



INDUSTRIAL DIRECT DRIVE 12

Hot Water Heated Air Curtain

Data Sheet

For Mounting Heights To 12' (environmental separation)

STANDARD CONSTRUCTION

- ½ hp single speed motor(s) - direct drive (Optional: three-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)	Entering / Leaving Water Temp. (°F)	Water Flow (GPM)	Fluid Pressure Drop (FT. WG.)	Air Temp. Rise (°F)	Net Wt. (lbs)
IDC12-1036W	36.00	5,166	1,728	1,512	87%	0.51	1 @ 1/2	54.4	180° / 161°	6.0	0.9	33°	140
IDC12-1042W	42.00	5,550	1,551	1,583	89%	0.52	1 @ 1/2	58.3	180° / 158°	5.5	0.8	34°	150
IDC12-1048W	48.00	5,292	1,366	1,594	78%	0.53	1 @ 1/2	60.5	180° / 155°	5.0	0.7	35°	160
IDC12-2060W	66.00	4,781	2,010	2,931	85%	0.99	2 @ 1/2	105.7	180° / 157°	9.5	2.4	33°	228
IDC12-2072W	72.00	5,166	1,728	3,024	87%	1.02	2 @ 1/2	112.6	180° / 157°	10.0	2.7	34°	240
IDC12-2078W	78.00	5,166	1,633	3,095	87%	1.03	2 @ 1/2	117.6	180° / 155°	10.0	2.8	35°	250
IDC12-2084W	84.00	5,550	1,551	3,166	89%	1.04	2 @ 1/2	119.5	180° / 153°	9.0	2.3	34°	259
IDC12-2096W	99.00	5,292	1,366	3,188	78%	1.06	2 @ 1/2	129.8	180° / 152°	9.5	2.7	37°	278
IDC12-3096W	99.00	4,781	1,846	4,443	85%	1.50	3 @ 1/2	164.2	180° / 156°	14.0	5.6	34°	319
IDC12-3108W	108.00	5,166	1,728	4,536	87%	1.53	3 @ 1/2	171.8	180° / 155°	14.0	5.8	35°	367
IDC12-3120W	117.00	5,166	1,604	4,678	87%	1.55	3 @ 1/2	179.9	180° / 154°	14.0	5.9	35°	380
IDC12-3132W	132.00	5,292	1,484	4,760	78%	1.57	3 @ 1/2	193.1	180° / 154°	15.0	7.0	37°	412
IDC12-3144W	144.00	5,292	1,366	4,782	78%	1.59	3 @ 1/2	200.1	180° / 153°	15.0	7.1	38°	433
IDC12-4144W	144.00	5,166	1,728	6,048	87%	2.04	4 @ 1/2	234.2	180° / 155°	19.0	11.3	35°	474
IDC12-4156W	156.00	5,166	1,633	6,190	87%	2.06	4 @ 1/2	244.3	180° / 154°	19.0	11.6	36°	498
IDC12-4168W	168.00	5,550	1,551	6,332	89%	2.08	4 @ 1/2	256.7	180° / 154°	20.0	13.1	37°	517
IDC12-4180W	180.00	5,292	1,452	6,354	78%	2.10	4 @ 1/2	264.0	180° / 153°	20.0	13.4	38°	539
IDC12-5180W	180.00	5,166	1,728	7,560	87%	2.55	5 @ 1/2	294.2	180° / 154°	23.0	17.5	36°	580
IDC12-4192W	192.00	5,292	1,366	6,376	78%	2.12	4 @ 1/2	276.0	180° / 154°	22.0	16.5	40°	558
IDC12-5192W	192.00	5,292	1,635	7,631	78%	2.56	5 @ 1/2	305.6	180° / 154°	24.0	19.5	37°	599

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-406 for amp draws/total load requirements.**

MODEL NUMBER CONFIGURATION

IDC12-1 036 W A-F-SS

Series	# of Motors	Opening Width	Heat	Voltage	Intake	Opt. Cabinet Finish
IDC12	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

Sound level measured 10' (3m) from the unit in free field:

1, 2, 3, 4 & 5 motor(s): 63 dBA, 66 dBA, 68 dBA, 69 dBA & 70 dBA

Berner reserves the right to alter specifications without prior notice.

www.berner.com Berner International 800.245.4455
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DS-406
March, 2025

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Electrical Performance Sheet

