HAZARDOUS LOCATION SERIES 12
Hot Water Heated Air Curtain
Data Sheet

For Door Heights To 12' (environmental separation)

STANDARD CONSTRUCTION

- Constructed for Class I, Division 1 & 2, Groups C & D
- Constructed for Class II, Division 1 & 2, Groups F & G
- ½ hp explosion proof single speed motor(s) temperature code T3C
- Interior and exterior gray zinc epoxy powder coated aluminized steel cabinet with aluminum screen and access panels
- External mount explosion proof junction box (One per motor)
- Aluminum impellers in a matching housing
- Wall & Top Mounting
- High efficiency Pro-V Nozzle
- Coil Features:
  - Aluminum casing
  - 5/8" copper tube with .035" wall
  - Aluminum fins
  - Leak tested at 450 psi

2 Year Limited Warranty

Made in USA

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)
HLC12-1036W	36.00	5,166	1,728	1,512	87%	0.51	1 @ 1/2	60.5	180° / 159°	6.0	0.8	37°	137
HLC12-1042W	42.00	5,550	1,551	1,583	89%	0.52	1 @ 1/2	64.5	180° / 156°	5.5	0.7	37°	147
HLC12-1048W	48.00	5,292	1,366	1,594	78%	0.53	1 @ 1/2	66.6	180° / 153°	5.0	0.6	38°	157
HLC12-1060W	66.00	5,079	1,019	1,634	74%	0.54	1 @ 1/2	76.2	180° / 149°	5.0	0.6	43°	178
HLC12-2060W	66.00	4,781	2,010	2,931	85%	0.99	2 @ 1/2	117.5	180° / 155°	9.5	2.1	37°	240
HLC12-2072W	72.00	5,166	1,728	3,024	87%	1.02	2 @ 1/2	124.9	180° / 154°	10.0	2.4	38°	252
HLC12-2078W	78.00	5,166	1,633	3,095	87%	1.03	2 @ 1/2	130.3	180° / 153°	10.0	2.4	38°	262
HLC12-2084W	84.00	5,550	1,551	3,166	89%	1.04	2 @ 1/2	131.9	180° / 150°	9.0	2.0	38°	271
HLC12-2096W	99.00	5,292	1,366	3,188	78%	1.06	2 @ 1/2	142.6	180° / 149°	9.5	2.3	41°	290
HLC12-3096W	99.00	4,781	1,846	4,443	85%	1.50	3 @ 1/2	182.5	180° / 153°	14.0	4.9	38°	347
HLC12-2108W	108.00	5,079	1,230	3,228	74%	1.07	2 @ 1/2	148.0	180° / 148°	9.5	2.4	42°	338
HLC12-3108W	108.00	5,166	1,728	4,536	87%	1.53	3 @ 1/2	190.5	180° / 152°	14.0	5.0	38°	395
HLC12-2120W	117.00	5,079	1,149	3,268	74%	1.08	2 @ 1/2	155.0	180° / 148°	10.0	2.7	43°	351
HLC12-3120W	117.00	5,166	1,604	4,678	87%	1.55	3 @ 1/2	199.1	180° / 151°	14.0	5.1	39°	408
HLC12-3132W	132.00	5,292	1,484	4,760	78%	1.57	3 @ 1/2	213.1	180° / 151°	15.0	6.1	41°	440
HLC12-3144W	144.00	5,292	1,366	4,782	78%	1.59	3 @ 1/2	220.2	180° / 150°	15.0	6.3	42°	461
HLC12-4144W	144.00	5,166	1,728	6,048	87%	2.04	4 @ 1/2	259.7	180° / 152°	19.0	9.9	39°	517
HLC12-4156W	156.00	5,166	1,633	6,190	87%	2.06	4 @ 1/2	270.3	180° / 151°	19.0	10.2	40°	541
HLC12-4168W	168.00	5,550	1,551	6,332	89%	2.08	4 @ 1/2	283.7	180° / 151°	20.0	11.5	41°	560
HLC12-4180W	180.00	5,292	1,452	6,354	78%	2.10	4 @ 1/2	291.0	180° / 150°	20.0	11.8	42°	582
HLC12-5180W	180.00	5,166	1,728	7,560	87%	2.55	5 @ 1/2	326.1	180° / 151°	23.0	15.5	39°	639
HLC12-4192W	192.00	5,292	1,366	6,376	78%	2.12	4 @ 1/2	304.0	180° / 152°	22.0	14.6	44°	601
HLC12-5192W	192.00	5,292	1,635	7,631	78%	2.56	5 @ 1/2	338.2	180° / 151°	24.0	17.2	40°	658

