

Clark & Enersen | 2020 Baltimore Avenue Suite 300 Kansas City MO 64108-1914 United States

PROJECT: UAMS Biomed Bldg Viv Reno 769-017-22 DATE SENT: 3/31/2025  
 SUBJECT: 237313-01 - AH - 2-5A & B Submittal ID: 237313-01.1  
 TYPE: Submittal TRANSMITTAL ID: 00212  
 PURPOSE: Approved as Noted VIA: Email  
 SPEC SECTION: 23 73 13

FROM

NAME	COMPANY	EMAIL	PHONE
Lance Nozik	Clark & Enersen	Lance.Nozik@clarkenersen.com	816.474.8237

TO

NAME	COMPANY	EMAIL	PHONE
Tamara Barron	UAMS	TBarron@uams.edu	

REMARKS:

CONTENTS

QUANTITY: 1 DATED: 3/31/2025 NUMBER:

DESCRIPTION:

Submittal ID 237313-01.1 - Submittal ID 237313-01.1 - 237313-01 - AH - 2-5A & B\_Cx Reviewed.pdf

ACTION:

REMARKS:

## Bernhard Commissioning Submittal Review

Project Name

UAMS

# Bernhard

Bernhard TME, LLC • Engineering Division

Reviewed -  
Comments

Not in Scope

Reviewed - No  
Comments

For Information Only

BY mpool

DATE 3/25/2025

SUBMITTAL # 237313

SPEC

This submittal has been reviewed by the Commissioning Provider for general conformance related to the commissioning requirements in the contract documents and Owner's Project Requirements document. This review is not intended to verify overall equipment compliance of the design intent and no design direction shall be inferred or implied. The Designer of Record shall verify overall compliance of the design intent according to the contract documents.

### CLARK & ENERSEN:

1. PLANS UPDATED PER ASI 006 WITH DAIKIN AHU MODELS AND LOCATIONS REFLECTING THIS SUBMITTAL.
2. COIL CONNECTIONS HAVE BEEN COORDINATED WITH AHU MANUF. AND UPDATED TO REFLECT ASI 006.

REVIEWED  REVIEWED AND NOTED  
 REVISE AND RESUBMIT  REJECTED

Corrections or comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for confirming and correlating all quantities and dimensions; selecting fabrication process and techniques of construction; coordinating their work with that of all other trades; and performing their work in a safe and satisfactory manner.

CLARK & ENERSEN

By Chris Sharp Date 3/31/2025



**CDI CONTRACTORS** CDI Contractors, LLC  
 3000 Cantrell Road  
 Little Rock AR 72202

**Transmittal**  
**No** 2025.03.19-1

**PROJECT:** UAMS- CAMID

**DATE:** Mar 19, 2025

**To:** UAMS  
 4301 W MARKHAM ST. SLOT 545  
 LITTLE ROCK AR 72205  
 US

**RE:** 237313 AHU 5a 5b 2

**ATTN:** TAMARA BARRON

**JOB:** 240147

WE ARE SENDING:		SUBMITTED FOR:		ACTION TAKEN:	
<input checked="" type="checkbox"/>	Shop Drawings	<input checked="" type="checkbox"/>	Approval		Approved as Submitted
	Letter		Your Use		Approved as Noted
	Prints		As Requested		Returned After Loan
	Change Order		Review and Comment		Resubmit
	Plans				Submit
	Samples	<b>SENT VIA:</b>			Returned
	Specifications	<input type="checkbox"/>	Attached	<input type="checkbox"/>	Separate Cover
	Other: Product Data				Due
<input checked="" type="checkbox"/>	Submittal:				Other:

Line	Item	Package	Code	Rev.	QTY	Date	Description	Status
1	Submittal		237313-01	2		Mar 19, 2025	PD:AH - 2	Submitted
2	Submittal		237313-02	1		Mar 19, 2025	PD:AHU - 5A	Submitted
3	Submittal		237313-03	2		Mar 19, 2025	PD:AHU - 5B	Revise and Resubmit

**REMARKS:**

**CC:**

**Signed:** \_\_\_\_\_  
 Scott Treadway



**CDI CONTRACTORS, LLC**

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APPROVED AS NOTED       REJECTED  
 APPROVED                       REVISE

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**BY** treadws                      **DATE** 3/19/2025  
**SUBMITTAL#** 237313-01      **SPEC** 237313

This submittal has been reviewed for compliance with the contract documents. Approval does not relieve the subcontractor/supplier of the responsibility for conformance to the quality standards as set forth in the contract document, nor does it relieve the responsibility for field verification of all conditions relating to this contract.

*Quality People. Building Solutions.*

Comfort Systems USA (Arkansas), Inc.  
P.O. Box 16620  
Little Rock, AR 72231  
Phone 501-834-3320  
Fax 501-834-5416

**Date:** 3/17/2025  
**Return Request:** 3/27/2025  
**Project:** UAMS (CAMID)  
**Supplier:** Harrison Energy  
**Manufacturer:** Daikin  
**Submittal:** Air Handling Units Re-Submittal #1  
**Submittal Number:** 23 73 13-01  
**Drawing # and Installation:** Mechanical Drawings

**ARCHITECT**

Clark Kenersen  
2020 Baltimore Avenue, Suite 300  
Kansas City, MO 64108  
816-474-8237

**ENGINEER**

Clark Kenersen  
2020 Baltimore Avenue, Suite 300  
Kansas City, MO 64108  
816-474-8237

**GENERAL CONTRACTOR**

CDI Contractirs  
3000 Cantrell Rd.  
Little Rock, AR 72202  
501-666-4300

**MECHANICAL SUBCONTRACTOR**

Comfort Systems USA (Arkansas), Inc.  
9924 Landers Rd.  
N. Little Rock, AR 72117  
501-834-3320

Notes:

**CSUSA PROJECT NO.**

**22-6069**

[sean@comfortar.com](mailto:sean@comfortar.com)

9924 Landers Rd.  
No. Little Rock, AR 72117



# Submittal

**Prepared For:**  
Clark & Enerson

**Date:**  
March 12, 2025

**Sold To:**  
Comfort Systems USA

**Job Name:**  
UAMS CAMID

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Harrison Energy Partners is pleased to provide the enclosed submittal for your review and approval.

**Qty. Product Summary**  
2 Daikin Air Handling Units

Josh Robinson | Sales Engineer  
Harrison Energy Partners  
1501 Westpark Drive, Suite 9  
Little Rock, AR 72204-2457  
Ph. 501-539-0633

*The attached information describes the equipment we propose to furnish for this project, and is submitted for your approval.*

## Revisions:

1. Adjusted AHU performance to 300' elevation.
  2. Factory isolation dampers provided on inlet of AHUs.
  3. Heat recovery coils reselected with 0.035" tubes.
  4. Revised filter pressure drops to values shown on the equipment schedule.
  5. Field installed UV radiometric monitor to view UV light status.
  6. AHU-2 meets the external static pressure required.
  7. AHU-5 meets the external static pressure required.
  8. AHU-5 coil connections have been revised.
  9. Door swings on the positive pressure sections have been changed to inward opening.
  10. Revised motor selection on AHU-2 to achieve 100% redundancy.
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### Indoor Air Handling Units

Tag	Qty.	Description	Model Number
AHU-2	1	Indoor Air Handling Unit	Daikin CAH064
AHU-5	1	Indoor Air Handling Unit	Daikin CAH011

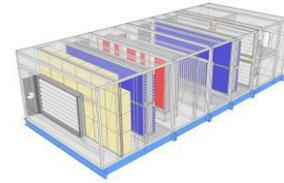
- Double wall construction with 2" R13 insulation
- ASHRAE leakage class 6
- Access sections with view ports and lights as required
- Stainless steel drain pans in humidifier and cooling coil sections
- 8" base rail
- Galvanized steel interior liners
- Combination filter section
- Heat recovery coil section
- Steam IFB coil section
- Humidifier section
- Chilled water coil section with UV lights
- Supply fan section
  - NOTE: AHU-5 is selected as a stacked unit. Software limitations only allow us to select one section with a supply fan, therefore one of the supply fan sections is labeled "return/exhaust." Both fan sections in this unit will be utilized as supply fans.



## SUBMITTAL DATA

Job Name	UAMS CAMID
For	
Sold To	
Prepared For	
Customer PO#	
Prepared By	Jake Skinner
Date	3/12/2025

Job Information		Technical Data Sheet	
Job Name	UAMS CAMID		
Date	March 17 2025		
Submitted By	JS		
Software Version	13.61		
Unit Tag	AHU-2		



Confirm new TSP is acceptable

## Unit Overview

Model Number	Supply					
	Air Volume cfm	Static Pressure		External Dimensions		
		External inWc	Total inWc	Height in	Width in	Length in
CAH064GDHM	26000	4.25	8.68	82*	138*	328

*\*Not including base rails, coil connectors, drain connectors and control boxes.*

## Unit

<b>Model Number:</b>	CAH064GDHM						
<b>Approval:</b>	ETL Listed / ETL Listed to Canadian Safety Standards (ETL Label / ETLc Label)						
<b>Construction:</b>	High pressure low leakage construction						
<b>Outer Panel:</b>	24 gauge G90 Galvanized Steel (unpainted)						
<b>Liner:</b>	24 gauge Galvanized Steel (unless noted per section)						
<b>Insulation:</b>	R-13 Injected Foam						
<b>Unit Configuration:</b>	Inline horizontal			<b>Drive (Handling) Location:</b>	Left		
<b>Base:</b>	8" formed channel			<b>Wall Thickness:</b>	2 in		
<b>Altitude:</b>	300 ft			<b>Parts Warranty:</b>	Standard One Year		

Plenum Section	Component: 1	Length: 22 in	Shipping Section: 1
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Air Pressure Drop							
0.14 inWc							

Custom Dampers							
Custom Damper	Damper Type	Location	Size (Width x Height)		Material	Blade Action	Rainhood w/Screen
			Overall	Opening			
1	UltraSeal Low Leak	End	80 in x 46 in	70 in x 42 in	Galv. Steel	Parallel	None

Door				
Location	Width	Opening	Window Type	Light
Drive side	18 in	Outward	Round	LED marine light kit and switch only

Combination Filter		Component: 2			Length: 22 in		Shipping Section: 1			
Access		Face Velocity			Face Area		Air Volume			
Side		390 ft/min			66.6 ft <sup>2</sup>		26000 cfm			
Portion	Type	Efficiency	Air Pressure Drop				Number of Filters	Height	Width	Depth
			Clean Air	Mean Air	Dirty Air	User Spec				
Pre-Filter	Pleated	MERV 8	0.17 inWc	0.58 inWc	1.00 inWc	1.00 inWc	4	24 in	24 in	2 in
							2	24 in	20 in	2 in
							8	20 in	24 in	2 in
							4	20 in	20 in	2 in
							5	12 in	24 in	2 in
Filter	Varicel VXL cartridge	MERV 15	0.25 inWc	1.13 inWc	2.00 inWc	1.20 inWc	4	24 in	24 in	12 in
							2	24 in	20 in	12 in
							8	20 in	24 in	12 in
							4	20 in	20 in	12 in
							5	12 in	24 in	12 in
<b>Door</b>										
<b>Location</b>			<b>Width</b>			<b>Opening</b>				
Drive side			18 in			Outward				
<b>Special Options</b>										
<b>Sound Baffle</b>					<b>Filter Gauge</b>					
(As casing details)					Magnehelic 0-5"					