MODEL	# CKTS	120/1/60 (voltage code A) MOTOR AMP DRAW = 6.5 each		# CKTS	208/1/60 (voltage code B) MOTOR AMP DRAW = 3.5 each		# CKTS	240/1/60 (voltage code J) or 230/1/50 (voltage code V) MOTOR AMP DRAW = 3.5 each		# CKTS	208/3/60 (voltage code X) MOTOR AMP DRAW = 3.5 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
IDC12-1036W IDC12-1042W IDC12-1048W	1	6.5	15	1	3.5	15	1	3.5	15	1	3.5	15
IDC12-2060W IDC12-2072W IDC12-2078W IDC12-2084W IDC12-2096W	1	13.0	20	1	7.0	15	1	7.0	15	1	7.0	15
IDC12-3096W IDC12-3108W IDC12-3120W IDC12-3132W IDC12-3144W	1	19.5	30	1	10.5	15	1	10.5	15	1	10.5	15
IDC12-4144W IDC12-4156W IDC12-4168W IDC12-4180W IDC12-4192W	1	26.0	35	1	14.0	20	1	14.0	20	1	14.0	20
IDC12-5180W IDC12-5192W	1	32.5	45	1	17.5	25	1	17.5	25	1	17.5	25

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Electrical Performance Sheet

MODEL	# CKTS	240/3/60 (voltage code Y) MOTOR AMP DRAW = 3.5 each		# CKTS	480/3/60 (voltage code Z) MOTOR AMP DRAW = 1.4 each		# CKTS	600/3/60 (voltage code Q) MOTOR AMP DRAW = 1.0 each		# CKTS	380/3/50 (voltage code O) MOTOR AMP DRAW = 3.5 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
IDC12-1036W IDC12-1042W IDC12-1048W	1	3.5	15	1	1.4	15	1	1.0	15	1	3.5	15
IDC12-2060W IDC12-2072W IDC12-2078W IDC12-2084W IDC12-2096W	1	7.0	15	1	2.8	15	1	2.0	15	1	7.0	15
IDC12-3096W IDC12-3108W IDC12-3120W IDC12-3132W IDC12-3144W	1	10.5	15	1	4.2	15	1	3.0	15	1	10.5	15
IDC12-4144W IDC12-4156W IDC12-4168W IDC12-4180W IDC12-4192W	1	14.0	20	1	5.6	15	1	4.0	15	1	14.0	20
IDC12-5180W IDC12-5192W	1	17.5	25	1	7.0	15	1	5.0	15	1	17.5	25

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Electrical Performance Sheet

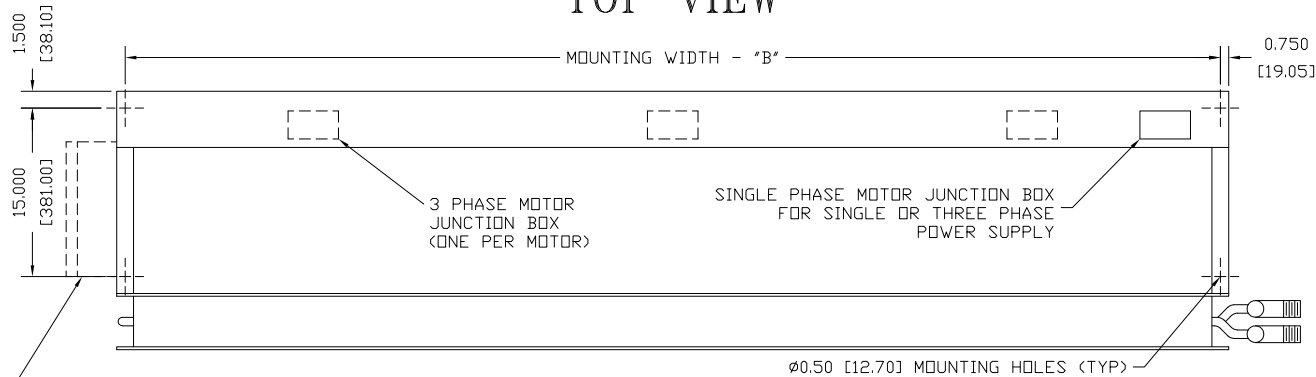
MODEL	# CKTS	400/3/50 or 60 (voltage code PD or PF) MOTOR AMP DRAW = 1.2 each		# CKTS	415/3/50 or 60 (voltage code P or PB) MOTOR AMP DRAW = 1.2 each	
		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
IDC12-1036W IDC12-1042W IDC12-1048W	1	1.2	15	1	1.2	15
IDC12-2060W IDC12-2072W IDC12-2078W IDC12-2084W IDC12-2096W	1	2.4	15	1	2.4	15
IDC12-3096W IDC12-3108W IDC12-3120W IDC12-3132W IDC12-3144W	1	3.6	15	1	3.6	15
IDC12-4144W IDC12-4156W IDC12-4168W IDC12-4180W IDC12-4192W	1	4.8	15	1	4.8	15
IDC12-5180W IDC12-5192W	1	6.0	15	1	6.0	15

