



HAZARDOUS LOCATION SERIES 16

Hot Water Heated Air Curtain

Data Sheet

For Door Heights To 16' (environmental separation)

STANDARD CONSTRUCTION

- Constructed for Class I, Division 1 & 2, Groups C & D
- Constructed for Class II, Division 1 & 2, Groups F & G
- Explosion proof single speed motor(s) temperature code T3C
- Interior and exterior gray zinc epoxy powder coated aluminized steel cabinet and screen
- Split cabinet construction for fan assembly removal
- External mount explosion proof junction box (One per motor)
- Aluminum impellers in zinc epoxy powder coated galvanized steel housing
- Fiberglass air diverters, factory assembled to the outlet of each blower housing
- Top Mounting only
- 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)
HLC16-1060W	60.00	5,145	3,302	5,359	85%	2.80	1 @ 3	227.1	180° / 161°	24.0	2.3	39°	482
HLC16-1072W	72.00	5,005	2,944	6,256	91%	2.90	1 @ 3	267.2	180° / 159°	26.0	2.7	39°	535
HLC16-1084W	84.00	4,644	2,732	6,772	89%	3.00	1 @ 3	292.3	180° / 156°	25.0	2.6	39°	588
HLC16-1096W	96.00	5,352	3,148	8,920	87%	4.10	1 @ 5	378.2	180° / 158°	36.0	5.4	39°	729
HLC16-1108W	108.00	5,236	3,080	9,817	86%	4.20	1 @ 5	416.7	180° / 157°	37.0	5.8	39°	862
HLC16-1120W	117.00	6,012	3,627	12,526	87%	4.80	1 @ 7.5	506.5	180° / 158°	47.0	9.4	37°	1,065
HLC16-1132W	132.00	5,602	3,296	12,839	86%	4.90	1 @ 7.5	536.3	180° / 157°	47.0	9.6	38°	1,134
HLC16-1144W	144.00	5,225	3,074	13,062	85%	5.40	1 @ 7.5	564.5	180° / 157°	50.0	11.1	39°	1,187
HLC16-1156W	156.00	4,943	2,908	13,388	84%	5.50	1 @ 7.5	592.1	180° / 157°	52.0	12.2	40°	1,250
HLC16-2168W	168.00	5,203	3,061	15,176	89%	7.00	1 @ 5, 1 @ 3	664.6	180° / 157°	60.0	16.4	40°	1,224
HLC16-2180W	180.00	5,143	3,026	16,073	87%	7.10	1 @ 5, 1 @ 3	705.4	180° / 157°	62.0	17.8	40°	1,305
HLC16-2192W	192.00	5,352	3,148	17,840	87%	8.20	2 @ 5	767.6	180° / 156°	65.0	19.8	39°	1,411

NOTES:

1. Performance data based on AMCA licensed data from unheated IDC16 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.

See sheet EP-926 for amp draws/total load requirements.

MODEL NUMBER CONFIGURATION

HLC16-1 060 W D-F

Series	# of Motors	Opening Width	Heat	Voltage	Intake
HLC16	1, 2	060" - 192"	W=Hot Water Heated	D=208/3/60 E=240/3/60 H=480/3/60 I=600/3/60	T=Top F=Front

Sound level measured 10' (3m) from the unit in free field:
3, 5, 7½, (5 + 3) & (5 + 5) hp motor(s):
68 dBA, 70 dBA, 71 dBA, 72 dBA & 73 dBA

Berner reserves the right to alter specifications without prior notice.

www.berner.com Berner International 800.245-4455
111 Progress Ave. / New Castle / PA / 16101 / USA

