



# 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**



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

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) 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
HLC12-1036W HLC12-1042W HLC12-1048W HLC12-1060W	1	6.5	15	1	3.5	15	1	3.5	15
HLC12-2060W HLC12-2072W HLC12-2078W HLC12-2084W HLC12-2096W HLC12-2108W HLC12-2120W	1	13.0	15	1	7.0	15	1	7.0	15
HLC12-3096W HLC12-3108W HLC12-3120W HLC12-3132W HLC12-3144W	1	19.5	25	1	10.5	15	1	10.5	15
HLC12-4144W HLC12-4156W HLC12-4168W HLC12-4180W HLC12-4192W	1	26.0	30	1	14.0	15	1	14.0	15
HLC12-5180W HLC12-5192W	1	32.5	35	1	17.5	20	1	17.5	20

*Berner reserves the right to alter specifications without prior notice.*



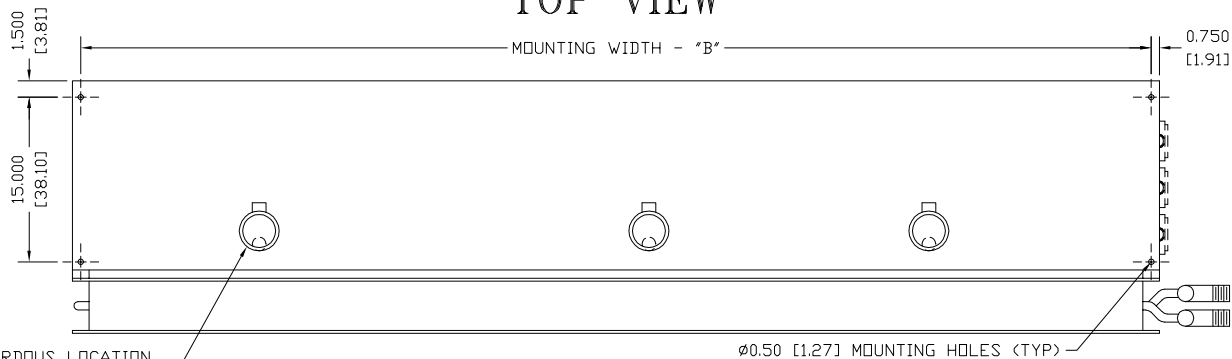
# HAZARDOUS LOCATION SERIES 12

## Hot Water Heated Air Curtain

### Electrical Performance Sheet

MODEL	208/3/60 (voltage code D) MOTOR AMP DRAW = 2.5 each			240/3/60 (voltage code E) MOTOR AMP DRAW = 2.4 each			480/3/60 (voltage code H) MOTOR AMP DRAW = 1.2 each			600/3/60 (voltage code I) MOTOR AMP DRAW = 0.8 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
HLC12-1036W HLC12-1042W HLC12-1048W HLC12-1060W	1	2.5	15	1	2.4	15	1	1.2	15	1	0.8	15
HLC12-2060W HLC12-2072W HLC12-2078W HLC12-2084W HLC12-2096W HLC12-2108W HLC12-2120W	1	5.0	15	1	4.8	15	1	2.4	15	1	1.6	15
HLC12-3096W HLC12-3108W HLC12-3120W HLC12-3132W HLC12-3144W	1	7.5	15	1	7.2	15	1	3.6	15	1	2.4	15
HLC12-4144W HLC12-4156W HLC12-4168W HLC12-4180W HLC12-4192W	1	10.0	15	1	9.6	15	1	4.8	15	1	3.2	15
HLC12-5180W HLC12-5192W	1	12.5	20	1	12.0	15	1	6.0	15	1	4.0	15

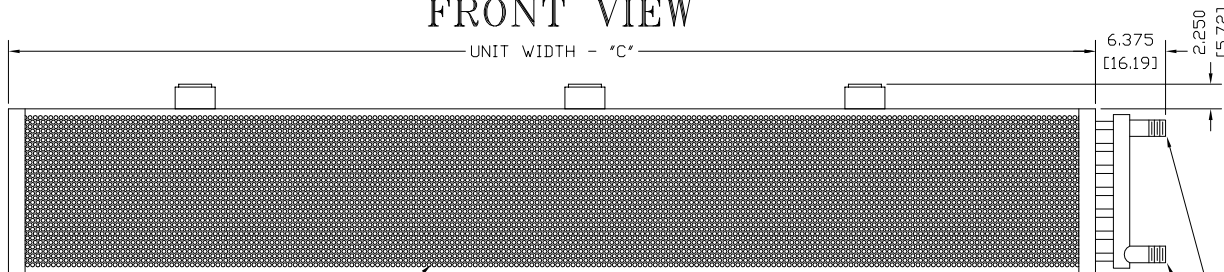
### TOP VIEW



ONE HAZARDOUS LOCATION JUNCTION BOX PER MOTOR

Ø0.50 [1.27] MOUNTING HOLES (TYP)