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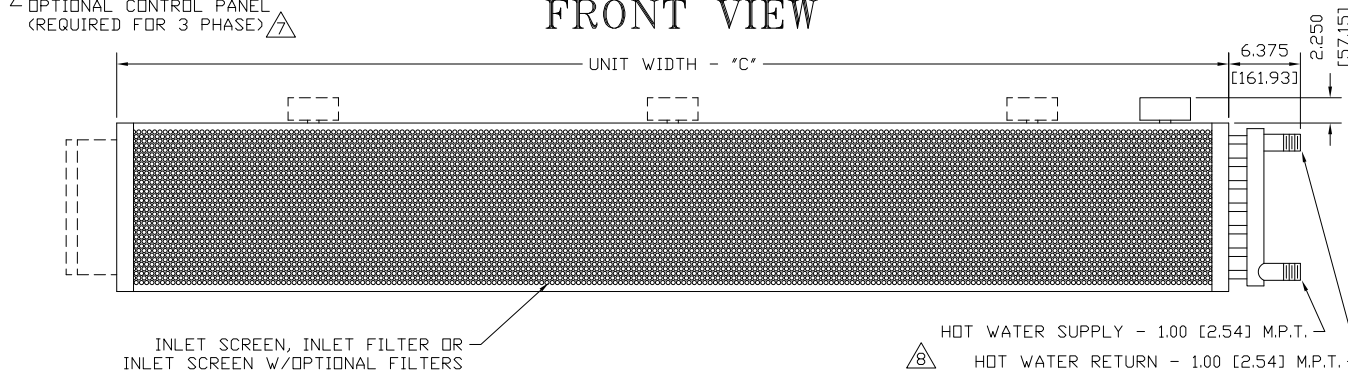
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EP-406
April, 2025