NOTES:

1. Performance data based on AMCA licensed data from unheated IDC12 units.
2. Coil performance based on 65°F entering air temperature.
3. Standard connection same end supply/return (Optional: opposite end supply/return).
4. 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.
5. Maximum leaving air temperature shall not exceed 120°F.
6. Consult factory for 50 Hz operation, alternate entering air & water temperatures, GPM's, and opposite end supply/return connections performance data.
7. Vertically mounted Hazardous Location Series air curtains not available.

Berner does not recommend HLC12-1060W, HLC12-2108W, and HLC12-2120W, exist only as an equivalent to competitors' models.

See sheet EP-906 for amp draws/total load requirements.

MODEL NUMBER CONFIGURATION

HLC12-1 036 W A

Series	# of Motors	Opening Width	Heat	Voltage
HLC12	1, 2, 3, 4, 5	036" - 192"	W=Hot Water Heated	A=120/1/60 B=208/1/60 J=240/1/60 D=208/3/60 E=240/3/60 H=480/3/60 I=600/3/60

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 Corporation 800.245.4455
111 Progress Ave. / New Castle / PA / 16101 / USA

DS-906
July, 2015

HAZARDOUS LOCATION SERIES 12
Hot Water Heated Air Curtain
Electrical Performance Sheet

	120/1/60 (voltage code A) MOTOR AMP DRAW = 7.4 each			208/1/60 (voltage code B) MOTOR AMP DRAW = 3.9 each			240/1/60 (voltage code J) MOTOR AMP DRAW = 3.7 each		
MODEL	**# CKTS**	**AMPS PER CIRCUIT**	**BREAKER RATING PER CIRCUIT**	**# CKTS**	**AMPS PER CIRCUIT**	**BREAKER RATING PER CIRCUIT**	**# CKTS**	**AMPS PER CIRCUIT**	**BREAKER RATING PER CIRCUIT**
HLC12-1036W HLC12-1042W HLC12-1048W HLC12-1060W	1	7.4	15	1	3.9	15	1	3.7	15
HLC12-2060W HLC12-2072W HLC12-2078W HLC12-2084W HLC12-2096W HLC12-2108W HLC12-2120W	1	14.8	20	1	7.8	15	1	7.4	15
HLC12-3096W HLC12-3108W HLC12-3120W HLC12-3132W HLC12-3144W	1	22.2	30	1	11.7	15	1	11.1	15
HLC12-4144W HLC12-4156W HLC12-4168W HLC12-4180W HLC12-4192W	1	29.6	40	1	15.6	20	1	14.8	20
HLC12-5180W HLC12-5192W	1	37.0	50	1	19.5	25	1	18.5	25

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111 Progress Ave. / New Castle / PA / 16101 / USA