<b>Access Section</b>	Component: 3	Length: 12 in	Shipping Section: 1
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**Air Pressure Drop**

0.00 inWc

**Door**

<b>Location</b>	<b>Width</b>	<b>Opening</b>
Drive side	8 in	Outward

<b>Chilled Water Coil</b>	Component: 4	Length: 40 in	Shipping Section: 1
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Coil Model	Total Capacity	Sensible Capacity	Number of Coils	Number of Rows	Fins per Inch	Tube Diameter	Tube Spacing (Face x Row)
5WS0910B	352356 Btu/hr	352356 Btu/hr	2	10	9	0.625 in	1.50 in x 1.299 in

Air Volume	Air Temperature				Coil Air Pressure Drop	Finned Height	Finned Length	Face Area	Face Velocity
	Entering		Leaving						
	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb					
26000 cfm	99.6 °F	77.2 °F	87.1 °F	73.8 °F	0.74 inWc	33 in	125 in	57.29 ft²	454 ft/min

Fluid		Flow Rate	Pressure Drop	Velocity	Volume	Weight
Entering	Leaving	60.00 gpm	9.50 ftHd	1.60 ft/s	71.0 gal	599.00 lb
82.9 °F	95.2 °F					

Connection [Data Per Coil]				Glycol Type	Min. Fin Surface Temp.	Min. Tube Wall Surface Temp.	Fouling Factor
Type	Size	Location	Material				
Threaded	2.50 in	Drive side	Carbon steel	Propylene (30%)	82.9 °F	82.9 °F	0.000

Material				Drain Pan	Drain Side	Turbospiral
Fin	Tube	Header	Case	Stainless steel	Drive side	Yes
Aluminum .0075 in	Copper .035 in	Copper	Galv. steel			

**AHRI 410 Certification**

Coil is NOT certified by AHRI

**Door**

<b>Location</b>	<b>Width</b>	<b>Opening</b>	<b>Window Type</b>	<b>Light</b>
Drive side	14 in	Outward	Round	LED marine light kit and switch only

<b>IFB Steam Coil</b>	Component: 5	Length: 36 in	Shipping Section: 2
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Coil Model	Total Capacity	Number of Coils	Number of Rows	Fins per Inch	Tube Diameter	Tube Spacing (Face x Row)
AMX11CE114.460.01	1512800 Btu/hr	1	1	11	0.625 in	1.50 in x 1.299 in

Air Volume	Air Temperature		Coil Air Pressure Drop	Finned Height	Finned Length	Face Area	Face Velocity
	Entering	Leaving					
	Dry Bulb	Dry Bulb					
26000 cfm	17.6 °F	71.5 °F	0.16 inWc	60 in	110 in	46.00 ft²	567 ft/min

Fluid		Max. Superheat Temp. in Steam Coil Inlet
Steam Pressure	Condensate Load	30.0 °F
15.00 psig	1599.67 lb/hr	

Connection [Data Per Coil]				
Type	Steam Size	Condensate Size	Location	Material
Threaded	3.00 in	2.50 in	Drive side	Carbon steel

Material			
Fin	Tube	Header	Case
Copper .012 in	Copper .035 in	Carbon Steel	Galv. steel

<b>Access Section</b>		Component: 6	Length: 24 in	Shipping Section: 2
<b>Air Pressure Drop</b>				
0.00 inWc				
<b>Door</b>				
<b>Location</b>	<b>Width</b>	<b>Opening</b>	<b>Light</b>	
Drive side	20 in	Outward	LED marine light kit with GFI outlet	

<b>Humidifier</b>		Component: 7	Length: 44 in	Shipping Section: 3				
<b>Humidifier Model</b>	<b>Humidification Capacity</b>	<b>Steam Type</b>	<b>Steam Pressure</b>	<b>Entering Relative Humidity</b>	<b>Leaving Relative Humidity</b>	<b>Absorption Distance</b>	<b>Tube Spacing</b>	
Condair SAME	717.87 lb/hr	Pressurized	12.00 psia	12.50	83.00	1.96 ft	3 in	
<b>Air Volume</b>	<b>Entering Dry Bulb</b>	<b>Entering Wet Bulb</b>	<b>Leaving Dry Bulb</b>	<b>Leaving Wet Bulb</b>	<b>Air Pressure Drop</b>	<b>Manifold Height</b>	<b>Manifold Width</b>	<b>Face Area</b>
26000 cfm	53.0 °F	36.9 °F	53.0 °F	50.2 °F	0.05 inWc	60 in	120 in	50.0 ft²
<b>Support Frame Material</b>	<b>*Steam Control Valve</b>	<b>*Control Valve Actuator</b>	<b>*Wye Strainer</b>	<b>*Steam Trap</b>	<b>*Condensate Trap</b>	<b>Insulation</b>	<b>Pipe Extension</b>	
Stainless	Stainless	0-10 VDC	By Others	By Others	By Others	None	5 Inch	
<b>Drain Pan Material</b>				<b>Drain Side</b>				
Stainless steel				Drive side				
<b>Steam Connection</b>				<b>Condensate Connection</b>				
<b>Size</b>		<b>Location</b>		<b>Size</b>		<b>Location</b>		
1-1/2" npt		Non drive side		0.75" npt		Non drive side		

**Notes**

Connection penetrations thru the unit cabinetry is not factory applied. Field penetrations are required.

\*Accessories ship loose for field installation.

<b>Door</b>		
<b>Location</b>	<b>Width</b>	<b>Opening</b>
Drive side	24 in	Outward

Chilled Water Coil		Component: 8			Length: 48 in		Shipping Section: 4		
Coil Model	Total Capacity	Sensible Capacity	Number of Coils	Number of Rows	Fins per Inch	Tube Diameter	Tube Spacing (Face x Row)		
5WD0712B	2176062 Btu/hr	1311348 Btu/hr	2	12	7	0.625 in	1.50 in x 1.299 in		
Air Volume	Air Temperature				Coil Air Pressure Drop	Finned Height	Finned Length	Face Area	Face Velocity
	Entering		Leaving						
	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb					
26000 cfm	99.6 °F	77.2 °F	52.9 °F	52.7 °F	1.01 inWc	33 in	125 in	57.29 ft²	454 ft/min
Water		Flow Rate	Pressure Drop	Velocity	Volume	Weight			
Entering	Leaving								
45.0 °F	59.1 °F	308.00 gpm	17.10 ftHd	3.80 ft/s	87.0 gal	726.00 lb			
Connection [Data Per Coil]					Min. Fin Surface Temp.	Min. Tube Wall Surface Temp.	Fouling Factor		
Type	Size	Location	Material						
Threaded	2.50 in	Drive side	Carbon steel		45.0 °F	45.0 °F	0.000		
Material						Drain Pan	Drain Side		
Fin	Tube	Header	Case						
Aluminum .0075 in	Copper .020 in	Copper	Galv. steel			Stainless steel		Drive side	
AHRI 410 Certification									
		Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at <a href="http://www.ahridirectory.org">www.ahridirectory.org</a>							
Door									
Location	Width	Opening	Window Type	Light					
Drive side	20 in	Outward	Round	UVC Lights					

<b>Supply Fan Array</b>	Component: 10	Length: 42 in	Shipping Section: 5
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**Fan Performance**

Air Volume*	Static Pressure			Fan Energy Index(FEI)	Total Input Power	Fan Shaft Power*	Speed		Redundancy(N-1)	Fan Circuit	
	External	Total	Cabinet				Operating	Maximum		MOP	MCA
6500 cfm	4.25 inWc	8.68 inWc	0.01 inWc	1.27	42.7 kW	13.15 BHP	3112 rpm	3650 rpm	100.0 %	125.0 A	103.3 A

**Fan Data**

Fan Type	Blade Type / Class	Quantity of Fans	Wheel Diameter	Number of Blades	Discharge	Motor Location
SWSI / 2x2	Airfoil / 2	4	18.25 in	12	Axial	Behind Fan

**Motor Data**

Power	Electrical Supply	Speed	Efficiency	Enclosure	Frame Size	Supplier	Number of Poles	Lock Rotor Current*	Full Load Current*
20.0 HP	460/60/3 V/Hz/Phase	3500 rpm	Premium	ODP	254 T frame	Generic	2	148.01 A	24.30 A

**Fan Options**

<b>Isolation Backdraft Dampers:</b>	Provided	<b>Block Off Plate:</b>	None
<b>Piezometer Ring:</b>	1 ring per fan	<b>Piezometer Delta P:</b>	16.06
<b>Shaft Grounding Kit:</b>	Provided	<b>Transducer:</b>	Output signal = 4-20 mA Input power = 10-35 VDC or 16-26 VAC
<b>Isolator Type:</b>	Spring		

**VFD/Starter/Disconnect Data**

<b>Selection Type:</b>	MMP J-Box	<b>Vendor:</b>	Factory Standard
<b>VFD Power:</b>	20 HP	<b>Voltage:</b>	460 v
<b>Height x Width x Depth:</b>	19.69 in x 19.69 in x 7.90 in	<b>Mounting:</b>	Door Side
<b>Enclosure:</b>	NEMA 1		

**Panel**

Location	Width	Opening
Removable panels	- in	Outward

**Notes**

\* after a unit label denotes the data for an individual fan.

<b>Plenum Section</b>	Component: 11	Length: 24 in	Shipping Section: 5
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**Air Pressure Drop**

0.12 inWc
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**Custom Openings**

Custom Opening	Location	Width	Height	Rainhood w/Screen
1	End	84 in	32 in	None

**Door**

Location	Width	Opening	Light
Drive side	20 in	Inward	LED marine light kit and switch only

**Special Options**

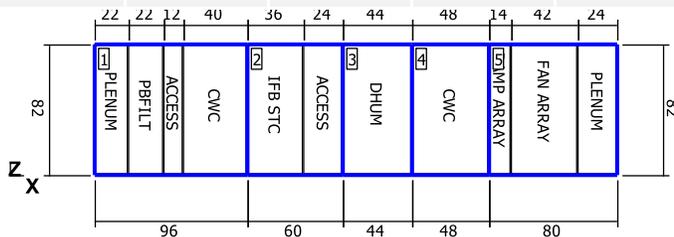
Tread Plate Floor Liner	Sound Baffle
Tread plate installed	(As casing details)

## Unit Sound Power (dB)

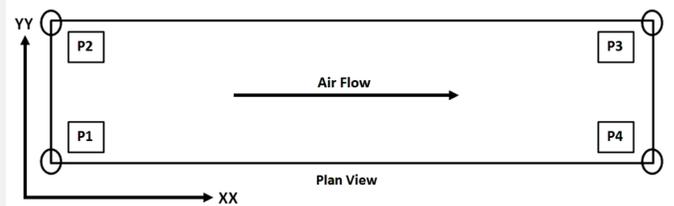
Type	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Radiated:	86	76	73	77	74	65	49	51
Unit Discharge:	91	81	83	92	90	87	81	74
Unit Return:	86	76	73	77	74	65	49	51

## Shipping Section Details

Section	Length in	Weight lb	Corner Weights (lb)				Center of Gravity (in)		
			P1	P2	P3	P4	XX	YY	ZZ
1	96	5537	1054	1118	1715	1652	58	71	45
2	60	2770	944	944	441	441	19	69	42
3	44	1165	300	301	282	281	21	69	36
4	48	3793	1258	1313	673	618	16	71	43
5	80	5125	1443	1474	1120	1088	34	70	42
<b>Entire Unit</b>	<b>328</b>	<b>18390</b>	<b>4382</b>	<b>4534</b>	<b>4848</b>	<b>4697</b>	<b>170</b>	<b>70</b>	<b>43</b>



Elevation View



NOTE: Special components aren't included in the corner weights and center of gravity data.