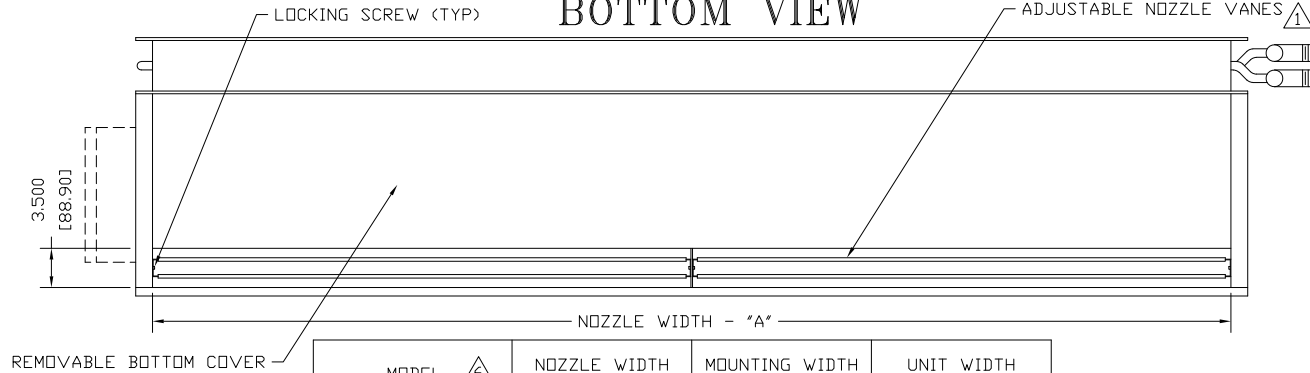
TOP VIEW



FRONT VIEW



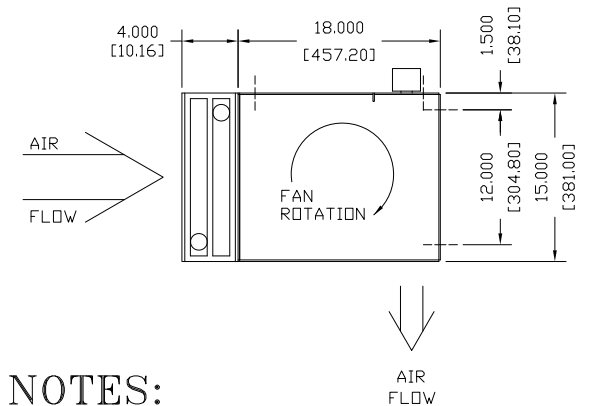
BOTTOM VIEW



MODEL	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	UNIT WIDTH "C"
IDC12-1036W	36.00 [914]	37.50 [953]	39.00 [991]
IDC12-1042W	42.00 [1067]	43.50 [1104]	45.00 [1143]
IDC12-1048W	48.00 [1219]	49.50 [1257]	51.00 [1295]
IDC12-2060W	66.00 [1676]	67.50 [1715]	69.00 [1753]
IDC12-2072W	72.00 [1829]	73.50 [1867]	75.00 [1905]
IDC12-2078W	78.00 [1921]	79.50 [2019]	81.00 [2057]
IDC12-2084W	84.00 [2134]	85.50 [2172]	87.00 [2210]
IDC12-2096W/3096W	99.00 [2515]	100.50 [2553]	102.00 [2591]
IDC12-3108W	108.00 [2743]	109.50 [2781]	111.00 [2819]
IDC12-3120W	117.00 [2972]	118.50 [3010]	120.00 [3048]
IDC12-3132W	132.00 [3353]	133.50 [3391]	135.00 [3429]
IDC12-3144W/4144W	144.00 [3658]	145.50 [3696]	147.00 [3734]

IDC12 HOT WATER HEATED

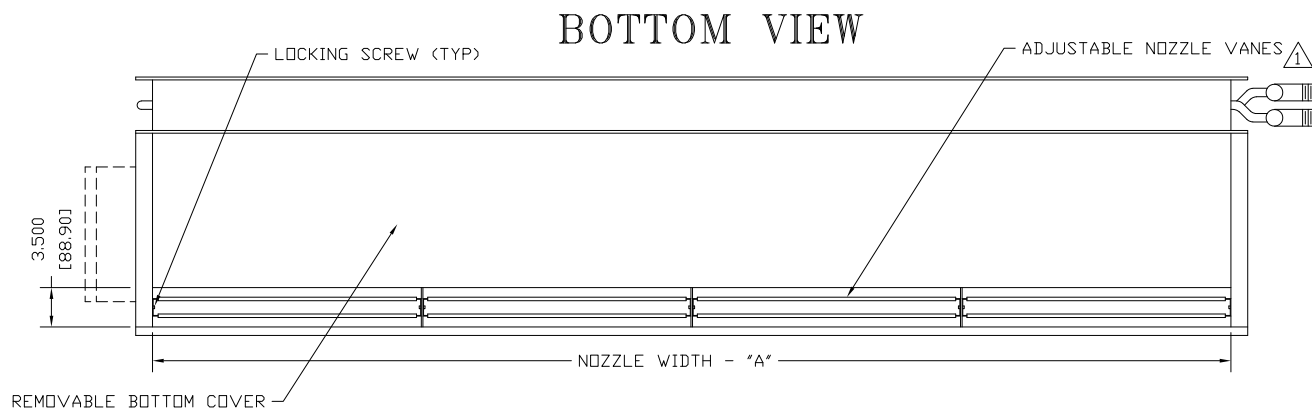
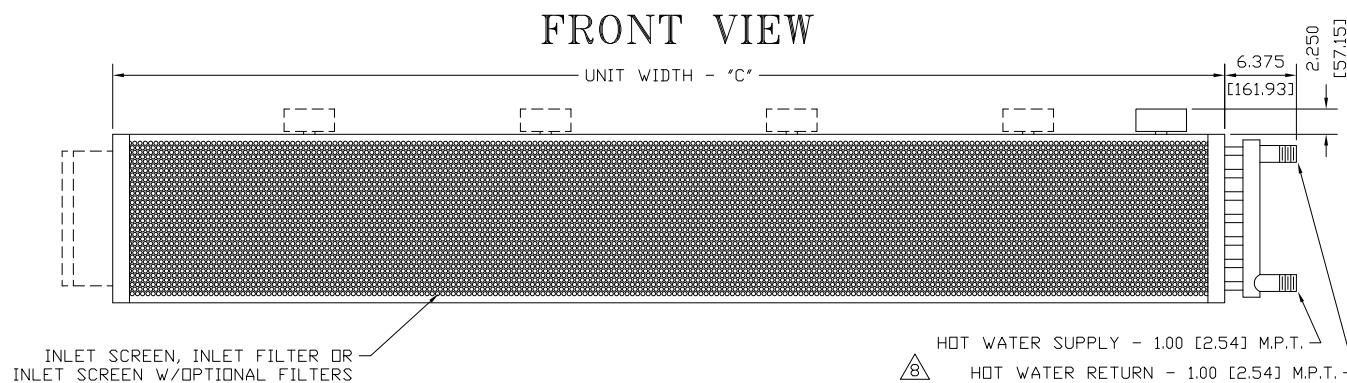
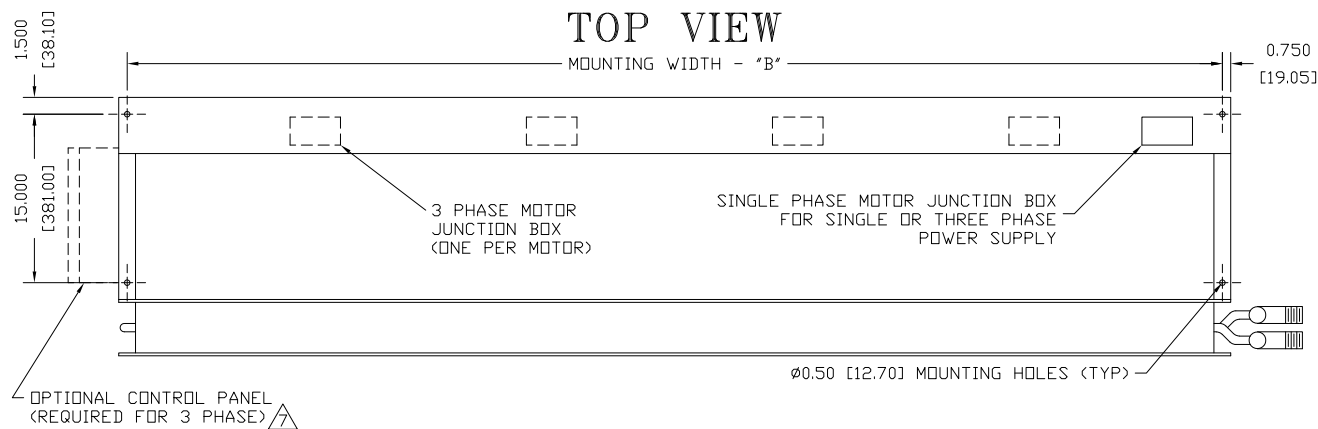
END VIEW