DS-926
July, 2015



HAZARDOUS LOCATION SERIES 16

Hot Water Heated Air Curtain Electrical Performance Sheet

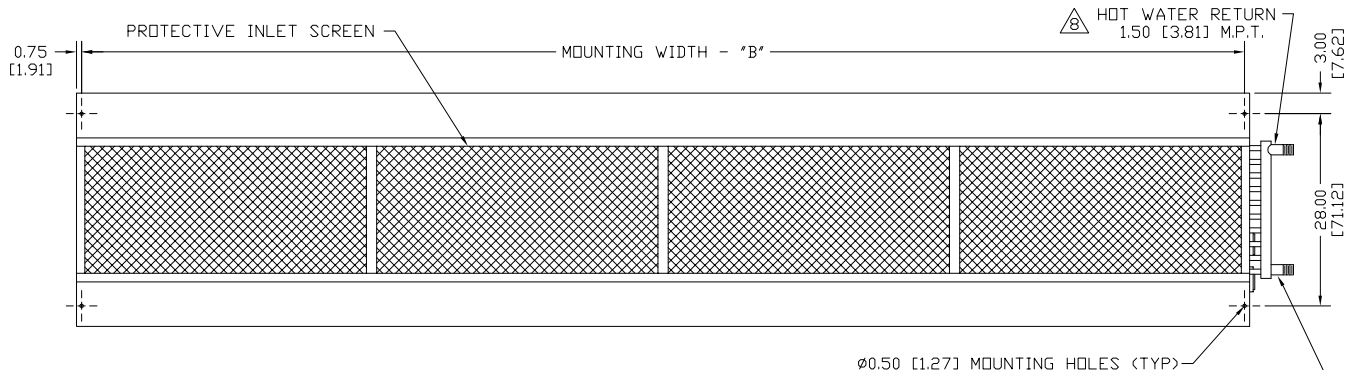
MODEL	Qty @ HP	# CKTS	208/3/60 (voltage code D) TOTAL MOTOR AMP DRAW		# CKTS	240/3/60 (voltage code E) TOTAL MOTOR AMP DRAW		# CKTS	480/3/60 (voltage code H) TOTAL MOTOR AMP DRAW		# CKTS	600/3/60 (voltage code I) TOTAL MOTOR AMP DRAW	
			AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT		AMPS PER CIRCUIT	BREAKER RATING PER CIRCUIT
HLC16-1060W HLC16-1072W HLC16-1084W	1 @ 3	1	10.2	25	1	9.6	20	1	4.8	15	1	3.5	15
HLC16-1096W HLC16-1108W	1 @ 5	1	17.0	35	1	15.8	35	1	7.9	20	1	5.9	15
HLC16-1120W HLC16-1132W HLC16-1144W HLC16-1156W	1 @ 7.5	1	23.0	50	1	21.4	45	1	10.7	25	1	8.5	20
HLC16-2168W HLC16-2180W	1 @ 3 1 @ 5	1	27.2	50	1	25.4	50	1	12.7	25	1	9.4	20
HLC16-2192W	2 @ 5	1	34.0	60	1	31.6	60	1	15.8	25	1	11.8	20

Berner reserves the right to alter specifications without prior notice.

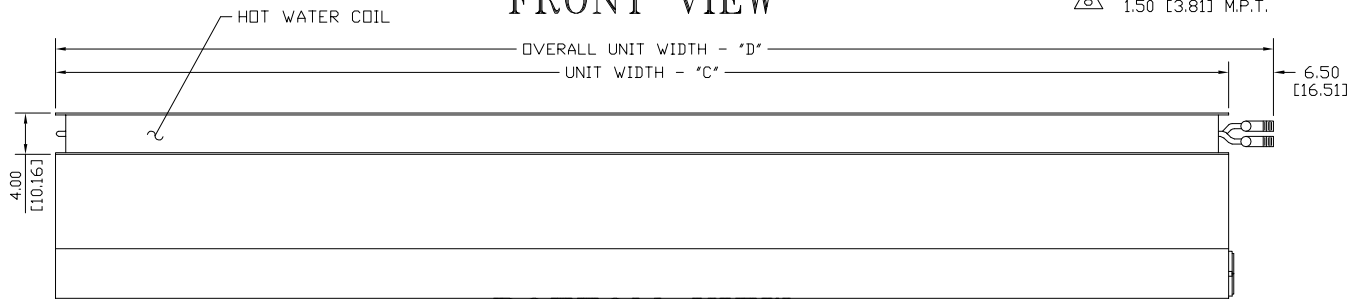
www.berner.com Berner International 800.245-4455
111 Progress Ave. / New Castle / PA / 16101 / USA