NOTE: Shipping weights listed do not include weight of water (listed in coil section(s) above).

## Shipping Protection

## Shipping Bag

NOTE: Shipping protection is not meant for long term storage.

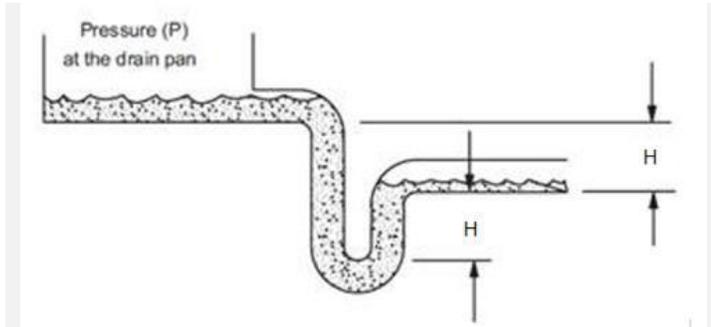
NOTE: In some instances a shipping bag cannot be applied. In these circumstances stretch wrap would be supplied.

## Supply Static Pressure Drop

Component	Option	Static Pressure Drop
Plenum Section	Plenum Section	0.14 insWg
Panel and Cartridge Filter	Panel and Cartridge Filter	2.20 insWg
Access Section	Access Section	
Chilled Water coil	Chilled Water coil	0.74 insWg
Steam Face and Bypass Coil	Steam Face and Bypass Coil	0.16 insWg
Access Section	Access Section	
Direct Humidifier	Direct Humidifier	0.05 insWg
Chilled Water coil	Chilled Water coil	1.01 insWg
Damper	Damper	
Supply Fan	Cabinet	0.01 insWg
Plenum Section	Plenum Section	0.12 insWg
External Static	External Static	4.25 insWg
<b>Total Supply Fan Static</b>		<b>8.68 insWg</b>

## Minimum Recommended Drain Pan Trap Dimensions

Shipping Section	Component	H
1	Chilled Water coil	6.66
3	Direct Humidifier	7.08
4	Chilled Water coil	9.10



Dimensions provided as a courtesy and are recommended minimums only. Daikin is not responsible for supplying or designing drain pan traps and is not responsible for any damage caused by incorrect trap heights. The dimensions listed above should be reviewed and approved by a licensed plumbing professional.

This calculation is based on an assumption that 0.25 inches of the external static pressure is in the return duct and the remainder is in the supply duct. If actual conditions vary from this assumption then contact Applications for new trap height recommendations.

## AHRI Certification



Certified by the AHRI Central Station Air-Handling Unit (AHU) Certification Program, which is based on AHRI Standard 430/431. AHRI certified units are subject to rigorous and continuous testing, have performance ratings independently measured and are third-party verified. Certified units may be found in the AHRI Directory at [www.ahridirectory.org](http://www.ahridirectory.org).

## Notes

### Important

1. This unit may not meet ASHRAE Standard 90.1 - 2007 fan motor power limitations for the year and system selected. If that code applies, alternate fan selections may be required.
2. The designer and installer must ensure compliance with applicable codes. A component supplier cannot determine the brake horsepower ("BHP") for other motors in the air handling system.
3. Before approving this unit, determine whether ASHRAE Standard 90.1 - 2007 has been adopted in the specific jurisdiction or contract specifications in which the unit will be installed.

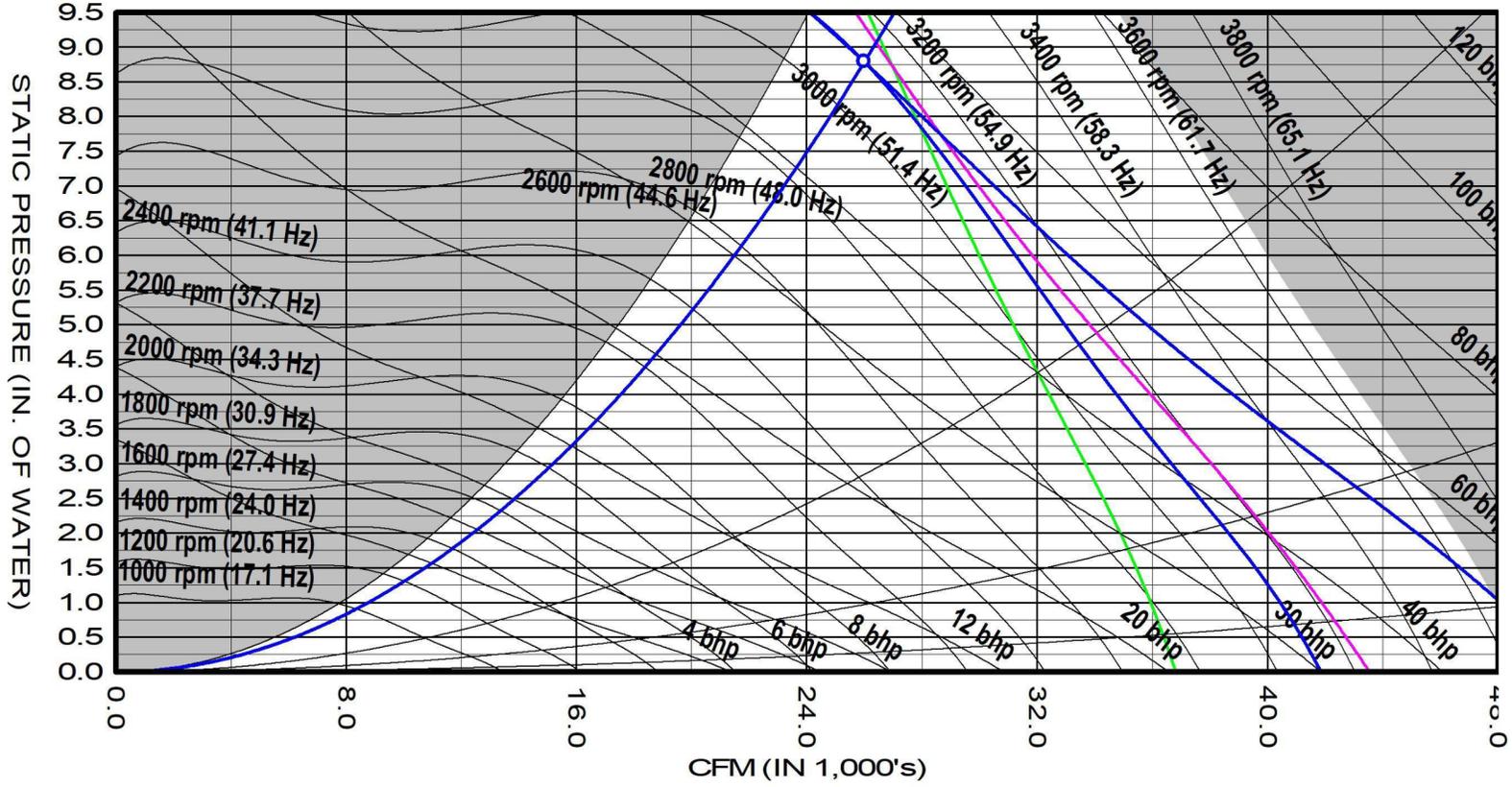
BOBKVU

UAMS CAMID

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3/12/2025

### Daikin AHU Fan Curve



Green line = fan curve for 3 fan(s) at max speed  
 Red line = BHP curve for 3 fan(s) at max power of selected motor

AF 18 DD PLENUM 12BL (100% Width) 2x2 Supply Fan at Standard Conditions					
Air volume	26000	cfm	Fan speed	3112	rpm
Total static	8.79	insWg	Max speed	3650	rpm
Fan Shaft Power	53.2	bhp	Efficiency	67.5	%
Approx VFD Setting	53.4	Hz	Motor Speed	3500	rpm
Fan Energy Index(FEI)	1.27		Redundancy	100.0	%
Unit tagging	AHU-2		Date	March-12-2025	
Job name	UAMS CAMID		Time	08:20	



Supply fan performance is certified in accordance with the Central Station Air-Handling Unit Certification Program, which is based on AHRI Standard 430.

AHU-2

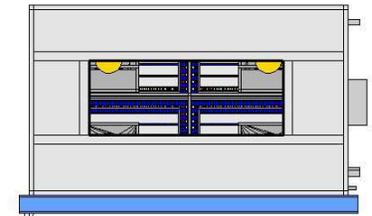
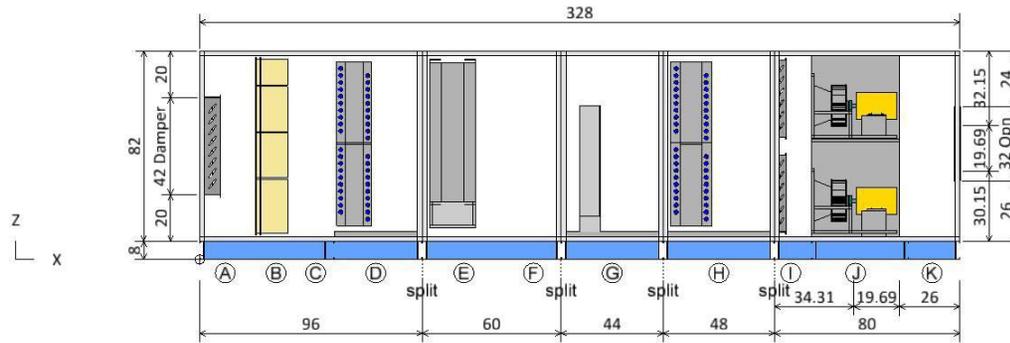
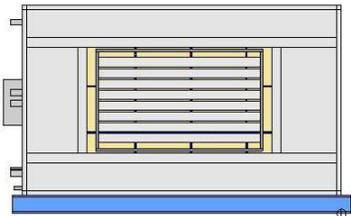
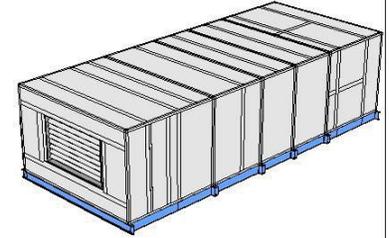
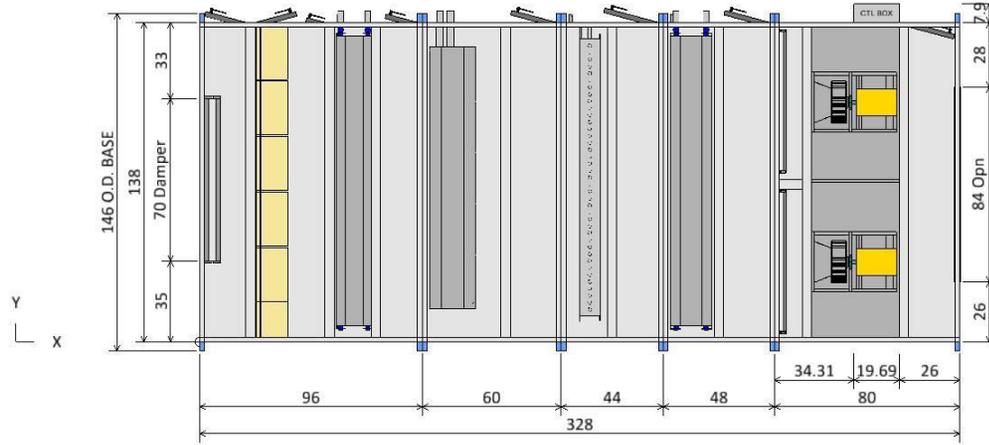
Fan Curve

