



INDUSTRIAL DIRECT DRIVE 14

Hot Water 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 panel (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)	Entering / Leaving Water Temp. (°F)	Water Flow (GPM)	Fluid Pressure Drop (FT. WG.)	Air Temp. Rise (°F)	Net Wt. (lbs)
IDC14-1036W	36.00	7,567	2,738	2,396	87%	1.12	1 @ 1	72.1	180° / 164°	9.0	2.0	27°	143
IDC14-1042W	42.00	7,040	2,435	2,486	81%	1.12	1 @ 1	79.0	180° / 162°	9.0	2.0	29°	153
IDC14-1048W	48.00	7,175	2,173	2,535	84%	1.25	1 @ 1	79.8	180° / 157°	7.0	1.3	29°	163
IDC14-2060W	66.00	7,520	3,136	4,574	97%	2.07	2 @ 1	142.2	180° / 162°	16.0	6.7	28°	234
IDC14-2072W	72.00	7,567	2,738	4,792	87%	2.24	2 @ 1	149.1	180° / 160°	15.0	6.0	28°	246
IDC14-2078W	78.00	7,040	2,575	4,882	81%	2.24	2 @ 1	156.0	180° / 159°	15.0	6.1	29°	256
IDC14-2084W	84.00	7,040	2,435	4,972	81%	2.24	2 @ 1	162.6	180° / 158°	15.0	6.2	30°	265
IDC14-2096W	99.00	7,175	2,173	5,070	84%	2.50	2 @ 1	176.4	180° / 156°	15.0	6.4	32°	284
IDC14-3096W	99.00	7,567	2,987	6,970	87%	3.19	3 @ 1	215.8	180° / 159°	21.0	12.4	29°	328
IDC14-3108W	108.00	7,567	2,738	7,188	87%	3.36	3 @ 1	226.3	180° / 157°	20.5	12.1	29°	376
IDC14-3120W	117.00	7,040	2,526	7,368	81%	3.36	3 @ 1	240.5	180° / 158°	22.0	14.1	30°	389
IDC14-3132W	132.00	7,040	2,340	7,507	81%	3.49	3 @ 1	258.0	180° / 157°	23.0	15.9	31°	421
IDC14-3144W	144.00	7,175	2,173	7,605	84%	3.75	3 @ 1	271.5	180° / 157°	24.0	17.7	33°	442
IDC14-4144W	144.00	7,567	2,738	9,584	87%	4.48	4 @ 1	308.6	180° / 157°	28.0	23.9	29°	486
IDC14-4156W	156.00	7,040	2,575	9,764	81%	4.48	4 @ 1	371.1	180° / 156°	32.0	23.5	35°	540
IDC14-4168W	168.00	7,040	2,435	9,944	81%	4.48	4 @ 1	385.1	180° / 155°	32.0	23.7	35°	561
IDC14-4180W	180.00	7,040	2,295	10,042	81%	4.74	4 @ 1	399.3	180° / 155°	33.0	25.4	36°	586
IDC14-5180W	180.00	7,567	2,738	11,980	87%	5.60	5 @ 1	443.9	180° / 155°	37.0	31.8	34°	630
IDC14-4192W	192.00	7,175	2,173	10,140	84%	5.00	4 @ 1	417.3	180° / 156°	36.0	30.4	38°	607
IDC14-5192W	192.00	7,175	2,580	12,040	84%	5.69	5 @ 1	458.4	180° / 155°	38.0	33.8	35°	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 entering air & water temperatures, GPM's, opposite end supply/return connections performance data, or vertically mounted units.
- See sheet EP-416 for amp draws/total load requirements.**

MODEL NUMBER CONFIGURATION

IDC14-1 036 W A-F-SS

Series	# of Motors	Opening Width	Heat	Voltage	Intake	Opt. Cabinet Finish
IDC14	1, 2, 3, 4, 5	036" - 192"	W=Hot Water 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	T=Top F=Front	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, 2, 3, 4 & 5 motor(s): 66 dBA, 69 dBA, 71 dBA, 72 dBA & 73 dBA