EP-926
May, 2023

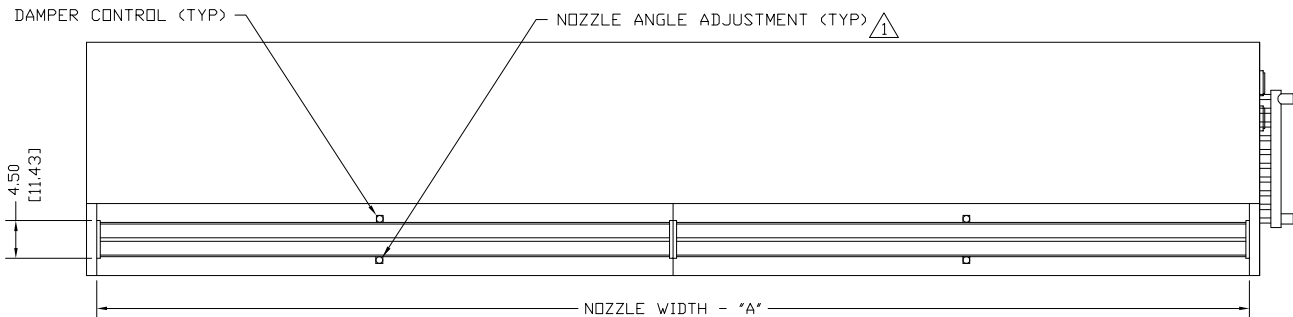
TOP VIEW



FRONT VIEW



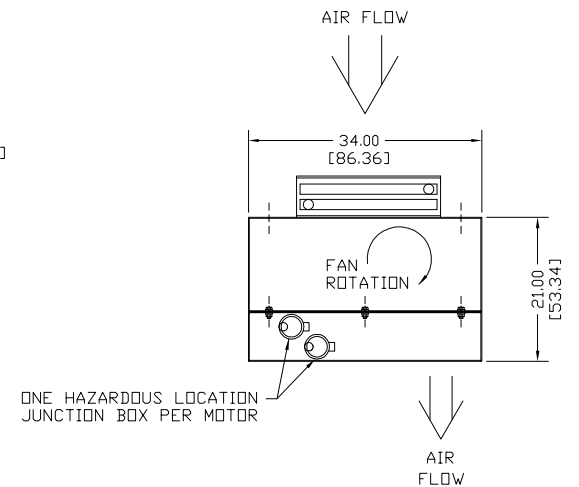
BOTTOM VIEW



MODEL	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	UNIT WIDTH "C"	OVERALL WIDTH "D"
HLC16-1060W-T	60.00 [152.40]	61.50 [156.21]	63.00 [160.02]	69.50 [176.53]
HLC16-1072W-T	72.00 [182.88]	73.50 [186.69]	75.00 [190.50]	81.50 [207.01]
HLC16-1084W-T	84.00 [213.36]	85.50 [217.17]	87.00 [220.98]	93.50 [237.49]
HLC16-1096W-T	96.00 [243.84]	97.50 [247.65]	99.00 [251.46]	105.50 [267.97]
HLC16-1108W-T	108.00 [274.32]	109.50 [278.13]	111.00 [281.94]	117.50 [298.45]
HLC16-1120W-T	117.00 [297.18]	118.50 [300.99]	120.00 [304.80]	126.50 [321.31]
HLC16-1132W-T	132.00 [335.28]	133.50 [339.09]	135.00 [342.90]	141.50 [359.41]
HLC16-1144W-T	144.00 [365.76]	145.50 [369.57]	147.00 [373.38]	153.50 [389.89]
HLC16-1156W-T	156.00 [396.24]	157.50 [400.05]	159.00 [403.86]	165.50 [420.37]
HLC16-2168W-T	168.00 [426.72]	169.50 [430.53]	171.00 [434.34]	177.50 [450.85]
HLC16-2180W-T	180.00 [457.20]	181.50 [461.01]	183.00 [464.82]	189.50 [481.33]
HLC16-2192W-T	192.00 [487.68]	193.50 [491.49]	195.00 [495.30]	201.50 [511.81]

