

For Door 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	60.5	180° / 159°	6.0	0.8	37°	140
IDC12-1042W	42.00	5,550	1,551	1,583	89%	0.52	1 @ 1/2	64.5	180° / 156°	5.5	0.7	37°	150
IDC12-1048W	48.00	5,292	1,366	1,594	78%	0.53	1 @ 1/2	66.6	180° / 153°	5.0	0.6	38°	160
IDC12-1060W	66.00	5,079	1,019	1,634	74%	0.54	1 @ 1/2	76.2	180° / 149°	5.0	0.6	43°	181
IDC12-2060W	66.00	4,781	2,010	2,931	85%	0.99	2 @ 1/2	117.5	180° / 155°	9.5	2.1	37°	228
IDC12-2072W	72.00	5,166	1,728	3,024	87%	1.02	2 @ 1/2	124.9	180° / 154°	10.0	2.4	38°	240
IDC12-2078W	78.00	5,166	1,633	3,095	87%	1.03	2 @ 1/2	130.3	180° / 153°	10.0	2.4	38°	250
IDC12-2084W	84.00	5,550	1,551	3,166	89%	1.04	2 @ 1/2	131.9	180° / 150°	9.0	2.0	38°	259
IDC12-2096W	99.00	5,292	1,366	3,188	78%	1.06	2 @ 1/2	142.6	180° / 149°	9.5	2.3	41°	278
IDC12-3096W	99.00	4,781	1,846	4,443	85%	1.50	3 @ 1/2	182.5	180° / 153°	14.0	4.9	38°	319
IDC12-2108W	108.00	5,079	1,230	3,228	74%	1.07	2 @ 1/2	148.0	180° / 148°	9.5	2.4	42°	326
IDC12-3108W	108.00	5,166	1,728	4,536	87%	1.53	3 @ 1/2	190.5	180° / 152°	14.0	5.0	38°	367
IDC12-2120W	117.00	5,079	1,149	3,268	74%	1.08	2 @ 1/2	155.0	180° / 148°	10.0	2.7	43°	339
IDC12-3120W	117.00	5,166	1,604	4,678	87%	1.55	3 @ 1/2	199.1	180° / 151°	14.0	5.1	39°	380
IDC12-3132W	132.00	5,292	1,484	4,760	78%	1.57	3 @ 1/2	213.1	180° / 151°	15.0	6.1	41°	412
IDC12-3144W	144.00	5,292	1,366	4,782	78%	1.59	3 @ 1/2	220.2	180° / 150°	15.0	6.3	42°	433
IDC12-4144W	144.00	5,166	1,728	6,048	87%	2.04	4 @ 1/2	259.7	180° / 152°	19.0	9.9	39°	474
IDC12-4156W	156.00	5,166	1,633	6,190	87%	2.06	4 @ 1/2	270.3	180° / 151°	19.0	10.2	40°	498
IDC12-4168W	168.00	5,550	1,551	6,332	89%	2.08	4 @ 1/2	283.7	180° / 151°	20.0	11.5	41°	517
IDC12-4180W	180.00	5,292	1,452	6,354	78%	2.10	4 @ 1/2	291.0	180° / 150°	20.0	11.8	42°	539
IDC12-5180W	180.00	5,166	1,728	7,560	87%	2.55	5 @ 1/2	326.1	180° / 151°	23.0	15.5	39°	580
IDC12-4192W	192.00	5,292	1,366	6,376	78%	2.12	4 @ 1/2	304.0	180° / 152°	22.0	14.6	44°	558
IDC12-5192W	192.00	5,292	1,635	7,631	78%	2.56	5 @ 1/2	338.2	180° / 151°	24.0	17.2	40°	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. *Berner does not recommend IDC12-1060W, IDC12-2108W and IDC12-2120W, exist only as an equivalent to competitors' models. 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=220/1/50 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

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

\*Suitable for 50hz  
Berner reserves the right to alter specifications without prior notice.