EP-906
May, 2023

HAZARDOUS LOCATION SERIES 12

Hot Water Heated Air Curtain
Electrical Performance Sheet

	208/3/60 (voltage code D) MOTOR AMP DRAW = 3.0 each		240/3/60 (voltage code E) MOTOR AMP DRAW = 2.8 each		480/3/60 (voltage code H) MOTOR AMP DRAW = 1.4 each		600/3/60 (voltage code I) MOTOR AMP DRAW = 0.9 each		
MODEL	**# 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**
HLC12-1036W HLC12-1042W HLC12-1048W HLC12-1060W	1	3.0	15	1	2.8	15	1	1.4	15	1	0.9	15
HLC12-2060W HLC12-2072W HLC12-2078W HLC12-2084W HLC12-2096W HLC12-2108W HLC12-2120W	1	6.0	15	1	5.6	15	1	2.8	15	1	1.8	15
HLC12-3096W HLC12-3108W HLC12-3120W HLC12-3132W HLC12-3144W	1	9.0	15	1	8.4	15	1	4.2	15	1	2.7	15
HLC12-4144W HLC12-4156W HLC12-4168W HLC12-4180W HLC12-4192W	1	12.0	15	1	11.2	15	1	5.6	15	1	3.6	15
HLC12-5180W HLC12-5192W	1	15.0	20	1	14.0	20	1	7.0	15	1	5.6	15

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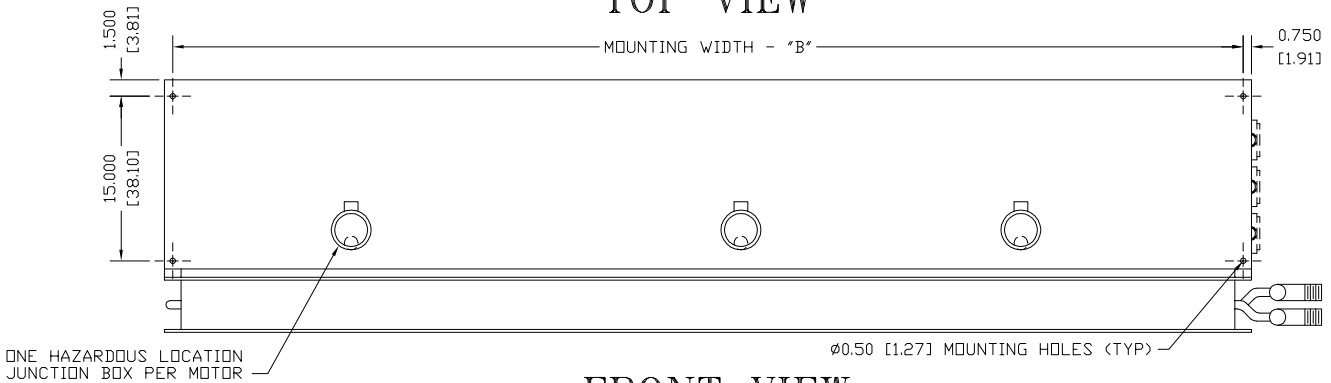
111 Progress Ave. / New Castle / PA / 16101 / USA