HLC16 HOT WATER HEATED TOP INTAKE SAME END SUP./RET. HAZARDOUS LOCATION

END VIEW

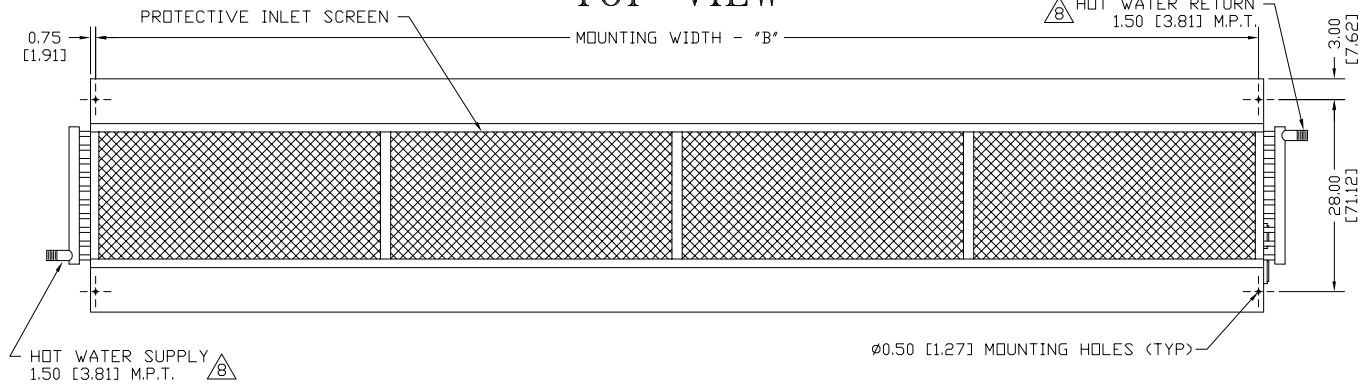


NOTES:

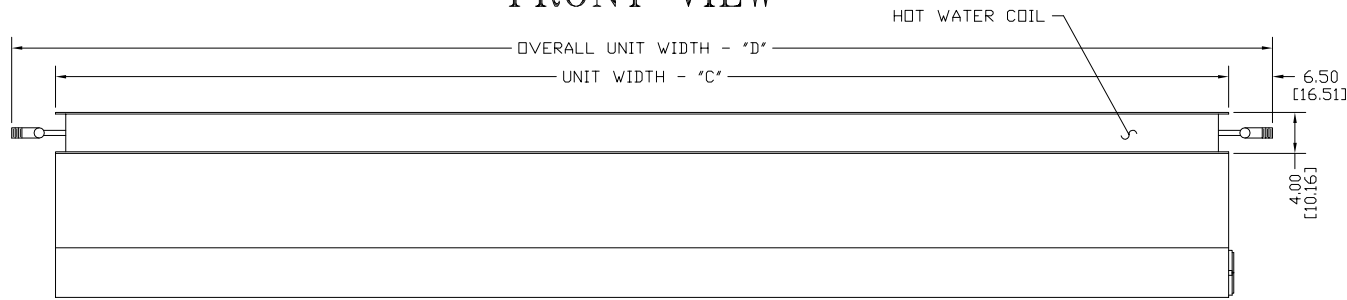
- ⚠ AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT OBSTRUCTED WHEN DEFLECTED 20° TO EITHER SIDE OF \square .
- ⚠ ELECTRICAL CONNECTIONS TO BE FLEXIBLE.
- ⚠ FIELD VERIFY DIMENSIONS.
- ⚠ ANCHORS TO SUPPORTING STRUCTURE BY OTHERS.
- ⚠ ADEQUACY OF SUPPORTING STRUCTURE IS TO BE VERIFIED BY A PROFESSIONAL STRUCTURAL ENGINEER.
- ⚠ LETTER "W" IN MODEL NUMBER DESIGNATES HOT WATER HEATED UNIT, THE "T" IS FOR TOP INTAKE.
- ⚠ 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.	HLC16-WTR1	TITLE: BERNER
DATE	17 JUNE 14	MODEL HLC16 AIR CURTAIN
BY	S. Beil	HAZARDOUS LOCATION TOP INTAKE HOT WATER HEATED SYSTEM
REPLACES	-	
BY	-	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.