BOBKVU

UAMS CAMID

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3/12/2025



AHU-2

Drawing

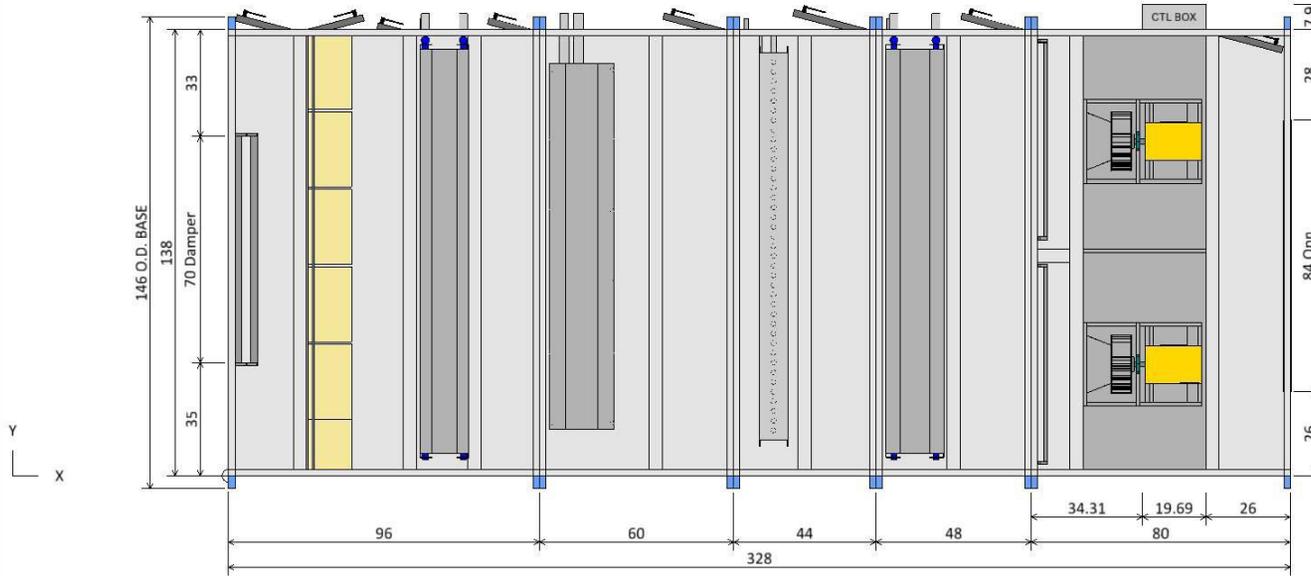
Plan/Elevation		Unit Tag: AHU-2			Sales Office: Harrison Energy Partners			REAR END VIEW	
Product: Vision Air Handler		Project Name: UAMS CAMID			Sales Engineer:			 13600 Industrial Park Blvd, Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 13.62	
Model: CAH064GDHM		Mar. 12, 2025	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in		
All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.									

BOBKVU

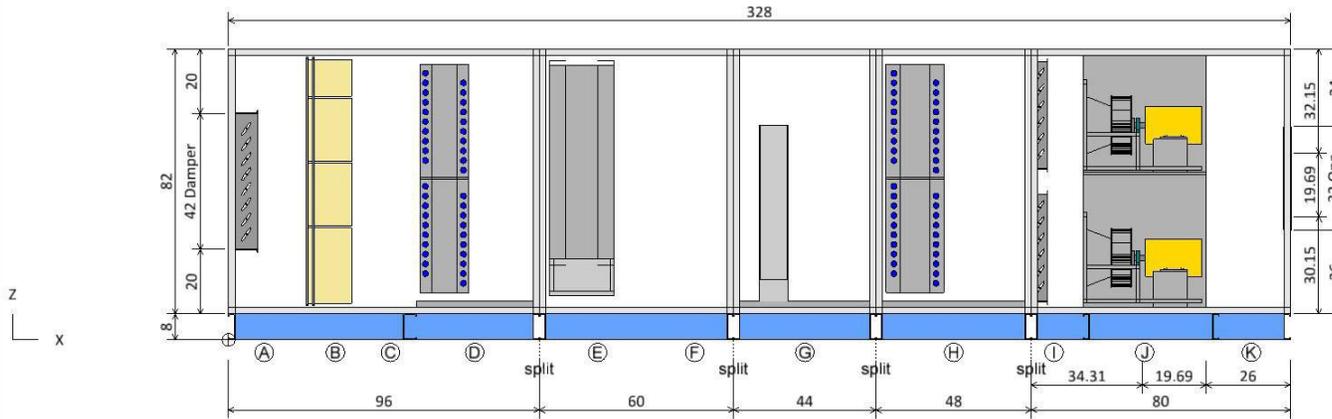
UAMS CAMID

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3/12/2025



PLAN VIEW



ELEVATION VIEW

Component Key	
(A) Plenum Section	
Left Door (WxH):	18 ins x 48 ins
Panel and Cartridge Filter	
Pre Filter Type:	Pleated (MERV 8)
Cartridge Filter Type:	Varicel VXL
Left Door (WxH):	18 ins x 78 ins
(C) Access Section	
Left Door (WxH):	8 ins x 68 ins
Chilled Water coil	
Coil Model:	5WS0910B
Total Capacity:	351133.0 Btu/hr
Left Door (WxH):	14 ins x 66 ins
(E) Steam Face and Bypass Coil	
Total Capacity:	1512800.0 Btu/hr
(F) Access Section	
Left Door (WxH):	20 ins x 68 ins
(G) Direct Humidifier	
Left Door (WxH):	24 ins x 66 ins
Chilled Water coil	
Coil Model:	5WD0712B
Total Capacity:	2176062.0 Btu/hr
Left Door (WxH):	20 ins x 66 ins
(I) Damper	
Supply Fan	
Fan Type:	Centrifugal - Plenum
Fan Size (Class):	18 (2)
Air Flowrate:	6500.0 cfm
T.S.P.:	8.7 insWg
Motor Power:	20.0 HP
(K) Plenum Section	
Left Door (WxH):	20 ins x 48 ins

AHU-2

Drawing

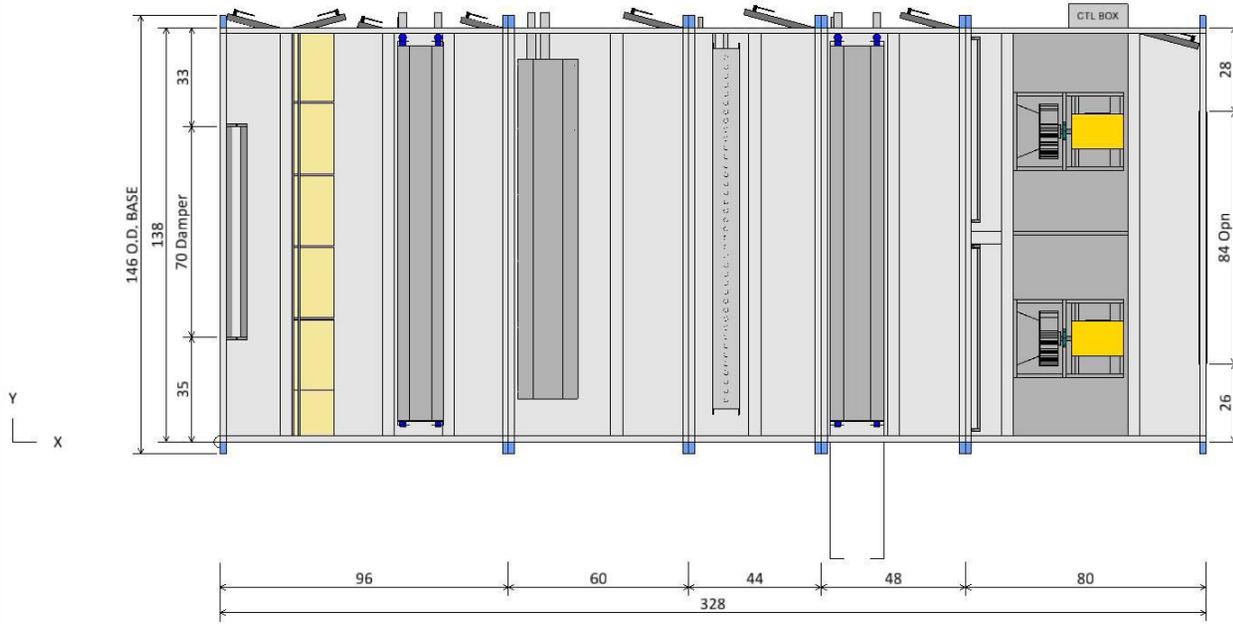
<b>Plan/Elevation - No Ends</b>		Unit Tag: AHU-2		Sales Office: Harrison Energy Partners			 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.62
Product: Vision Air Handler		Project Name: UAMS CAMID		Sales Engineer:			
Model: CAH064GDHM	Mar. 12, 2025	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in	
All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.							

BOBKVU

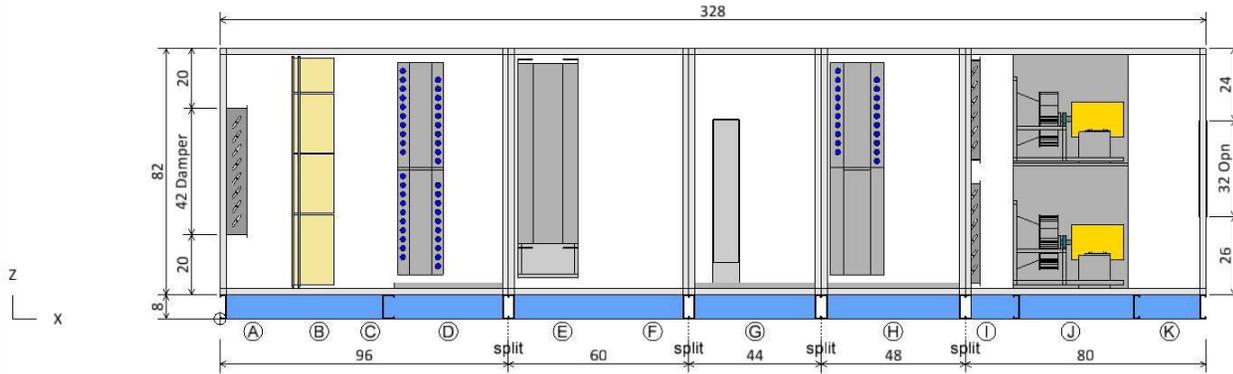
UAMS CAMID

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PLAN VIEW



ELEVATION VIEW

Component Key					
Type	X	Y	Z	Wid	Hgt
Ⓐ Plenum Section Return air damper	0.00	33.00	28.00	70.00	42.00
Ⓚ Plenum Section Opening	328.00	26.00	34.00	84.00	32.00

Note: Dimensions are measured from the origin point.  
 Note: Openings with or without dampers are recessed into the unit by approximately 1.75 in.