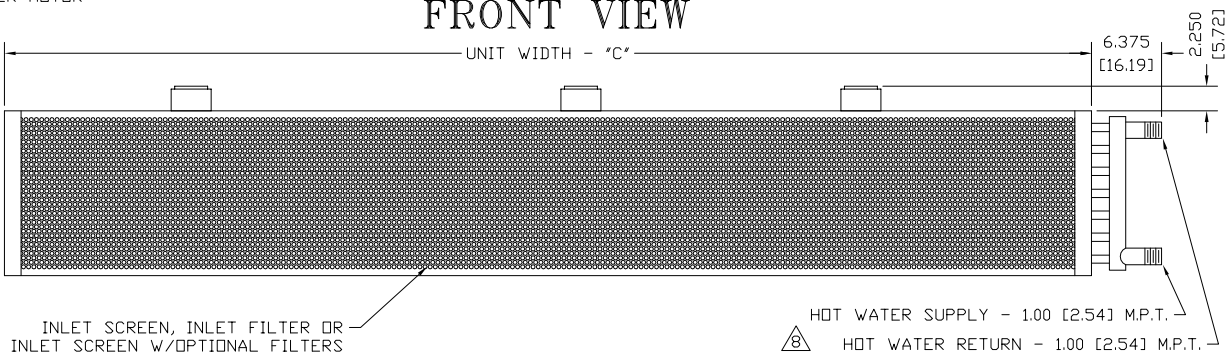
EP-906
May, 2023

HLC12
HOT WATER HEATED HAZARDOUS LOCATION

TOP VIEW



FRONT VIEW



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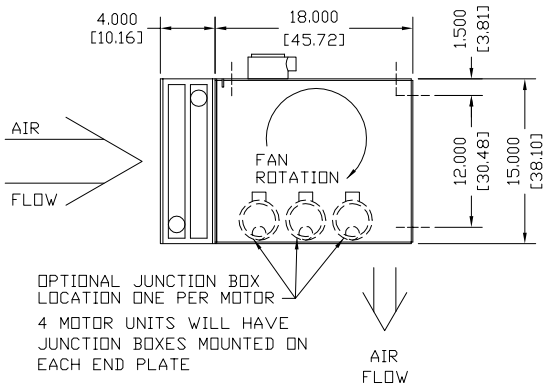
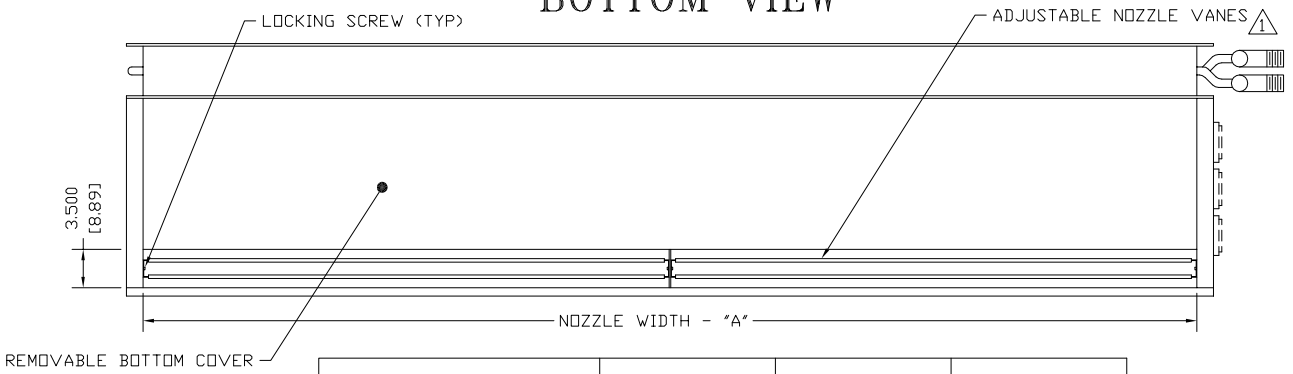


BOTTOM VIEW



MODEL 6	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	UNIT WIDTH "C"
HLC12-1036W	36.00 [91.44]	37.50 [95.25]	39.00 [99.06]
HLC12-1042W	42.00 [106.68]	43.50 [110.49]	45.00 [114.30]
HLC12-1048W	48.00 [121.92]	49.50 [125.73]	51.00 [129.54]
HLC12-1060W/2060W	66.00 [167.64]	67.50 [171.45]	69.00 [175.26]
HLC12-2072W	72.00 [182.88]	73.50 [186.69]	75.00 [190.50]
HLC12-2078W	78.00 [192.12]	79.50 [201.93]	81.00 [205.74]
HLC12-2084W	84.00 [213.36]	85.50 [217.17]	87.00 [220.98]
HLC12-2096W/3096W	99.00 [251.46]	100.50 [255.27]	102.00 [259.08]
HLC12-2108W/3108W	108.00 [274.32]	109.50 [278.13]	111.00 [281.94]
HLC12-2120W/3120W	117.00 [297.18]	118.50 [300.99]	120.00 [304.80]
HLC12-3132W	132.00 [335.28]	133.50 [339.09]	135.00 [342.90]
HLC12-3144W/4144W	144.00 [365.76]	145.50 [369.57]	147.00 [373.38]

NOTES:

1. AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT OBSTRUCTED WHEN DEFLECTED 20° TO EITHER SIDE OF ℄.
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. REMOTE OPTIONAL CONTROL PANEL AVAILABLE: NEMA 4/12 FOR NON HAZARDOUS LOCATION MOUNTING; NEMA 7/9 FOR HAZARDOUS LOCATION MOUNTING. PLEASE SPECIFY.
8. COIL CONNECTIONS AS SHOWN, OPPOSITE AND SAME END CONNECTIONS AVAILABLE, PLEASE SPECIFY.
9. DIMENSIONS IN INCHES [CENTIMETERS].