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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
IDC14-1036W IDC14-1042W IDC14-1048W	1	12.6	20	1	6.5	15	1	6.5	15	1	6.5	15
IDC14-2060W IDC14-2072W IDC14-2078W IDC14-2084W IDC14-2096W	1	25.2	35	1	13.0	20	1	13.0	20	1	13.0	20
IDC14-3096W IDC14-3108W IDC14-3120W IDC14-3132W IDC14-3144W	1	37.8	50	1	19.5	30	1	19.5	30	1	19.5	30
IDC14-4144W IDC14-4156W IDC14-4168W IDC14-4180W IDC14-4192W	1	50.4	70	1	26.0	35	1	26.0	35	1	26.0	35
IDC14-5180W IDC14-5192W	1	63.0	100	1	32.5	45	1	32.5	45	1	32.5	45

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EP-416
April, 2025

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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
IDC14-1036W IDC14-1042W IDC14-1048W	1	6.5	15	1	3.2	15	1	2.0	15	1	9.5	15
IDC14-2060W IDC14-2072W IDC14-2078W IDC14-2084W IDC14-2096W	1	13.0	20	1	6.4	15	1	4.0	15	1	19.0	25
IDC14-3096W IDC14-3108W IDC14-3120W IDC14-3132W IDC14-3144W	1	19.5	30	1	9.6	15	1	6.0	15	1	28.5	40
IDC14-4144W IDC14-4156W IDC14-4168W IDC14-4180W IDC14-4192W	1	26.0	35	1	12.8	20	1	8.0	15	1	38.0	50
IDC14-5180W IDC14-5192W	1	32.5	45	1	16.0	20	1	10.0	15	1	47.5	60

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Electrical Performance Sheet

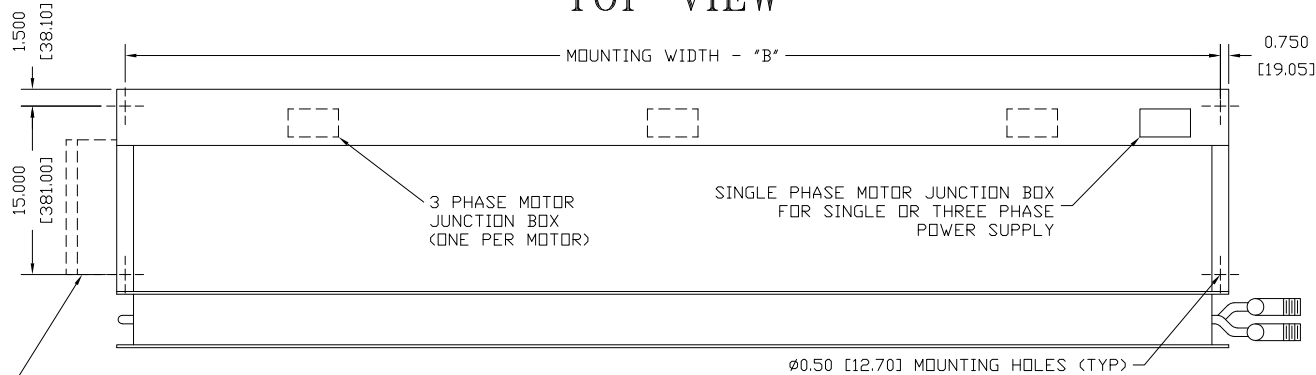
MODEL	# CKTS	230/1/50 (voltage code V) MOTOR AMP DRAW =9.5 each		# CKTS	400/3/50 or 60 (voltage code PD or PF) MOTOR AMP DRAW = 2.3 each		# CKTS	415/3/50 or 60 (voltage code P or PB) MOTOR AMP DRAW = 2.3 each	
		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT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