AHU-2

Drawing

**Opening/Damper Connections**

Product: Vision Air Handler

Model: CAH064GDHM

Unit Tag: AHU-2

Project Name: UAMS CAMID

Mar. 12, 2025

Ver/Rev:

Sheet: 1 of 1

Sales Office: Harrison Energy Partners

Sales Engineer:

Scale: NTS

Tolerance: +/-0.25"

Dwg Units: in



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 www.DaikinApplied.com Software Version: 13.62

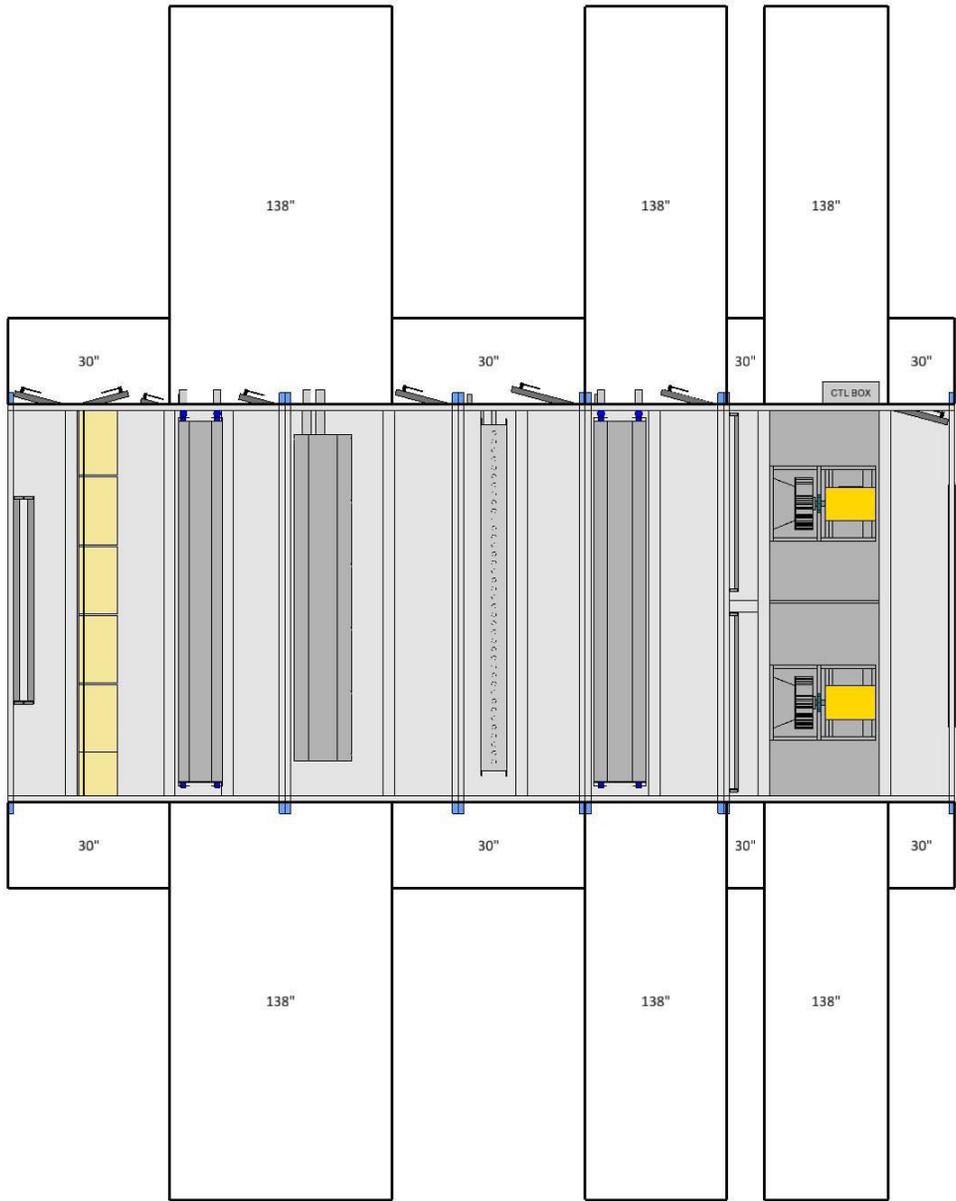
All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.

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UAMS CAMID

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PLAN VIEW

Notes

Check local electrical component service clearance codes for specific distances.

Access is only required on one side of the unit.

AHU-2

Drawing

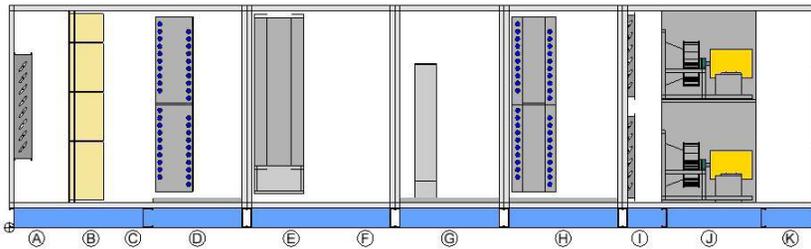
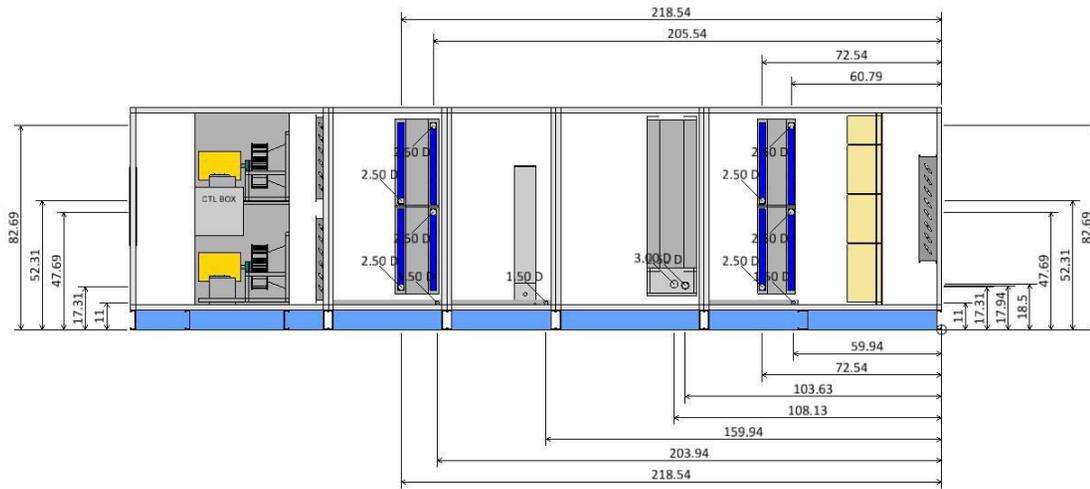
<b>Service Clearance View</b>		Unit Tag: AHU-2		Sales Office: Harrison Energy Partners			 13600 Industrial Park Blvd, Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 13.62
Product: Vision Air Handler		Project Name: UAMS CAMID		Sales Engineer:			
Model: CAH064GDHM	Mar. 12, 2025	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in	
All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.							

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UAMS CAMID

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Coil and Drain Connections

Type	X	Y	Z	Diam
Chilled Water coil				
Condensate drain conn:	59.94	141.40	11.00	1.50
ⓓ Cold water inlet:	72.54	143.00	17.31	2.50
Cold water outlet:	60.79	143.00	47.69	2.50
Cold water inlet:	72.54	143.00	52.31	2.50
Cold water outlet:	60.79	143.00	82.69	2.50
ⓔ Steam Face and Bypass Coil				
Steam inlet:	108.13	143.00	18.50	3.00
Steam outlet:	103.63	143.00	17.94	2.50
ⓖ Direct Humidifier				
Condensate drain conn:	159.94	141.40	11.00	1.50
ⓓ Chilled Water coil				
Condensate drain conn:	203.94	141.40	11.00	1.50
ⓓ Cold water inlet:	218.54	143.00	17.31	2.50
Cold water outlet:	205.54	143.00	47.69	2.50
Cold water inlet:	218.54	143.00	52.31	2.50
Cold water outlet:	205.54	143.00	82.69	2.50

Note: Dimensions are measured from the origin point.  
 Note: Humidifier connections do not penetrate cabinetry

AHU-2

Drawing

<b>Coil and Drain Connections</b>		Unit Tag: AHU-2		Sales Office: Harrison Energy Partners		 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.62	
Product: Vision Air Handler		Project Name: UAMS CAMID		Sales Engineer:			
Model: CAH064GDHM	Mar. 12, 2025	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"		

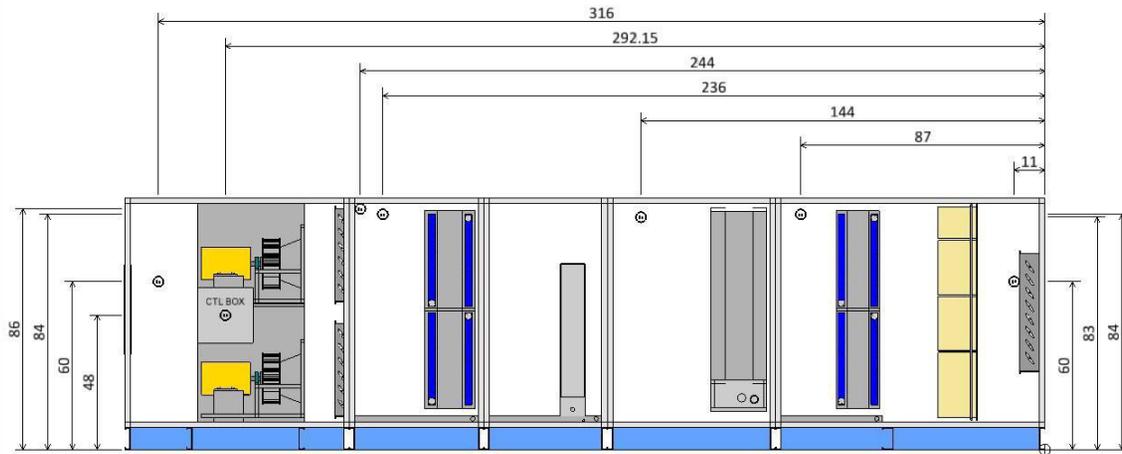
All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.

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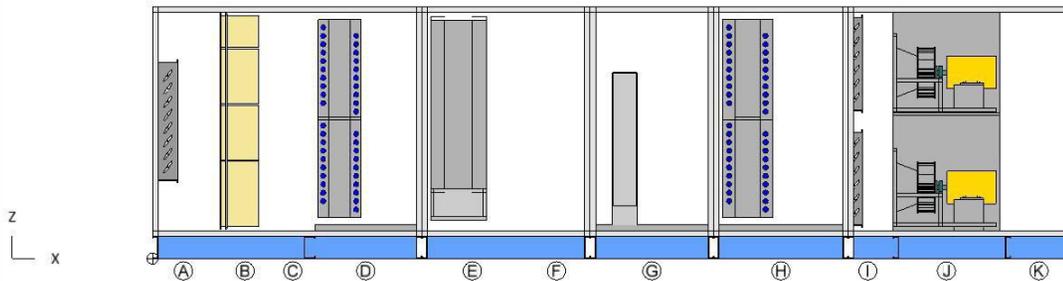
UAMS CAMID

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LEFT ELEVATION VIEW



RIGHT ELEVATION VIEW

Component Key

Type	X	Y	Z	Volts	Phase
Ⓐ Plenum Section LED Marine Light	11.00	138.00	60.00	110	1
Ⓓ Chilled Water coil LED Marine Light	87.00	138.00	84.00	110	1
Ⓕ Access Section LED Marine Light GFI	144.00	138.00	83.00	110	1
Ⓗ Chilled Water coil LED Marine Light	236.00	138.00	84.00	110	1
Ⓘ UVC Light	244.00	136.00	86.00	115	1
Ⓙ Supply Fan Fan	292.15	138.00	48.00	460	3
Ⓚ Plenum Section LED Marine Light	316.00	138.00	60.00	110	1

Note: Dimensions are measured from the origin point.