PROJECT	
LOCATION	
ARCHITECT	
ENGINEER	

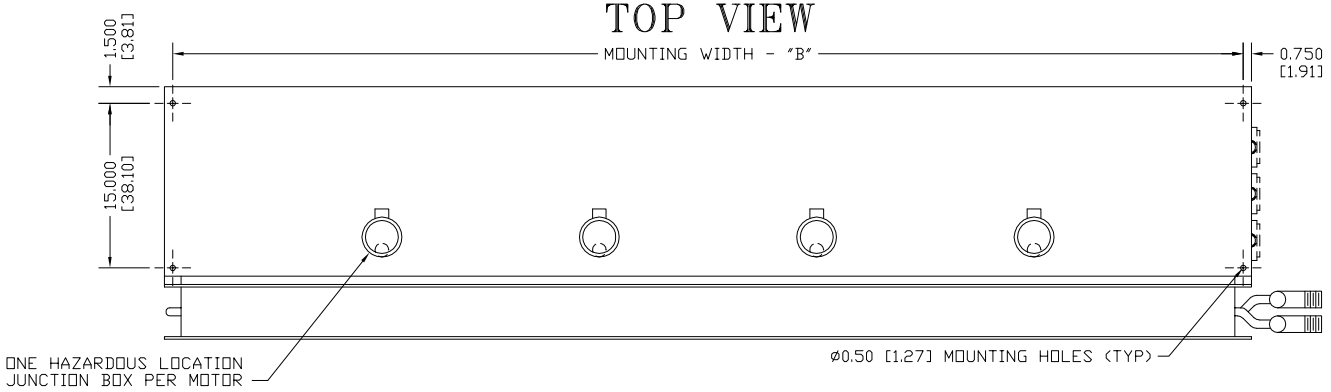
DWG. NO.	HLC12-WTR1
DATE	16JUNE14
BY	S. Beil
REPLACES	–
BY	–

TITLE: BERNER
MODEL HLC12 AIR CURTAIN
HAZARDOUS LOCATION HOT WATER HEATED SYSTEM

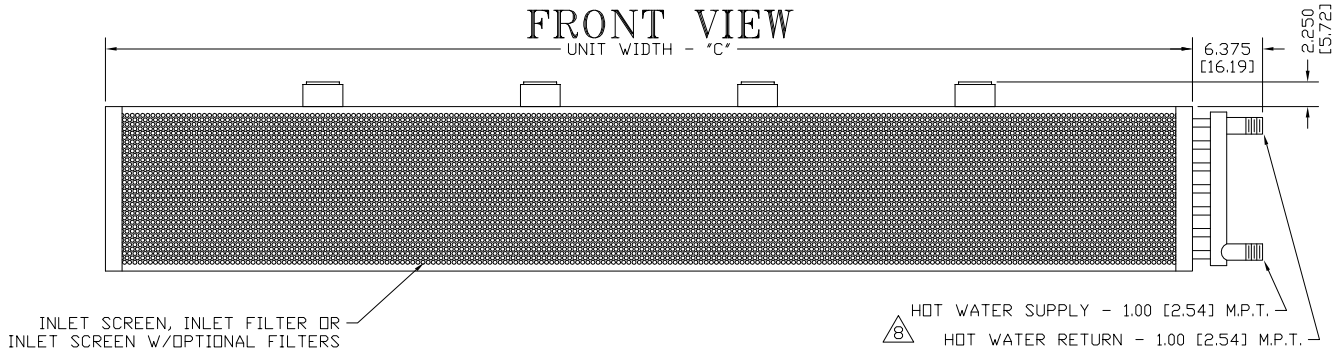
BERNER INTERNATIONAL CORP.
NEW CASTLE,PA.