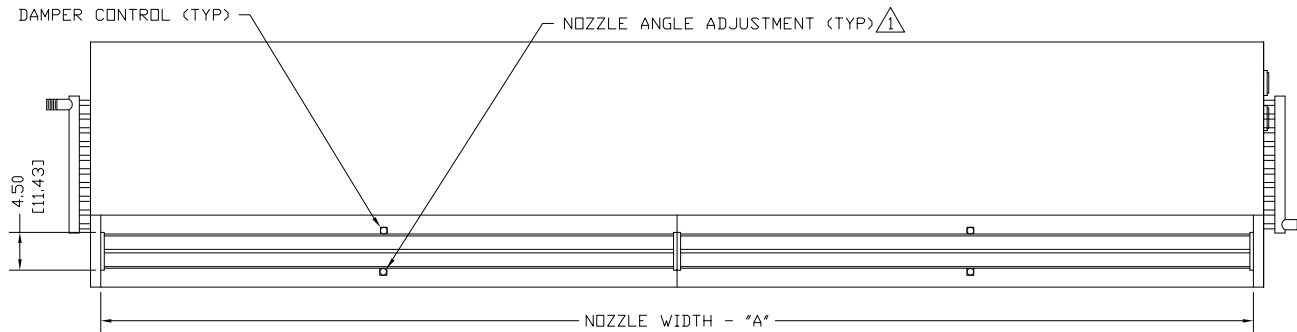
TOP VIEW



FRONT VIEW



BOTTOM VIEW



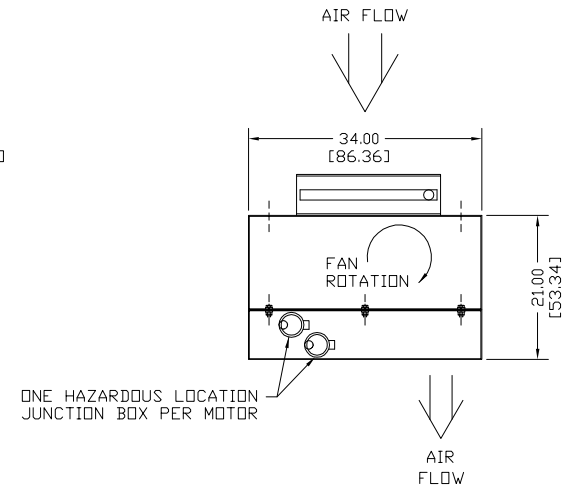
MODEL	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	UNIT WIDTH "C"	OVERALL WIDTH "D"
HLC16-1060W-T	60.00 [152.40]	61.50 [156.21]	63.00 [160.02]	76.00 [193.04]
HLC16-1072W-T	72.00 [182.88]	73.50 [186.69]	75.00 [190.50]	88.00 [223.52]
HLC16-1084W-T	84.00 [213.36]	85.50 [217.17]	87.00 [220.98]	100.00 [254.00]
HLC16-1096W-T	96.00 [243.84]	97.50 [247.65]	99.00 [251.46]	112.00 [284.48]
HLC16-1108W-T	108.00 [274.32]	109.50 [278.13]	111.00 [281.94]	124.00 [314.96]
HLC16-1120W-T	117.00 [297.18]	118.50 [300.99]	120.00 [304.80]	133.00 [337.82]
HLC16-1132W-T	132.00 [335.28]	133.50 [339.09]	135.00 [342.90]	148.00 [375.92]
HLC16-1144W-T	144.00 [365.76]	145.50 [369.57]	147.00 [373.38]	160.00 [406.40]
HLC16-1156W-T	156.00 [396.24]	157.50 [400.05]	159.00 [403.86]	172.00 [436.88]
HLC16-2168W-T	168.00 [426.72]	169.50 [430.53]	171.00 [434.34]	184.00 [467.36]
HLC16-2180W-T	180.00 [457.20]	181.50 [461.01]	183.00 [464.82]	196.00 [497.84]
HLC16-2192W-T	192.00 [487.68]	193.50 [491.49]	195.00 [495.30]	208.00 [528.32]