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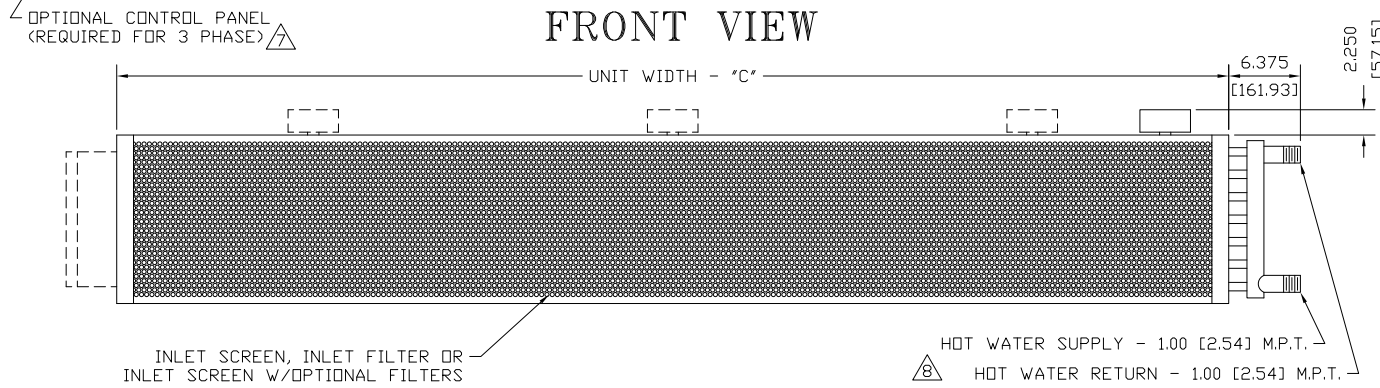
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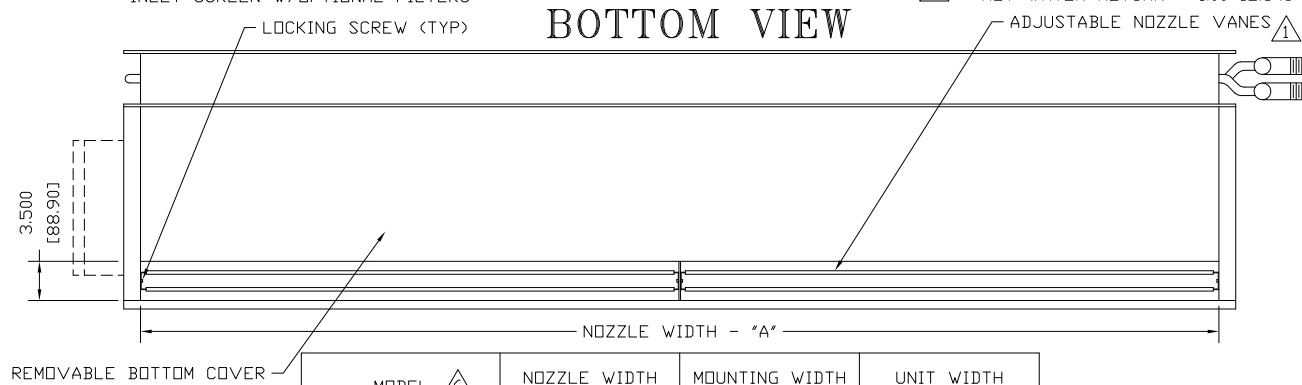
TOP VIEW