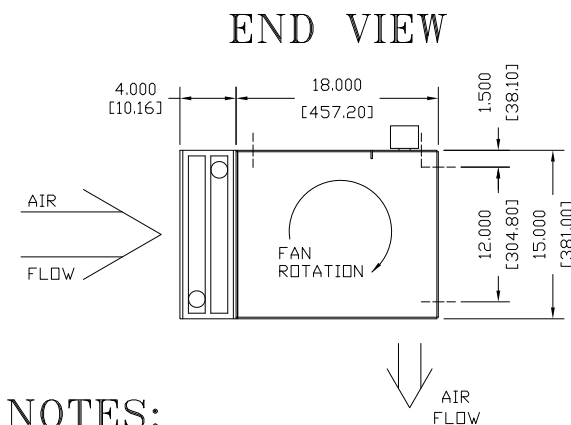
NOTES:

- 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).

PROJECT		
LOCATION		
ARCHITECT		
ENGINEER		REV. B
DWG. NO.	IDC12-WTR1	TITLE: BERNER
DATE	23JUN2025	MODEL IDC12 AIR CURTAIN
BY	S. Beil	HOT WATER HEATED SYSTEM
REPLACES	11DEC2024	
BY	S. Beil	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.



IDC12 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"
IDC12-4156W	156.00 [3962]	157.50 [4001]	159.00 [4039]
IDC12-4168W	168.00 [4267]	169.50 [4305]	171.00 [4343]
IDC12-4180W/5180W	180.00 [4572]	181.50 [4610]	183.00 [4648]
IDC12-4192W/5192W	192.00 [4877]	193.50 [4915]	195.00 [4953]

PROJECT			
LOCATION			
ARCHITECT			
ENGINEER			REV. B
DWG. NO.	IDC12-WTR2	TITLE:	BERNER
DATE	23JUN2025		MODEL IDC12 AIR CURTAIN
BY	S. Beil		HOT WATER HEATED SYSTEM
REPLACES	11DEC2024		
BY	S. Beil		BERNER INTERNATIONAL CORP. NEW CASTLE, PA.