# INDUSTRIAL DIRECT DRIVE 12

## Hot Water Heated Air Curtain

### Electrical Performance Sheet

MODEL	120/1/60 (voltage code A) MOTOR AMP DRAW = 6.5 each			208/1/60 (voltage code B) MOTOR AMP DRAW = 3.5 each			240/1/60 (voltage code J) or 220/1/50 (voltage code V) MOTOR AMP DRAW = 3.5 each			208/3/60 (voltage code X) MOTOR AMP DRAW = 3.5 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
IDC12-1036W IDC12-1042W IDC12-1048W IDC12-1060W	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 IDC12-2108W IDC12-2120W	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



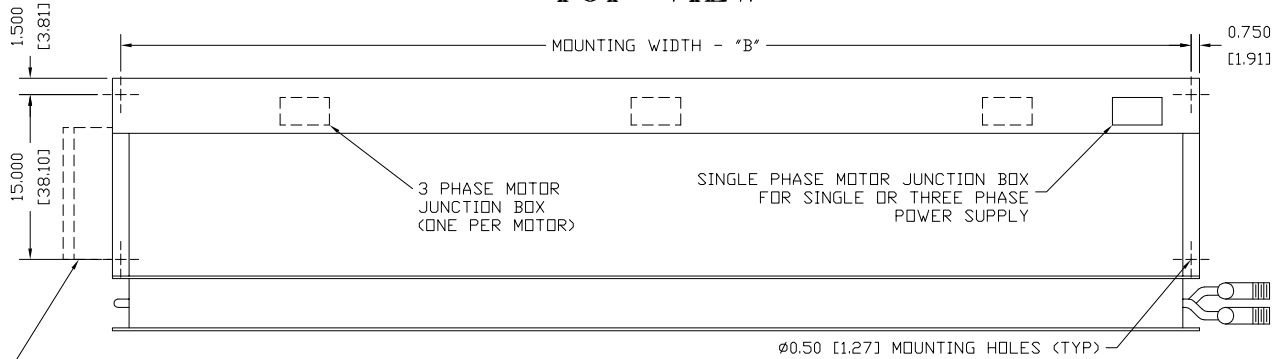
# INDUSTRIAL DIRECT DRIVE 12

## Hot Water Heated Air Curtain

### Electrical Performance Sheet

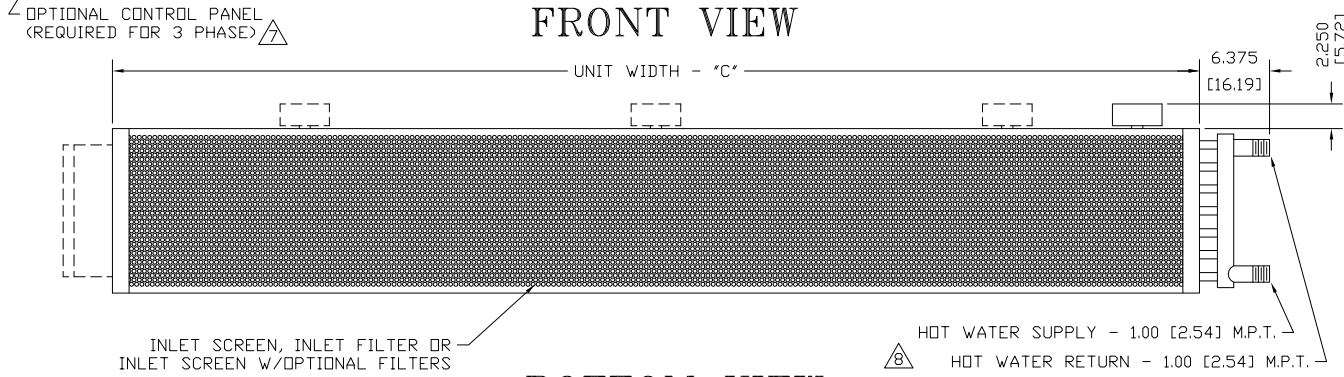
MODEL	# CKTS	240/3/60 (voltage code Y) MOTOR AMP DRAW = 3.5 each		480/3/60 (voltage code Z) MOTOR AMP DRAW = 1.4 each		600/3/60 (voltage code Q) MOTOR AMP DRAW = 1.0 each		380/3/50 (voltage code O) MOTOR AMP DRAW = 3.5 each				
		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT	# CKTS	AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
IDC12-1036W IDC12-1042W IDC12-1048W IDC12-1060W	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 IDC12-2108W IDC12-2120W	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