FRONT VIEW

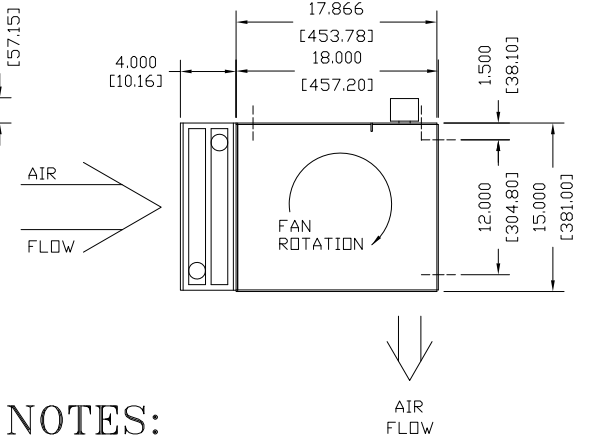


BOTTOM VIEW



IDC14 HOT WATER HEATED

END VIEW

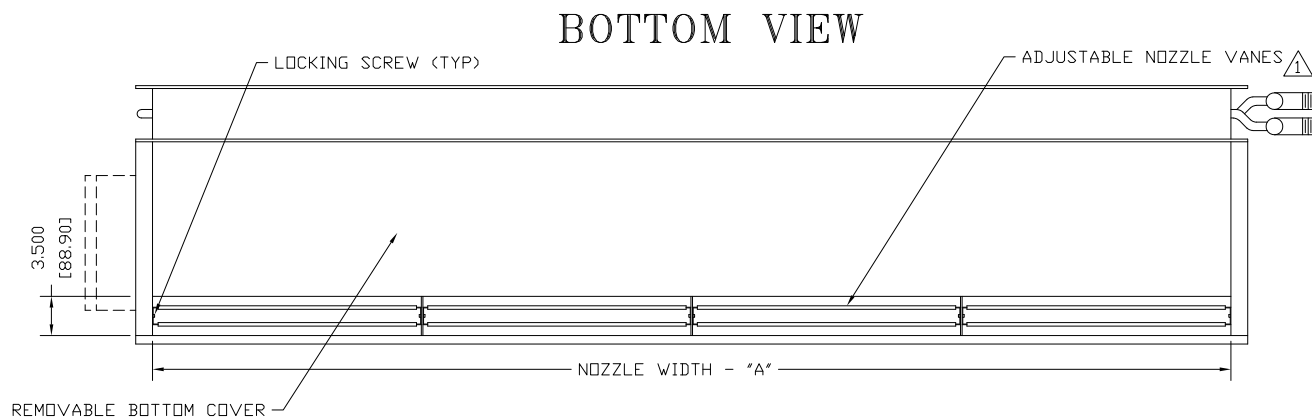
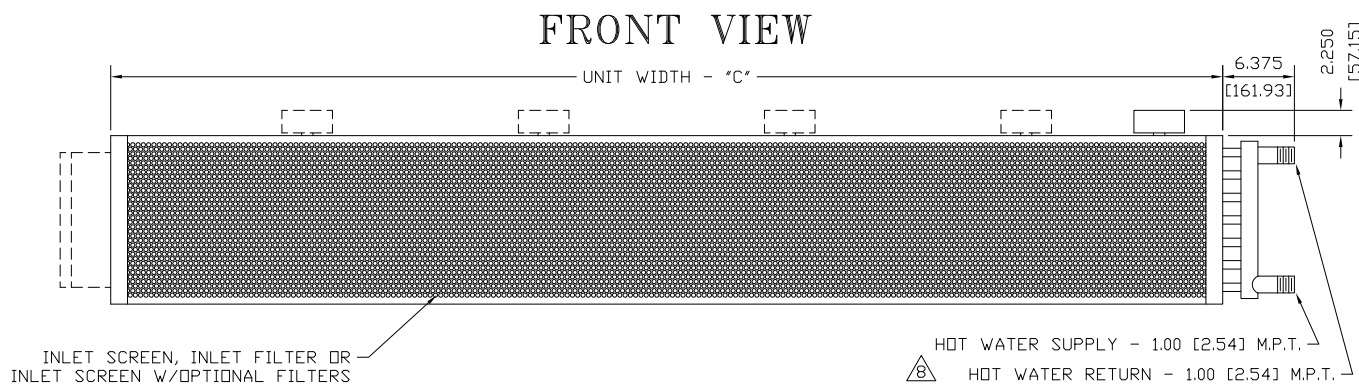
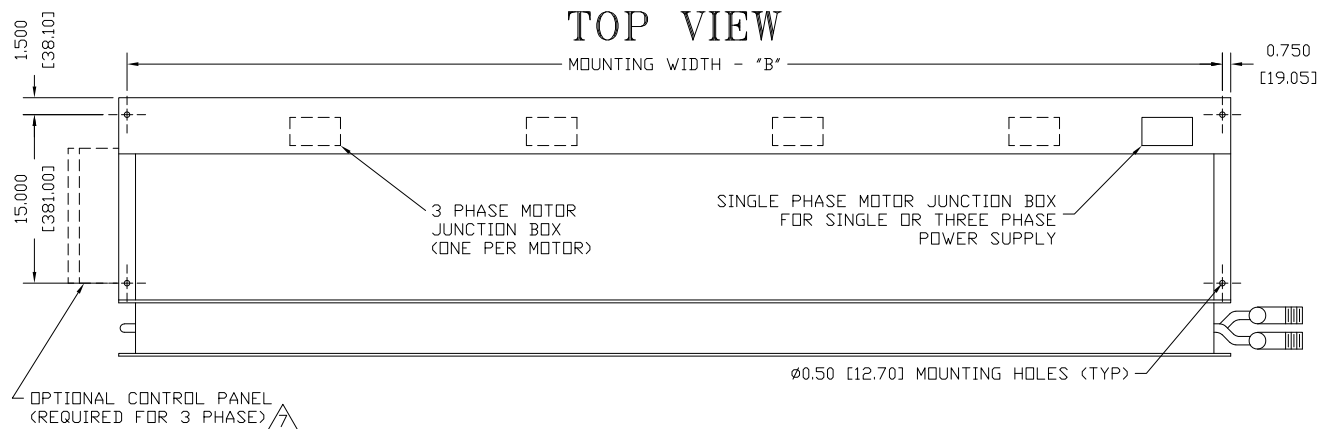