HLC16

HOT WATER HEATED TOP INTAKE

OPP. END SUP./RET. HAZARDOUS LOCATION

END VIEW

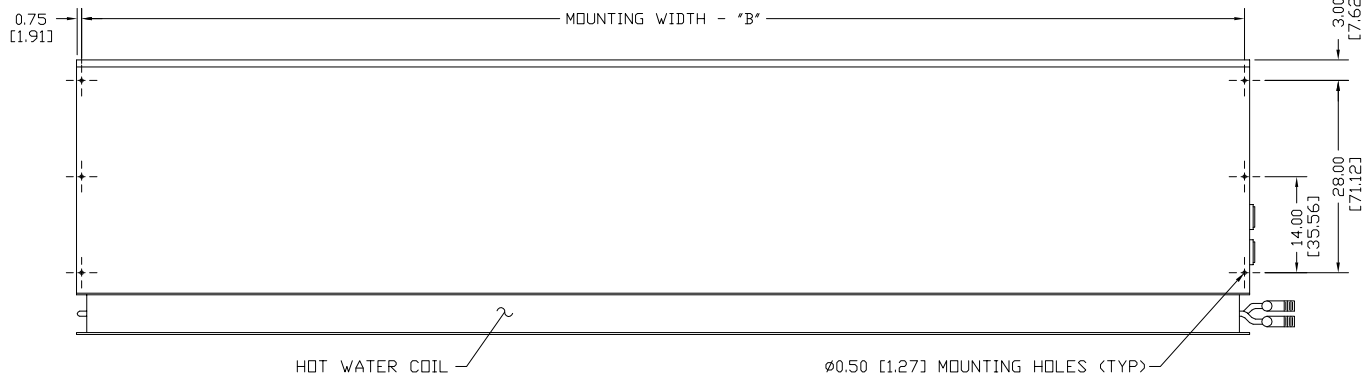


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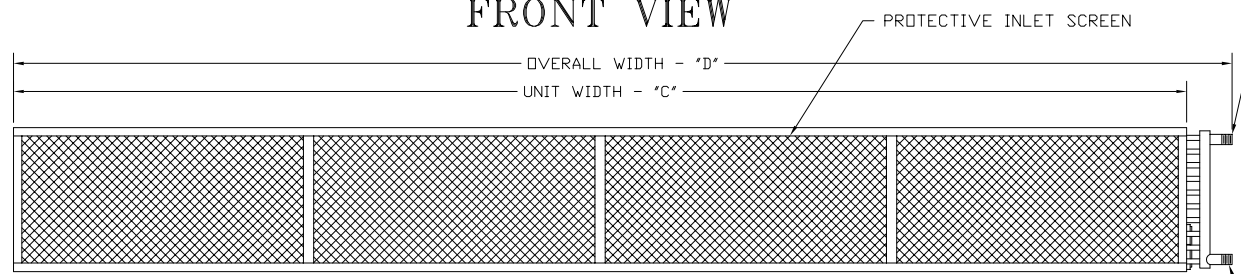
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- ⚠ COIL CONNECTIONS AS SHOWN, OPPOSITE AND SAME END CONNECTIONS AVAILABLE, PLEASE SPECIFY.
- ⚠ DIMENSIONS IN INCHES [CENTIMETERS].

PROJECT		
LOCATION		
ARCHITECT		
ENGINEER		
DWG. NO.	HLC16-WTR2	TITLE: BERNER
DATE	17 JUNE 14	MODEL HLC16 AIR CURTAIN
BY	S. Beil	HAZARDOUS LOCATION TOP INTAKE HOT WATER HEATED SYSTEM
REPLACES	-	
BY	-	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.