HLC12
HOT WATER HEATED HAZARDOUS LOCATION

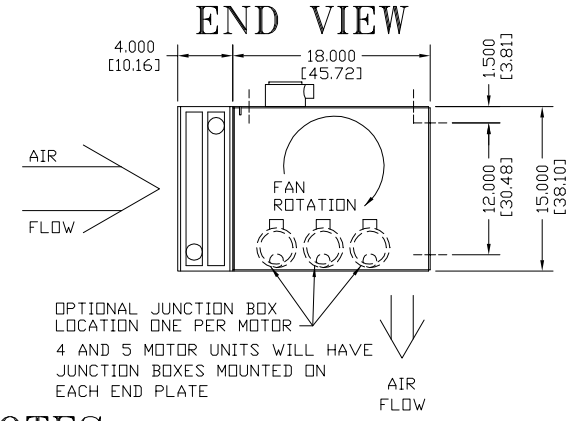
TOP VIEW



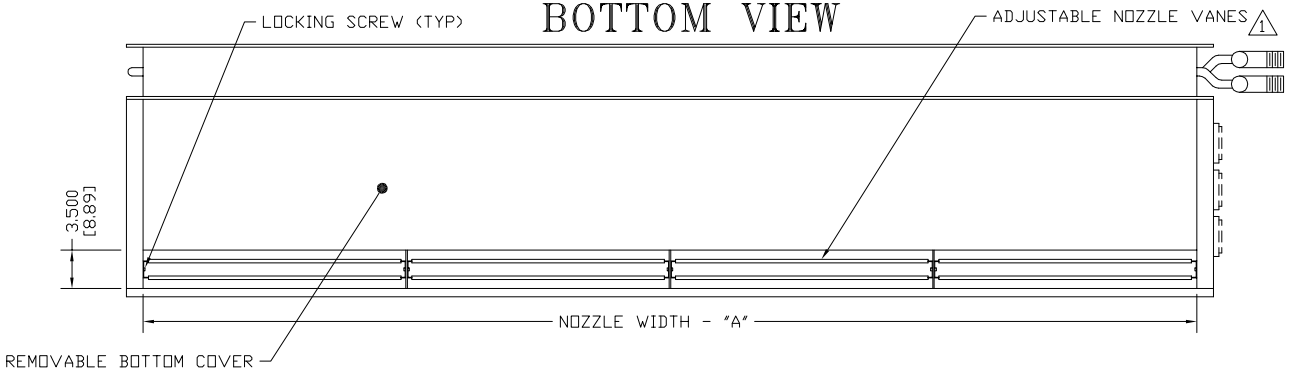
FRONT VIEW



END VIEW



BOTTOM VIEW



MODEL 6	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	UNIT WIDTH "C"
HLC12-4156W	156.00 [396.24]	157.50 [400.05]	159.00 [403.86]
HLC12-4168W	168.00 [426.72]	169.50 [430.53]	171.00 [434.34]
HLC12-4180W/5180W	180.00 [457.20]	181.50 [461.01]	183.00 [464.82]
HLC12-4192W/5192W	192.00 [487.68]	193.50 [491.49]	195.00 [495.30]

NOTES:

1. AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT OBSTRUCTED WHEN DEFLECTED 20° TO EITHER SIDE OF ℄.
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. REMOTE OPTIONAL CONTROL PANEL AVAILABLE: NEMA 4/12 FOR NON HAZARDOUS LOCATION MOUNTING; NEMA 7/9 FOR HAZARDOUS LOCATION MOUNTING. PLEASE SPECIFY.
8. COIL CONNECTIONS AS SHOWN, OPPOSITE AND SAME END CONNECTIONS AVAILABLE, PLEASE SPECIFY.
9. DIMENSIONS IN INCHES [CENTIMETERS].

PROJECT	
LOCATION	
ARCHITECT	
ENGINEER	
DWG. NO.	HLC12-WTR2
DATE	16JUNE14
BY	S. Beil
REPLACES	–
BY	–

TITLE: BERNER
MODEL HLC12 AIR CURTAIN
HAZARDOUS LOCATION HOT WATER HEATED SYSTEM

BERNER INTERNATIONAL CORP.
NEW CASTLE,PA.