NOTES:

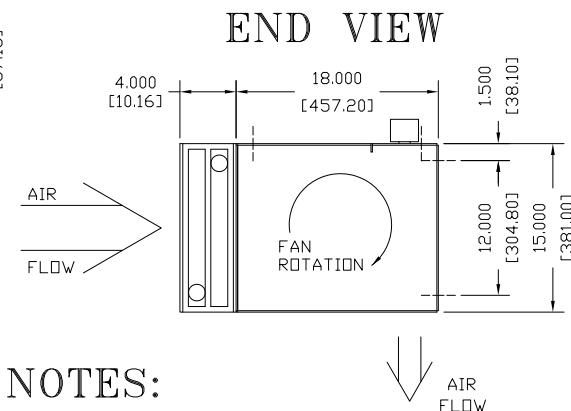
- 1 AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT OBSTRUCTED WHEN DEFLECTED 20° TO EITHER SIDE OF C.
- 2 ELECTRICAL CONNECTIONS TO BE FLEXIBLE.
- 3 FIELD VERIFY DIMENSIONS.
- 4 ANCHORS TO SUPPORTING STRUCTURE BY OTHERS.
- 5 ADEQUACY OF SUPPORTING STRUCTURE IS TO BE VERIFIED BY A PROFESSIONAL STRUCTURAL ENGINEER.
- 6 LETTER "W" IN MODEL NUMBER DESIGNATES, HOT WATER 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"
IDC14-1036W	36.00 [914]	37.50 [953]	39.00 [991]
IDC14-1042W	42.00 [1067]	43.50 [1104]	45.00 [1143]
IDC14-1048W	48.00 [1219]	49.50 [1257]	51.00 [1295]
IDC14-2060W	66.00 [1676]	67.50 [1715]	69.00 [1753]
IDC14-2072W	72.00 [1829]	73.50 [1867]	75.00 [1905]
IDC14-2078W	78.00 [1921]	79.50 [2019]	81.00 [2057]
IDC14-2084W	84.00 [2134]	85.50 [2172]	87.00 [2210]
IDC14-2096W/3096W	99.00 [2515]	100.50 [2553]	102.00 [2591]
IDC14-3108W	108.00 [2743]	109.50 [2781]	111.00 [2819]
IDC14-3120W	117.00 [2972]	118.50 [3010]	120.00 [3048]
IDC14-3132W	132.00 [3353]	133.50 [3391]	135.00 [3429]
IDC14-3144W/4144W	144.00 [3658]	145.50 [3696]	147.00 [3734]

PROJECT		
LOCATION		
ARCHITECT		
ENGINEER		REV. B
DWG. NO.	IDC14-WTR1	TITLE: BERNER
DATE	23JUN2025	MODEL IDC14 AIR CURTAIN
BY	S. Beil	HOT WATER HEATED SYSTEM
REPLACES	11DEC2024	
BY	S. Beil	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.



IDC14 HOT WATER HEATED



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 "W" IN MODEL NUMBER DESIGNATES, HOT WATER 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 ⁶	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	UNIT WIDTH "C"
IDC14-4156W	156.00 [3962]	157.50 [4001]	159.00 [4039]
IDC14-4168W	168.00 [4267]	169.50 [4305]	171.00 [4343]
IDC14-4180W/5180W	180.00 [4572]	181.50 [4610]	183.00 [4648]
IDC14-4192W/5192W	192.00 [4877]	193.50 [4915]	195.00 [4953]

PROJECT			
LOCATION			
ARCHITECT			
ENGINEER			REV. B
DWG. NO.	IDC14-WTR2	TITLE:	BERNER
DATE	23JUN2025		MODEL IDC14 AIR CURTAIN
BY	S. Beil		HOT WATER HEATED SYSTEM
REPLACES	11DEC2024		
BY	S. Beil		BERNER INTERNATIONAL CORP. NEW CASTLE, PA.