AHU-2

Drawing

**Electrical Connections**

Product: Vision Air Handler

Model: CAH064GDHM

Unit Tag: AHU-2

Project Name: UAMS CAMID

Mar. 12, 2025

Ver/Rev:

Sheet: 1 of 1

Sales Office: Harrison Energy Partners

Sales Engineer:

Scale: NTS

Tolerance: +/-0.25"

Dwg Units: in



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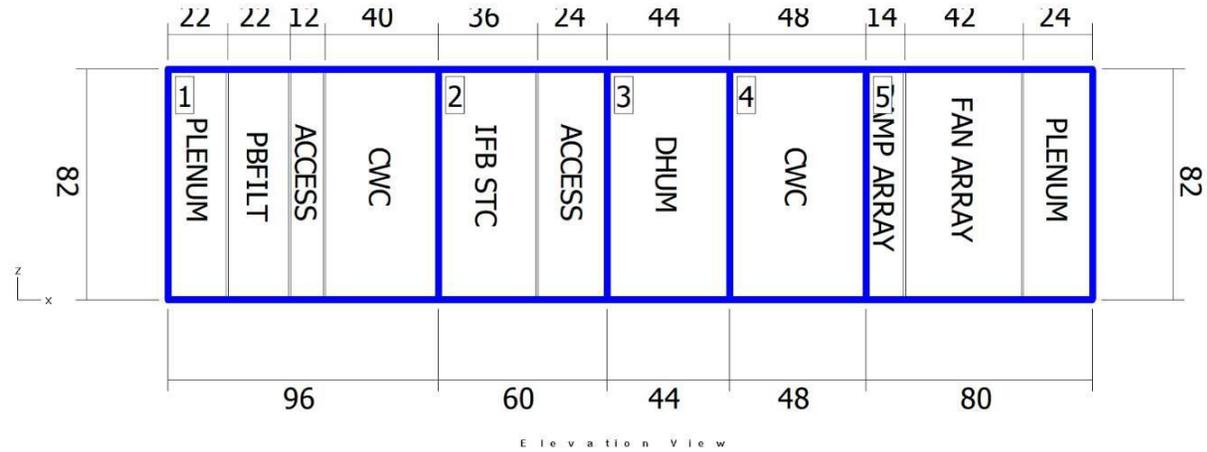
All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.

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UAMS CAMID

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Elevation View

Shipping Sections

Section	Weight (lb)	X	Y	Z
Section 1	4922.44	96	138	82
Section 2	2769.81	60	138	82
Section 3	1164.68	44	138	82
Section 4	3792.54	48	138	82
Section 5	5125.34	80	138	82
Total Unit	17774.80	328	138	82

Note: Base rails, curb ready base, coil connectors, drain connectors, and control boxes not included in height X, Y, Z dimensions. Shipping section may be 2" longer in air flow direction due to internal splice joint.

AHU-2

Drawing

<b>Shipping Sections</b>		Unit Tag: AHU-2		Sales Office: Harrison Energy Partners			 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.62
Product: Vision Air Handler		Project Name: UAMS CAMID		Sales Engineer:			
Model: CAH064GDHM	Mar. 12, 2025	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in	

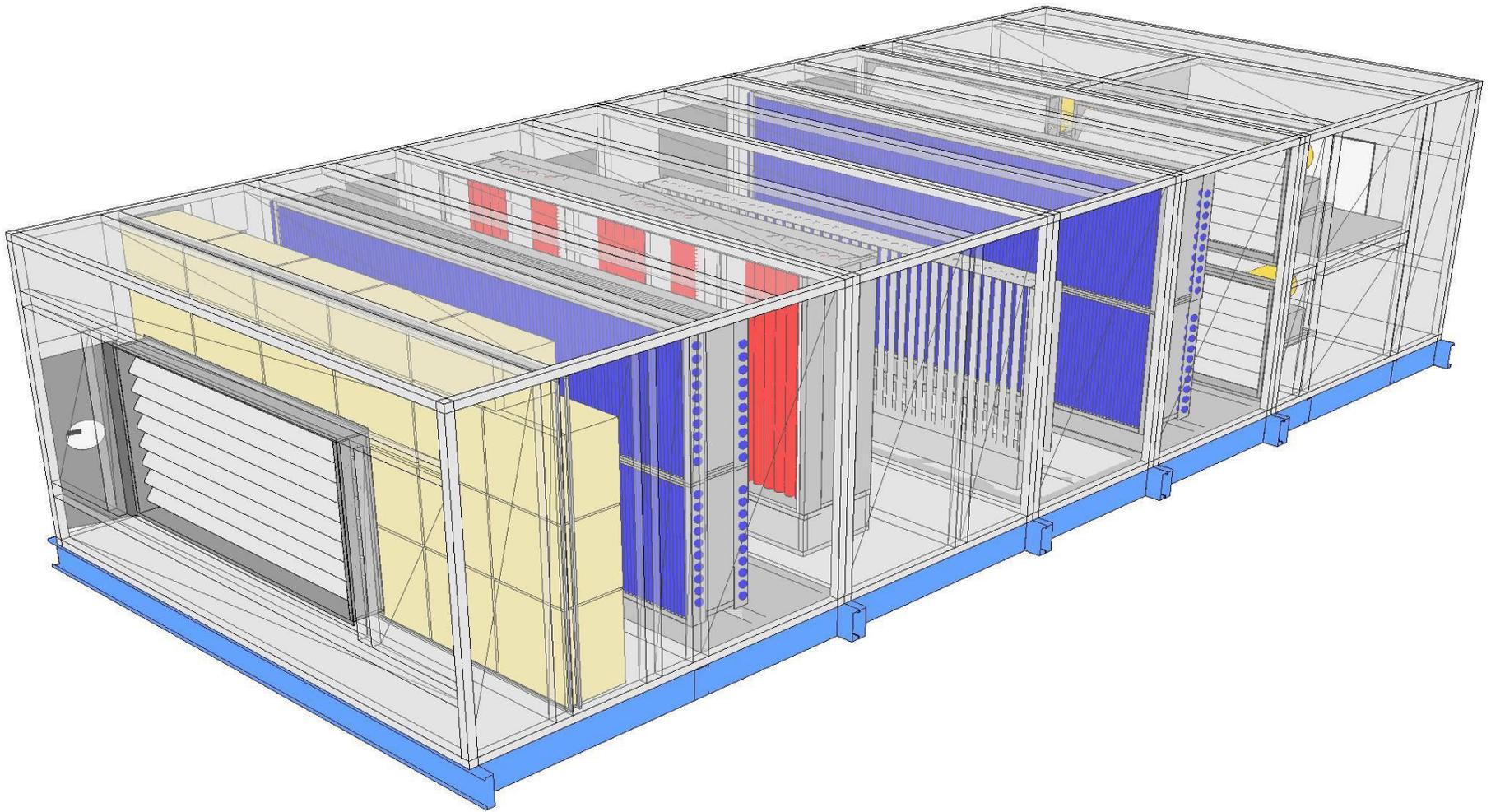
All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.

BOBKVU

UAMS CAMID

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3/12/2025

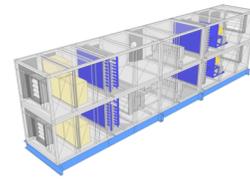


AHU-2

Drawing

<b>Product Drawing</b>		Unit Tag: AHU-2		Sales Office: Harrison Energy Partners			 13600 Industrial Park Blvd, Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 13.62
Product: Vision Air Handler		Project Name: UAMS CAMID		Sales Engineer:			
Model: CAH064GDHM	Mar. 12, 2025	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in	
All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.							

Job Information		Technical Data Sheet
Job Name	UAMS CAMID	
Date	March 12 2025	
Submitted By	JS	
Software Version	13.61	
Unit Tag	AHU-5	



**Unit Overview**

Model Number	Supply						Return/Exhaust					
	Air Volume cfm	Static Pressure		External Dimensions			Air Volume cfm	Static Pressure		External Dimensions		
		External inWc	Total inWc	Height in	Width in	Length in		External inWc	Total inWc	Height in	Width in	Length in
CAH008GDGM	3870	3.00	8.46	40*	50*	312	3870	2.40	7.86	40*	50*	312

\*Not including base rails, coil connectors, drain connectors and control boxes.

**Unit**

<b>Model Number:</b>	CAH008GDGM		
<b>Approval:</b>	ETL Listed / ETL Listed to Canadian Safety Standards (ETL Label / ETLc Label)		
<b>Construction:</b>	High pressure low leakage construction		
<b>Outer Panel:</b>	24 gauge G90 Galvanized Steel (unpainted)		
<b>Liner:</b>	24 gauge Galvanized Steel (unless noted per section)		
<b>Insulation:</b>	R-13 Injected Foam		
<b>Unit Configuration:</b>	Stacked with parallel air flows	<b>Drive (Handling) Location:</b>	Left
<b>Base:</b>	8" formed channel	<b>Wall Thickness:</b>	2 in
<b>Altitude:</b>	300 ft	<b>Parts Warranty:</b>	Standard One Year

Plenum Section	Component: 1	Length: 22 in	Shipping Section: 1
----------------	--------------	---------------	---------------------

**Air Pressure Drop**

0.48 inWc

**Custom Dampers**

Custom Damper	Damper Type	Location	Size (Width x Height)		Material	Blade Action	Rainhood w/Screen
			Overall	Opening			
1	UltraSeal Low Leak	End	24 in x 24 in	14 in x 20 in	Galv. Steel	Parallel	None

**Door**

Location	Width	Opening
Drive side	18 in	Outward

AHU-5

Technical Data Sheet

Combination Filter			Component: 2				Length: 22 in		Shipping Section: 1		
Access			Face Velocity				Face Area		Air Volume		
Side			506 ft/min				7.7 ft <sup>2</sup>		3870 cfm		
Portion	Type	Efficiency	Air Pressure Drop				Number of Filters	Height	Width	Depth	
			Clean Air	Mean Air	Dirty Air	User Spec					
Pre-Filter	Pleated	MERV 8	0.23 inWc	0.62 inWc	1.00 inWc	1.00 inWc	1	20 in	24 in	2 in	
							1	20 in	20 in	2 in	
							1	12 in	24 in	2 in	
Filter	Varicel VXL cartridge	MERV 15	0.36 inWc	1.18 inWc	2.00 inWc	1.20 inWc	1	20 in	24 in	12 in	
							1	20 in	20 in	12 in	
							1	12 in	24 in	12 in	
Door											
Location				Width				Opening			
Drive side				18 in				Outward			
Special Options											
Sound Baffle						Filter Gauge					
(As casing details)						Minihelic II 0-5"					

Access Section			Component: 3				Length: 14 in		Shipping Section: 1		
Air Pressure Drop											
0.00 inWc											
Panel											
Location				Width				Opening			
Removable panels				- in				Outward			

Chilled Water Coil			Component: 4				Length: 34 in		Shipping Section: 1		
Coil Model	Total Capacity	Sensible Capacity	Number of Coils		Number of Rows		Fins per Inch		Tube Diameter	Tube Spacing (Face x Row)	
5WS1108B	44490 Btu/hr	44490 Btu/hr	1		8		11		0.625 in	1.50 in x 1.299 in	
Air Volume	Air Temperature				Coil Air Pressure Drop	Finned Height	Finned Length	Face Area	Face Velocity		
	Entering		Leaving								
3225 cfm	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb	0.83 inWc	30 in	37 in	7.71 ft <sup>2</sup>	418 ft/min		
	99.6 °F	77.2 °F	86.8 °F	73.8 °F							
Fluid		Flow Rate		Pressure Drop		Velocity		Volume		Weight	
Entering	Leaving	40.00 gpm		7.00 ftHd		2.40 ft/s		9.0 gal		77.00 lb	
Connection [Data Per Coil]					Glycol Type	Min. Fin Surface Temp.	Min. Tube Wall Surface Temp.	Fouling Factor			
Type	Size	Location	Material					Propylene (30%)	85.9 °F	85.9 °F	0.000
Threaded	2.00 in	Opp drive side	Carbon steel		Stainless steel	Opp drive side	Turbospiral				
Material							Drain Pan		Drain Side		Turbospiral
Fin	Tube	Header	Case		Stainless steel		Opp drive side		Yes		
Aluminum .0075 in	Copper .035 in	Copper	Galv. steel								

Component performance shown is based on the component air volume shown.

