSITE AND SAME END CONNECTIONS AVAILABLE, PLEASE SPECIFY.
- DIMENSIONS IN INCHES (MILLIMETERS).

MODEL	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	UNIT WIDTH "C"
IDC14-4156S	156.00 [3962]	157.50 [4001]	159.00 [4039]
IDC14-4168S	168.00 [4267]	169.50 [4305]	171.00 [4343]
IDC14-4180S/5180S	180.00 [4572]	181.50 [4610]	183.00 [4648]
IDC14-4192S/5192S	192.00 [4877]	193.50 [4915]	195.00 [4953]

PROJECT			
LOCATION			
ARCHITECT			
ENGINEER			
DWG. NO.	IDC14-STM2	TITLE:	BERNER
DATE	23JUN2025	MODEL IDC14 AIR CURTAIN STEAM HEATED SYSTEM	
BY	S. Beil		
REPLACES	11DEC2024		
BY	S. Beil	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.	