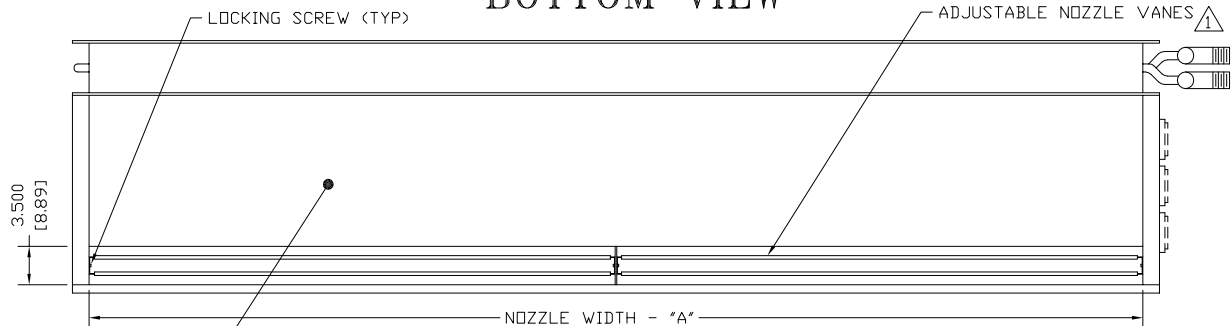
### FRONT VIEW



INLET SCREEN, INLET FILTER OR INLET SCREEN W/OPTIONAL FILTERS

HOT WATER SUPPLY - 1.00 [2.54] M.P.T.  
 △ HOT WATER RETURN - 1.00 [2.54] M.P.T.

### BOTTOM VIEW



LOCKING SCREW (TYP)

ADJUSTABLE NOZZLE VANES △

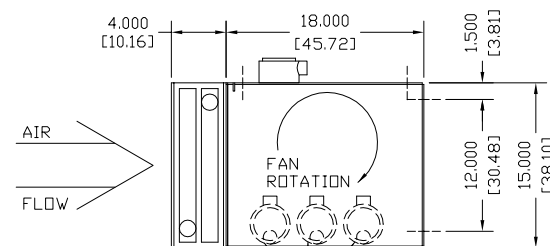
REMOVABLE BOTTOM COVER

MODEL	△	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]