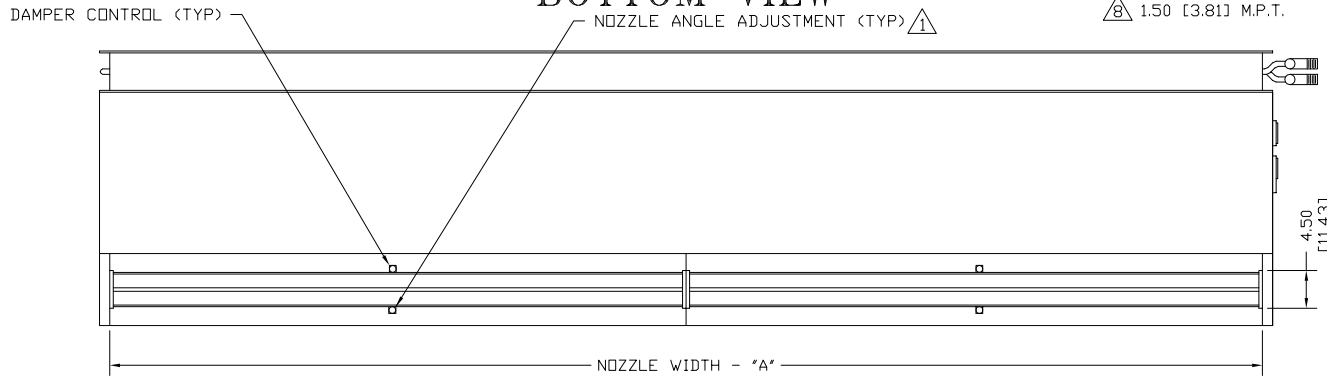
TOP VIEW



FRONT VIEW



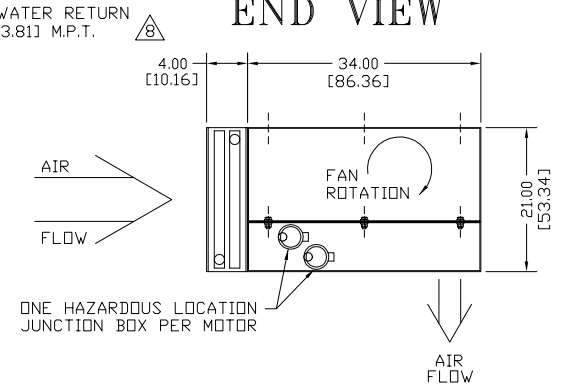
BOTTOM VIEW



HLC16

HOT WATER HEATED FRONT INTAKE SAME END SUP./RET. HAZARDOUS LOCATION

END VIEW



MODEL	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	UNIT WIDTH "C"	OVERALL WIDTH "D"
HLC16-1060W-F	60.00 [152.40]	61.50 [156.21]	63.00 [160.02]	69.50 [176.53]
HLC16-1072W-F	72.00 [182.88]	73.50 [186.69]	75.00 [190.50]	81.50 [207.01]
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HLC16-1108W-F	108.00 [274.32]	109.50 [278.13]	111.00 [281.94]	117.50 [298.45]
HLC16-1120W-F	117.00 [297.18]	118.50 [300.99]	120.00 [304.80]	126.50 [321.31]
HLC16-1132W-F	132.00 [335.28]	133.50 [339.09]	135.00 [342.90]	141.50 [359.41]
HLC16-1144W-F	144.00 [365.76]	145.50 [369.57]	147.00 [373.38]	153.50 [389.89]
HLC16-1156W-F	156.00 [396.24]	157.50 [400.05]	159.00 [403.86]	165.50 [420.37]
HLC16-2168W-F	168.00 [426.72]	169.50 [430.53]	171.00 [434.34]	177.50 [450.85]
HLC16-2180W-F	180.00 [457.20]	181.50 [461.01]	183.00 [464.82]	189.50 [481.33]
HLC16-2192W-F	192.00 [487.68]	193.50 [491.49]	195.00 [495.30]	201.50 [511.81]

NOTES:

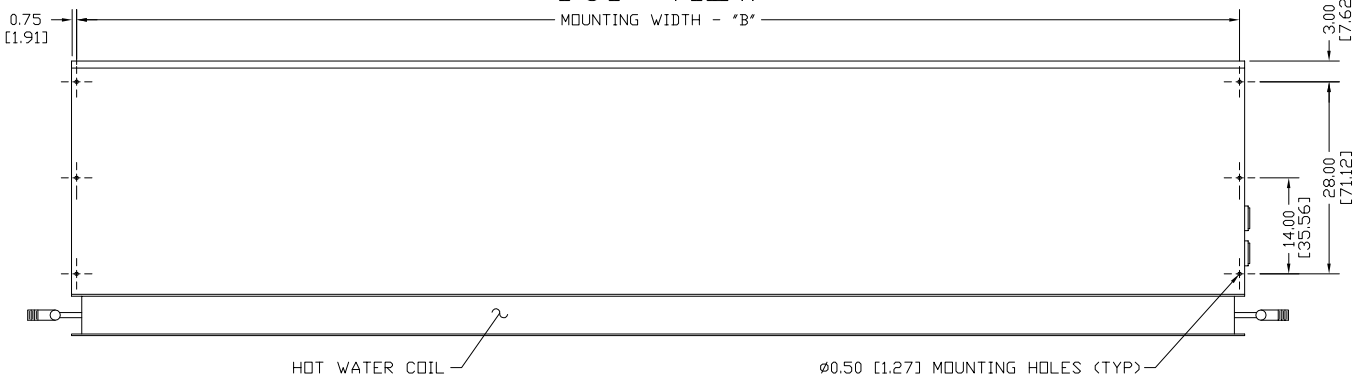
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- ⚠ ELECTRICAL CONNECTIONS TO BE FLEXIBLE.
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- ⚠ DIMENSIONS IN INCHES [CENTIMETERS].

PROJECT		
LOCATION		
ARCHITECT		
ENGINEER		
DWG. NO.	HLC16-WTR3	TITLE: BERNER
DATE	17JUNE14	MODEL HLC16 AIR CURTAIN
BY	S. Beil	HAZARDOUS LOCATION FRONT INTAKE HOT WATER HEATED SYSTEM
REPLACES	-	
BY	-	BERNER INTERNATIONAL CORP. NEW CASTLE, PA.