Static pressure shown is based on the fan air volume.

AHRI 410 Certification										
Coil is NOT certified by AHRI										
Door										
Location				Width				Opening		Light
Drive side				14 in				Outward		LED marine light kit and switch only

AHU-5

Technical Data Sheet

IFB Steam Coil		Component: 5			Length: 36 in		Shipping Section: 1	
Coil Model	Total Capacity	Number of Coils	Number of Rows	Fins per Inch	Tube Diameter	Tube Spacing (Face x Row)		
HMX8AS30.627.02	239100 Btu/hr	1	2	8	0.625 in	1.50 in x 1.299 in		
Air Volume	Air Temperature		Coil Air Pressure Drop	Finned Height	Finned Length	Face Area	Face Velocity	
	Entering Dry Bulb	Leaving Dry Bulb						
3870 cfm	17.6 °F	74.8 °F	0.38 inWc	28 in	27 in	5.17 ft²	759 ft/min	
Fluid					Max. Superheat Temp. in Steam Coil Inlet			
Steam Pressure		Condensate Load			30.0 °F			
15.00 psig		252.82 lb/hr						
Connection [Data Per Coil]								
Type	Steam Size	Condensate Size		Location		Material		
Threaded	2.50 in	2.50 in		Opp drive side		Carbon steel		
Material								
Fin	Tube	Header		Case				
Aluminum .0075 in	Copper .035 in	Carbon Steel		Galv. steel				

Access Section		Component: 6			Length: 26 in		Shipping Section: 2	
Air Pressure Drop								
0.00 inWc								
Door								
Location	Width	Opening		Window Type		Light		
Drive side	22 in	Outward		Round		LED marine light kit with GFI outlet		

Humidifier		Component: 7			Length: 46 in		Shipping Section: 2	
Humidifier Model	Humidification Capacity	Steam Type	Steam Pressure	Entering Relative Humidity	Leaving Relative Humidity	Absorption Distance	Tube Spacing	
Condair SAME	95.48 lb/hr	Pressurized	12.00 psia	12.00	75.00	2.18 ft	3 in	
Air Volume	Entering Dry Bulb	Entering Wet Bulb	Leaving Dry Bulb	Leaving Wet Bulb	Air Pressure Drop	Manifold Height	Manifold Width	Face Area
3870 cfm	53.0 °F	36.8 °F	53.0 °F	48.9 °F	0.12 inWc	24 in	36 in	6.0 ft²
Support Frame Material	*Steam Control Valve	*Control Valve Actuator	*Wye Strainer	*Steam Trap	*Condensate Trap	Insulation	Pipe Extension	
Stainless	Stainless	0-10 VDC	By Others	By Others	By Others	None	5 Inch	
Drain Pan Material				Drain Side				
Stainless steel				Opp drive side				
Steam Connection				Condensate Connection				
Size		Location			Size		Location	
1/2" npt		Non drive side			0.75" npt		Non drive side	

Notes

Connection penetrations thru the unit cabinetry is not factory applied. Field penetrations are required.

\*Accessories ship loose for field installation.

Door		
Location	Width	Opening
Drive side	26 in	Outward

AHU-5

Technical Data Sheet

Chilled Water Coil		Component: 8			Length: 42 in		Shipping Section: 3		
Coil Model	Total Capacity	Sensible Capacity	Number of Coils		Number of Rows	Fins per Inch	Tube Diameter	Tube Spacing (Face x Row)	
5WL1210B	323103 Btu/hr	194862 Btu/hr	1		10	12	0.625 in	1.50 in x 1.299 in	
Air Volume	Air Temperature				Coil Air Pressure Drop	Finned Height	Finned Length	Face Area	Face Velocity
	Entering		Leaving						
	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb					
3870 cfm	99.6 °F	77.2 °F	53.0 °F	52.8 °F	1.40 inWc	30 in	37 in	7.71 ft²	502 ft/min
Water		Flow Rate		Pressure Drop	Velocity	Volume		Weight	
Entering		Leaving							
45.0 °F		60.0 °F		43.10 gpm	7.00 ftHd	3.10 ft/s		11.0 gal	
Connection [Data Per Coil]					Min. Fin Surface Temp.	Min. Tube Wall Surface Temp.	Fouling Factor		
Type	Size	Location	Material						
Threaded	2.00 in	Drive side	Carbon steel		45.0 °F	45.0 °F	0.000		
Material						Drain Pan		Drain Side	
Fin	Tube	Header	Case						
Aluminum .0075 in	Copper .020 in	Copper	Galv. steel			Stainless steel		Opp drive side	
<b>AHRI 410 Certification</b>									
 Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at <a href="http://www.ahridirectory.org">www.ahridirectory.org</a>									
<b>Door</b>									
Location		Width		Opening		Window Type		Light	
Drive side		20 in		Outward		Round		UVC Lights	
Return/Exhaust Fan		Component: 9			Length: 38 in		Shipping Section: 3		
<b>Fan Performance</b>									
Air Volume	Static Pressure			Fan Energy Index(FEI)	Total Input Power	Fan Shaft Power	Speed		Outlet Velocity
	External	Total	Cabinet				Operating	Maximum	
3870 cfm	2.40 inWc	7.86 inWc	0.00 inWc	1.11	6.9 kW	7.71 BHP	3323 rpm	3650 rpm	0 ft/min
<b>Fan Data</b>									
Fan Type	Blade Type / Class	Nominal Fan Size	Quantity of Fans	Wheel Diameter	Material Type	Number of Blades	Discharge	Motor Location	
Centrifugal - Plenum	Airfoil / 2	DDPL16	1	15.75 in	Aluminum	12	Axial	Behind Fan	
<b>Motor Data</b>									
Power	Electrical Supply	Speed	Efficiency	Enclosure	Frame Size	Supplier	Number of Poles	Lock Rotor Current	Full Load Current
10.0 HP	460/60/3 V/Hz/Phase	3500 rpm	Premium	ODP	213 T frame	Generic	2	74.01 A	12.40 A
<b>Fan Options</b>									
Piezometer Ring:		Provided on Drive Side Fan				Piezometer Delta P:		6.78	
Shaft Grounding Kit:		Provided				Isolator Type:		Spring	
<b>VFD/Starter/Disconnect Data</b>									
Selection Type:		External J-Box				Vendor:		Factory Standard	
VFD Power:		10 HP				Voltage:		460 v	
Height x Width x Depth:		6.00 in x 6.00 in x 4.00 in				Mounting:		Door Side	
Enclosure:		NEMA 1							
<b>Door</b>									
Location			Width			Opening			
Drive side			22 in			Outward			

Plenum Section		Component: 10		Length: 32 in		Shipping Section: 3	
<b>Air Pressure Drop</b>							
0.05 inWc							
<b>Custom Dampers</b>							
Custom Damper	Damper Type	Location	Size (Width x Height)		Material	Blade Action	Rainhood w/Screen
			Overall	Opening			
1	CBD6-OUT	End	32 in x 26 in	29 in x 23 in	Alum	Parallel	None
<b>Door</b>							
Location		Width		Opening		Light	
Drive side		24 in		Outward		LED marine light kit and switch only	

Plenum Section		Component: 11		Length: 22 in		Shipping Section: 4	
<b>Air Pressure Drop</b>							
0.48 inWc							
<b>Custom Dampers</b>							
Custom Damper	Damper Type	Location	Size (Width x Height)		Material	Blade Action	Rainhood w/Screen
			Overall	Opening			
1	UltraSeal Low Leak	End	24 in x 24 in	14 in x 20 in	Galv. Steel	Parallel	None
<b>Door</b>							
Location		Width		Opening			
Drive side		18 in		Outward			

Combination Filter		Component: 12		Length: 22 in		Shipping Section: 4				
Access		Face Velocity		Face Area		Air Volume				
Side		506 ft/min		7.7 ft <sup>2</sup>		3870 cfm				
Portion	Type	Efficiency	Air Pressure Drop				Number of Filters	Height	Width	Depth
			Clean Air	Mean Air	Dirty Air	User Spec				
Pre-Filter	Pleated	MERV 8	0.23 inWc	0.62 inWc	1.00 inWc	1.00 inWc	1	20 in	24 in	2 in
							1	20 in	20 in	2 in
							1	12 in	24 in	2 in
Filter	Varicel VXL cartridge	MERV 15	0.36 inWc	1.18 inWc	2.00 inWc	1.20 inWc	1	20 in	24 in	12 in
							1	20 in	20 in	12 in
							1	12 in	24 in	12 in
<b>Door</b>										
Location		Width		Opening						
Drive side		18 in		Outward						
<b>Special Options</b>										
Sound Baffle					Filter Gauge					
(As casing details)					Magnehelic 0-5"					

Access Section		Component: 13		Length: 14 in		Shipping Section: 4	
<b>Air Pressure Drop</b>							
0.00 inWc							
<b>Panel</b>							
Location		Width		Opening			
Removable panels		- in		Outward			

AHU-5

Technical Data Sheet

Chilled Water Coil		Component: 14			Length: 34 in		Shipping Section: 4		
Coil Model	Total Capacity	Sensible Capacity	Number of Coils	Number of Rows	Fins per Inch	Tube Diameter	Tube Spacing (Face x Row)		
5WS1108B	44490 Btu/hr	44490 Btu/hr	1	8	11	0.625 in	1.50 in x 1.299 in		
Air Volume	Air Temperature				Coil Air Pressure Drop	Finned Height	Finned Length	Face Area	Face Velocity
	Entering		Leaving						
3225 cfm	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb	0.83 inWc	30 in	37 in	7.71 ft <sup>2</sup>	418 ft/min
	99.6 °F	77.2 °F	86.8 °F	73.8 °F					
Fluid		Flow Rate	Pressure Drop	Velocity	Volume	Weight			
Entering	Leaving	40.00 gpm	7.00 ftHd	2.40 ft/s	9.0 gal	77.00 lb			
85.9 °F	88.2 °F								
Connection [Data Per Coil]				Glycol Type	Min. Fin Surface Temp.	Min. Tube Wall Surface Temp.	Fouling Factor		
Type	Size	Location	Material	Propylene (30%)	85.9 °F	85.9 °F	0.000		
Threaded	2.00 in	Opp drive side	Carbon steel						
Material				Drain Pan	Drain Side	Turbospiral			
Fin	Tube	Header	Case	Stainless steel	Opp drive side	Yes			
Aluminum .0075 in	Copper .035 in	Copper	Galv. steel						

Component performance shown is based on the component air volume shown.