# TOP VIEW

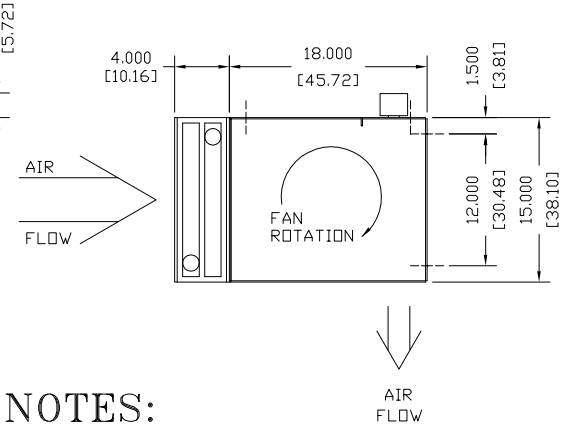


# IDC12 HOT WATER HEATED

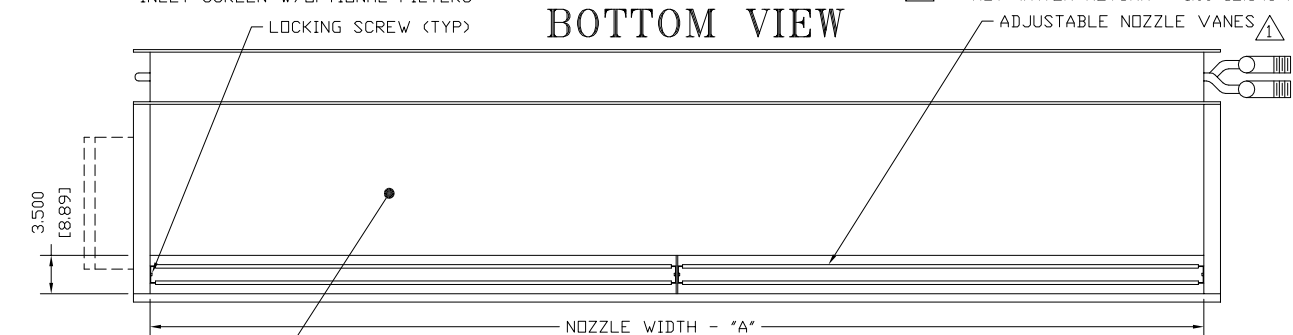
# FRONT VIEW



# END VIEW



# BOTTOM VIEW