# HLC12

## HOT WATER HEATED HAZARDOUS LOCATION

### END VIEW



OPTIONAL JUNCTION BOX LOCATION ONE PER MOTOR  
 4 MOTOR UNITS WILL HAVE JUNCTION BOXES MOUNTED ON EACH END PLATE

AIR FLOW

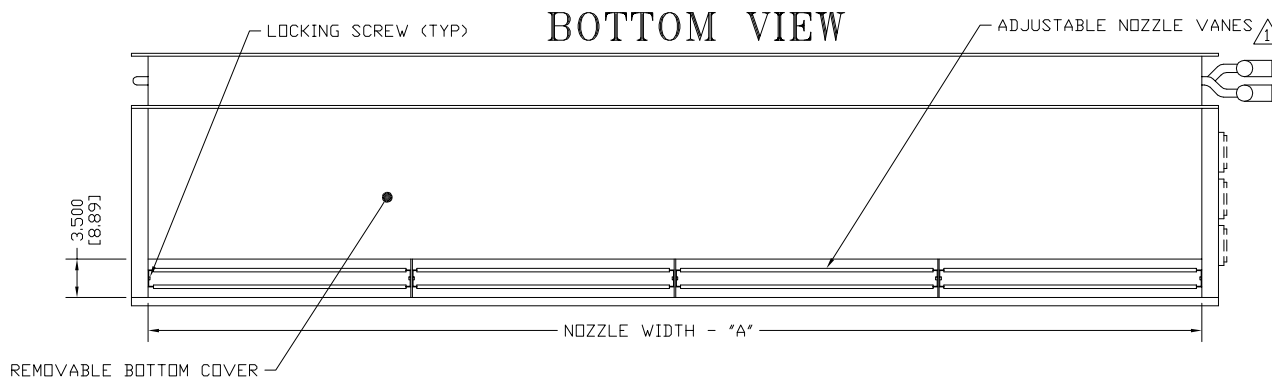
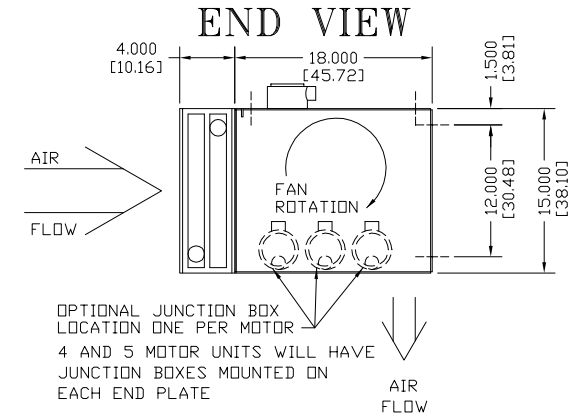
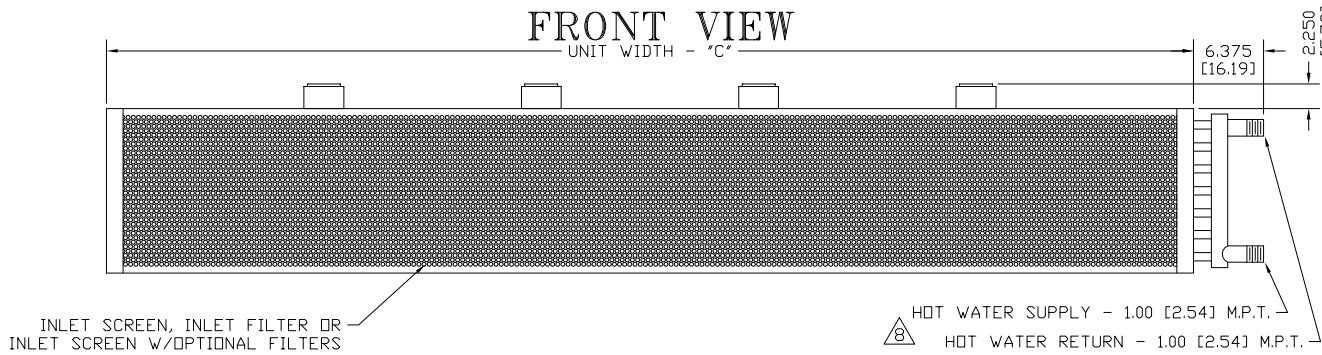
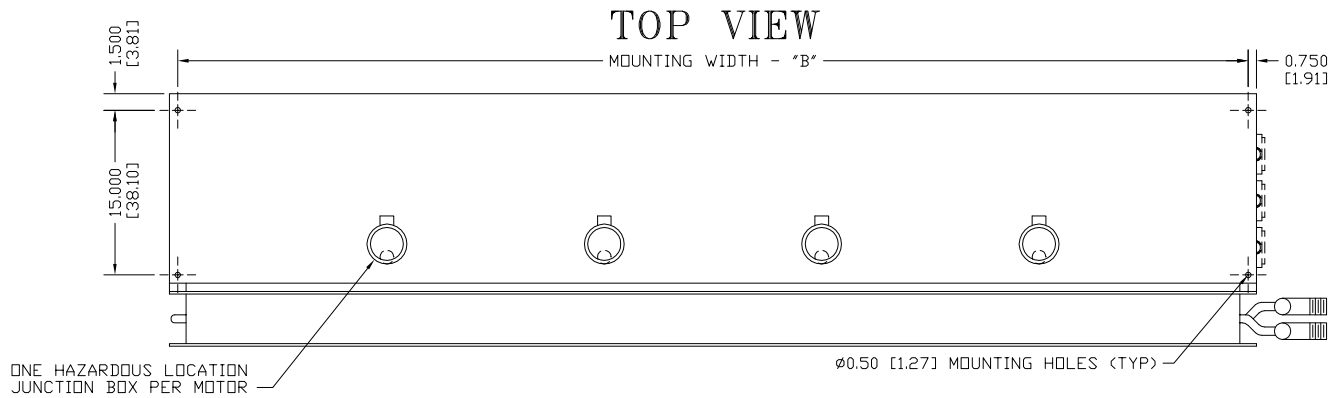
### NOTES:

- △ 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 "W" IN MODEL NUMBER DESIGNATES HOT WATER HEATED UNIT.
- △ REMOTE OPTIONAL CONTROL PANEL AVAILABLE: NEMA 4/12 FOR NON HAZARDOUS LOCATION MOUNTING; NEMA 7/9 FOR HAZARDOUS LOCATION MOUNTING. PLEASE SPECIFY.
- △ COIL CONNECTIONS AS SHOWN, OPPOSITE AND SAME END CONNECTIONS AVAILABLE, PLEASE SPECIFY.
- △ DIMENSIONS IN INCHES (CENTIMETERS).

PROJECT		
LOCATION		
ARCHITECT		
ENGINEER		
DWG. NO.	HLC12-WTR1	TITLE: <b>BERNER</b>
DATE	16 JUNE 14	MODEL HLC12 AIR CURTAIN
BY	S. Beil	HAZARDOUS LOCATION HOT WATER HEATED SYSTEM
REPLACES	-	
BY	-	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.

# HLC12

## HOT WATER HEATED HAZARDOUS LOCATION



MODEL	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 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 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	TITLE: <b>BERNER</b>
DATE	16 JUNE 14	MODEL HLC12 AIR CURTAIN
BY	S. Beil	HAZARDOUS LOCATION HOT WATER HEATED SYSTEM
REPLACES	-	
BY	-	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.