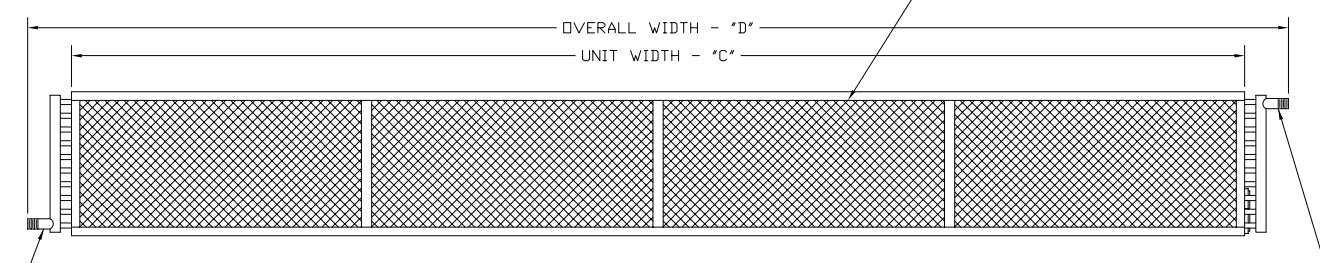
HLC 16

HOT WATER HEATED
FRONT INTAKE
OPP. END SUP./RET.
HAZARDOUS LOCATION

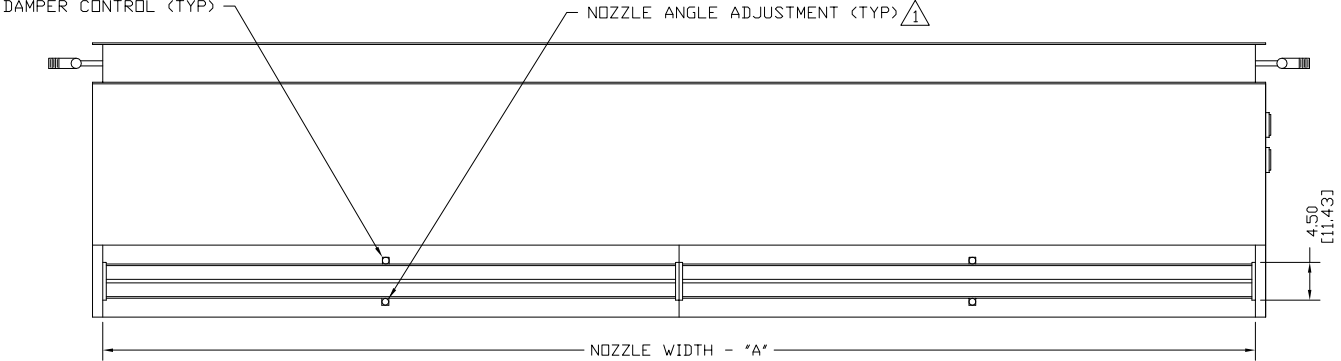
TOP VIEW



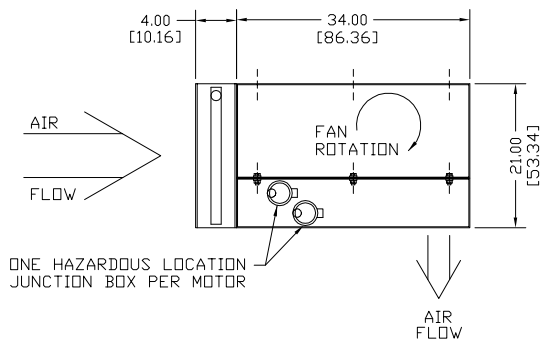
FRONT VIEW



BOTTOM VIEW



END VIEW



MODEL	NOZZLE WIDTH "A"	MOUNTING WIDTH "B"	UNIT WIDTH "C"	OVERALL WIDTH "D"
HLC16-1060W-F	60.00 [152.40]	61.50 [156.21]	63.00 [160.02]	76.00 [193.04]
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NOTES:

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- ⚠ DIMENSIONS IN INCHES [CENTIMETERS].

PROJECT		
LOCATION		
ARCHITECT		
ENGINEER		
DWG. NO.	HLC16-WTR4	TITLE: BERNER
DATE	17JUNE14	MODEL HLC16 AIR CURTAIN
BY	S. Beil	HAZARDOUS LOCATION FRONT INTAKE HOT WATER HEATED SYSTEM
REPLACES	-	
BY	-	
BERNER INTERNATIONAL CORP. NEW CASTLE, PA.		