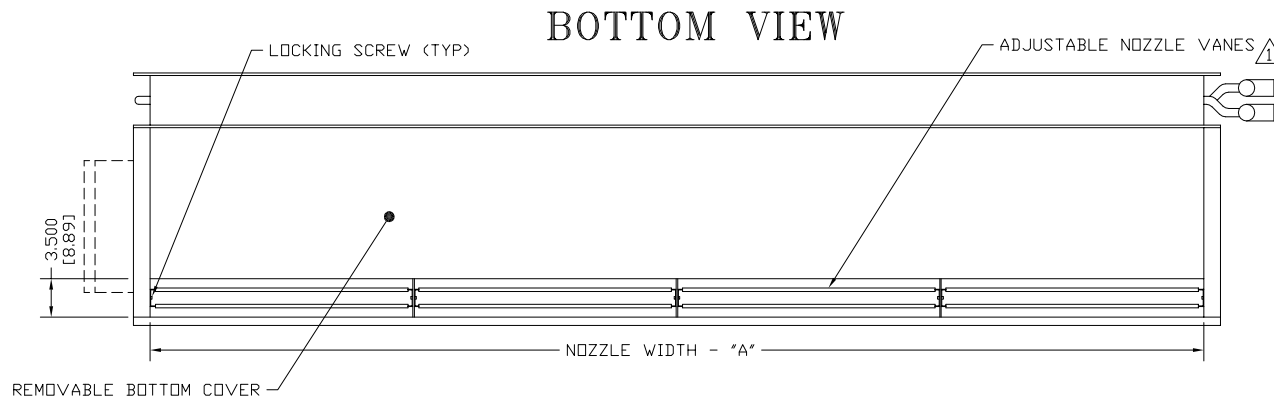
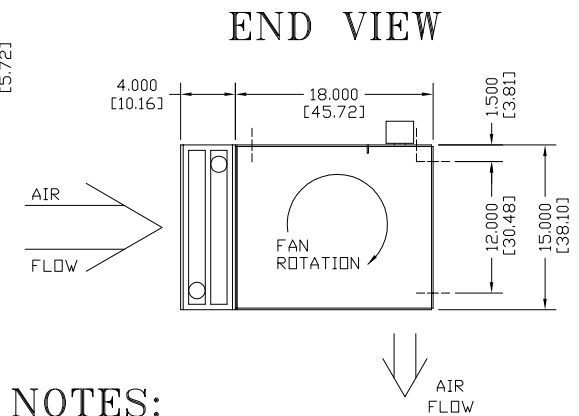
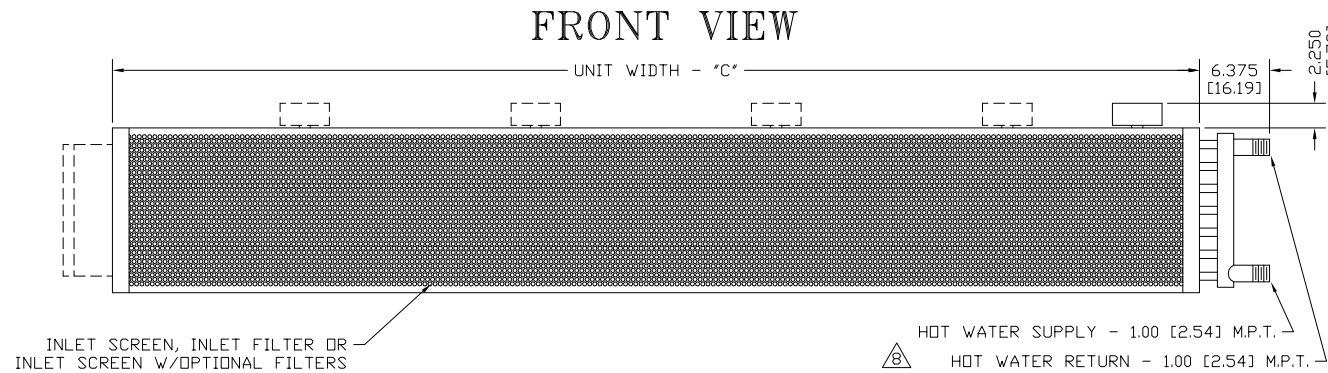
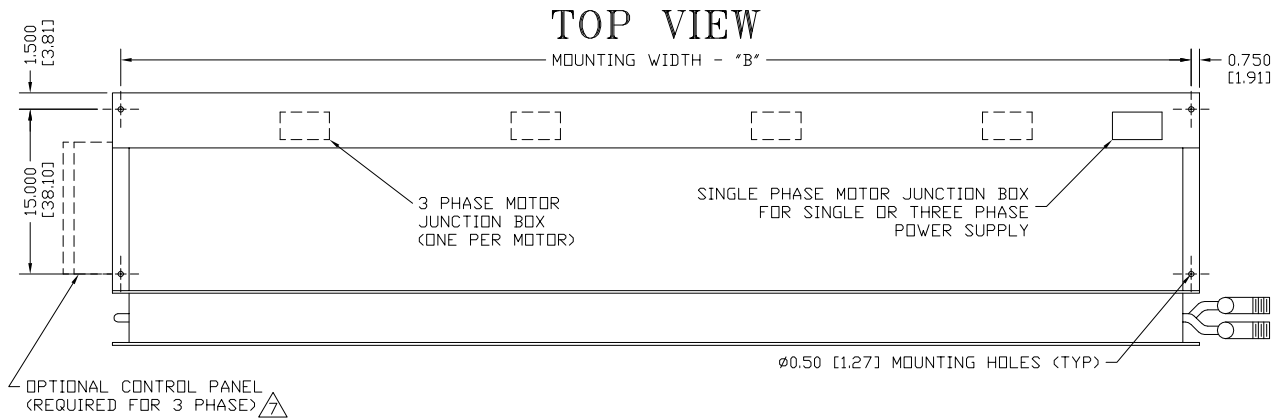
## NOTES:

- 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 [CENTIMETERS].

MODEL	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	UNIT WIDTH "C"
IDC12-1036W	36.00 [91.44]	37.50 [95.25]	39.00 [99.06]
IDC12-1042W	42.00 [106.68]	43.50 [110.49]	45.00 [114.30]
IDC12-1048W	48.00 [121.92]	49.50 [125.73]	51.00 [129.54]
IDC12-1060W/2060W	66.00 [167.64]	67.50 [171.45]	69.00 [175.26]
IDC12-2072W	72.00 [182.88]	73.50 [186.69]	75.00 [190.50]
IDC12-2078W	78.00 [192.12]	79.50 [201.93]	81.00 [205.74]
IDC12-2084W	84.00 [213.36]	85.50 [217.17]	87.00 [220.98]
IDC12-2096W/3096W	99.00 [251.46]	100.50 [255.27]	102.00 [259.08]
IDC12-2108W/3108W	108.00 [274.32]	109.50 [278.13]	111.00 [281.94]
IDC12-2120W/3120W	117.00 [297.18]	118.50 [300.99]	120.00 [304.80]
IDC12-3132W	132.00 [335.28]	133.50 [339.09]	135.00 [342.90]
IDC12-3144W/4144W	144.00 [365.76]	145.50 [369.57]	147.00 [373.38]

PROJECT		
LOCATION		
ARCHITECT		
ENGINEER		
DWG. NO.	IDC12-WTR1	TITLE: <b>BERNER</b>
DATE	28MAY14	MODEL IDC12 AIR CURTAIN
BY	S. Beil	HOT WATER HEATED SYSTEM
REPLACES	-	
BY	-	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 [CENTIMETERS].

MODEL ⚠	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	UNIT WIDTH "C"
IDC12-4156W	156.00 [396.24]	157.50 [400.05]	159.00 [403.86]
IDC12-4168W	168.00 [426.72]	169.50 [430.53]	171.00 [434.34]
IDC12-4180W/5180W	180.00 [457.20]	181.50 [461.01]	183.00 [464.82]
IDC12-4192W/5192W	192.00 [487.68]	193.50 [491.49]	195.00 [495.30]

PROJECT		TITLE: <b>BERNER</b> MODEL IDC12 AIR CURTAIN HOT WATER HEATED SYSTEM
LOCATION		
ARCHITECT		BY S. Beil
ENGINEER		
DWG. NO.	IDC12-WTR2	REPLACES - BY -
DATE	28MAY14	
BERNER INTERNATIONAL CORP. NEW CASTLE, PA.		