Static pressure shown is based on the fan air volume.

AHRI 410 Certification

Coil is NOT certified by AHRI

Door

Location	Width	Opening	Light
Drive side	14 in	Outward	LED marine light kit and switch only

Manual Component		Component: 15		Length: 36 in		Shipping Section: 4	
Pressure Drop							
0.00 inWc							
Panel							
Location	Width	Opening					
Removable panels	- in	Outward					
Special Options							
Sound Baffle				Static Pressure			
(As casing details)				0.38 inWc			

Access Section		Component: 16		Length: 26 in		Shipping Section: 5	
Air Pressure Drop							
0.00 inWc							
Door							
Location	Width	Opening	Window Type	Light			
Drive side	22 in	Outward	Round	LED marine light kit with GFI outlet			

IFB Coil Section.  
 IFB coil in this section will be identical to the IFB coil in the bottom section of the air handler (component 5)

AHU-5

Technical Data Sheet

Humidifier		Component: 17			Length: 46 in		Shipping Section: 5	
Humidifier Model	Humidification Capacity	Steam Type	Steam Pressure	Entering Relative Humidity	Leaving Relative Humidity	Absorption Distance	Tube Spacing	
Condair SAME	95.48 lb/hr	Pressurized	12.00 psia	12.00	75.00	2.18 ft	3 in	
Air Volume	Entering Dry Bulb	Entering Wet Bulb	Leaving Dry Bulb	Leaving Wet Bulb	Air Pressure Drop	Manifold Height	Manifold Width	Face Area
3870 cfm	53.0 °F	36.8 °F	53.0 °F	48.9 °F	0.12 inWc	24 in	36 in	6.0 ft²
Support Frame Material	*Steam Control Valve	*Control Valve Actuator	*Wye Strainer	*Steam Trap	*Condensate Trap	Insulation	Pipe Extension	
Stainless	Stainless	0-10 VDC	By Others	By Others	By Others	None	5 Inch	
Drain Pan Material				Drain Side				
Stainless steel				Opp drive side				
Steam Connection				Condensate Connection				
Size		Location			Size		Location	
1/2" npt		Non drive side			0.75" npt		Non drive side	

Notes

Connection penetrations thru the unit cabinetry is not factory applied. Field penetrations are required.

\*Accessories ship loose for field installation.

Chilled Water Coil		Component: 18			Length: 42 in		Shipping Section: 6		
Coil Model	Total Capacity	Sensible Capacity	Number of Coils		Number of Rows	Fins per Inch	Tube Diameter	Tube Spacing (Face x Row)	
5WL1210B	323103 Btu/hr	194862 Btu/hr	1		10	12	0.625 in	1.50 in x 1.299 in	
Air Volume	Air Temperature				Coil Air Pressure Drop	Finned Height	Finned Length	Face Area	Face Velocity
	Entering		Leaving						
	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb					
3870 cfm	99.6 °F	77.2 °F	53.0 °F	52.8 °F	1.40 inWc	30 in	37 in	7.71 ft²	502 ft/min
Water		Flow Rate		Pressure Drop	Velocity	Volume		Weight	
Entering	Leaving								
45.0 °F	60.0 °F	43.10 gpm		7.00 ftHd	3.10 ft/s	11.0 gal		93.00 lb	
Connection [Data Per Coil]					Min. Fin Surface Temp.	Min. Tube Wall Surface Temp.	Fouling Factor		
Type	Size	Location	Material						
Threaded	2.00 in	Drive side	Carbon steel		45.0 °F	45.0 °F	0.000		
Material						Drain Pan		Drain Side	
Fin	Tube	Header	Case						
Aluminum .0075 in	Copper .020 in	Copper	Galv. steel			Stainless steel		Opp drive side	

AHRI 410 Certification



Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at [www.ahridirectory.org](http://www.ahridirectory.org)

Door

Location	Width	Opening	Window Type	Light
Drive side	20 in	Outward	Round	UVC Lights

<b>Supply Fan</b>	Component: 19	Length: 38 in	Shipping Section: 6
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Fan Performance									
Air Volume	Static Pressure			Fan Energy Index(FEI)	Total Input Power	Fan Shaft Power	Speed		Outlet Velocity
	External	Total	Cabinet				Operating	Maximum	
3870 cfm	3.00 inWc	8.46 inWc	0.00 inWc	1.10	7.4 kW	8.31 BHP	3409 rpm	3650 rpm	0 ft/min

Fan Data									
Fan Type	Blade Type / Class	Nominal Fan Size	Quantity of Fans	Wheel Diameter	Material Type	Number of Blades	Discharge	Motor Location	
Centrifugal - Plenum	Airfoil / 2	DDPL16	1	15.75 in	Aluminum	12	Axial	Behind Fan	

Motor Data									
Power	Electrical Supply	Speed	Efficiency	Enclosure	Frame Size	Supplier	Number of Poles	Lock Rotor Current	Full Load Current
10.0 HP	460/60/3 V/Hz/Phase	3500 rpm	Premium	ODP	213 T frame	Generic	2	74.01 A	12.40 A

Fan Options									
<b>Piezometer Ring:</b>	Provided on Drive Side Fan				<b>Piezometer Delta P:</b>	6.78			
<b>Shaft Grounding Kit:</b>	Provided				<b>Isolator Type:</b>	Spring			

VFD/Starter/Disconnect Data									
<b>Selection Type:</b>	External J-Box				<b>Vendor:</b>	Factory Standard			
<b>VFD Power:</b>	10 HP				<b>Voltage:</b>	460 v			
<b>Height x Width x Depth:</b>	6.00 in x 6.00 in x 4.00 in				<b>Mounting:</b>	Door Side			
<b>Enclosure:</b>	NEMA 1								

Door									
Location			Width			Opening			
Drive side			22 in			Outward			

<b>Plenum Section</b>	Component: 20	Length: 32 in	Shipping Section: 6
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Air Pressure Drop									
0.05 inWc									

Custom Dampers									
Custom Damper	Damper Type	Location	Size (Width x Height)		Material	Blade Action	Rainhood w/Screen		
			Overall	Opening					
1	CBD6-OUT	End	32 in x 26 in	29 in x 23 in	Alum	Parallel	None		

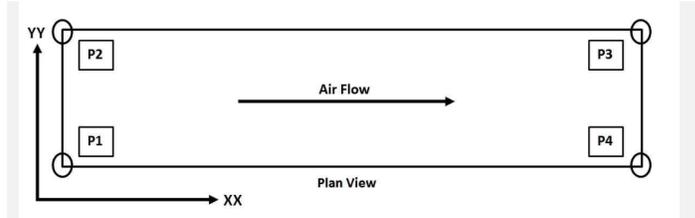
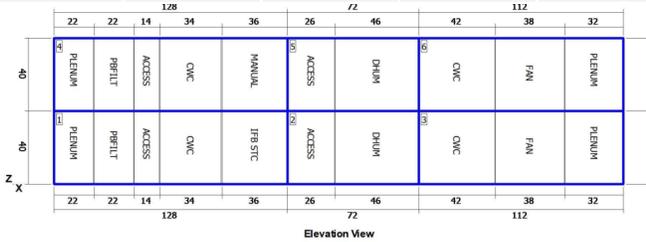
Door									
Location			Width			Opening		Light	
Drive side			24 in			Outward		LED marine light kit and switch only	

Unit Sound Power (dB)									
Type	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
<b>Radiated:</b>	86	76	67	75	69	63	52	51	
<b>Unit Discharge:</b>	86	79	77	84	83	83	82	73	
<b>Unit Return:</b>	86	76	67	75	69	63	52	51	

**Shipping Section Details**

Section	Length in	Weight lb	Corner Weights (lb)				Center of Gravity (in)		
			P1	P2	P3	P4	XX	YY	ZZ
1	128	1745	403	380	469	492	71	24	24
2	72	510	120	120	134	135	38	25	23
3	112	1583	481	507	322	296	43	26	23
4	128	1246	321	299	302	325	64	24	27
5	72	410	96	95	110	110	39	25	27
6	112	1395	434	460	275	249	41	26	25
<b>Entire Unit</b>	<b>312</b>	<b>6889</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>

*Lower level only*



NOTE: Special components aren't included in the corner weights and center of gravity data.

NOTE: Shipping weights listed do not include weight of water (listed in coil section(s) above).

**Shipping Protection**

None

**Supply Static Pressure Drop**

Component	Option	Static Pressure Drop
Plenum Section	Plenum Section	0.48 insWg
Panel and Cartridge Filter	Panel and Cartridge Filter	2.20 insWg
Access Section	Access Section	
Chilled Water coil	Chilled Water coil	0.83 insWg
Manual Section	Manual Section	
Manual Section	Special	0.38 insWg
Access Section	Access Section	
Direct Humidifier	Direct Humidifier	0.12 insWg
Chilled Water coil	Chilled Water coil	1.40 insWg
Supply Fan	Cabinet	
Plenum Section	Plenum Section	0.05 insWg
External Static	External Static	3.00 insWg
<b>Total Supply Fan Static</b>		<b>8.46 insWg</b>

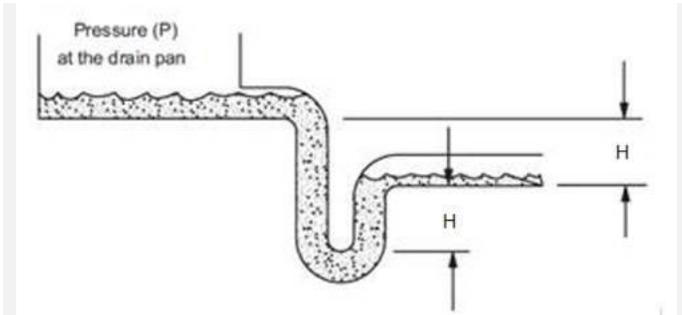
Fan data below will be the same as supply fan data on sheet above

AHU-5

Technical Data Sheet

Exhaust Static Pressure Drop		
Component	Option	Static Pressure Drop
Plenum Section	Plenum Section	0.48 insWg
Panel and Cartridge Filter	Panel and Cartridge Filter	2.20 insWg
Access Section	Access Section	
Chilled Water coil	Chilled Water coil	0.83 insWg
Steam Face and Bypass Coil	Steam Face and Bypass Coil	0.38 insWg
Access Section	Access Section	
Direct Humidifier	Direct Humidifier	0.12 insWg
Chilled Water coil	Chilled Water coil	1.40 insWg
Return Fan	Cabinet	
Plenum Section	Plenum Section	0.05 insWg
External Static	External Static	2.40 insWg
<b>Total Return/Exhaust Fan Static</b>		<b>7.86 insWg</b>

Minimum Recommended Drain Pan Trap Dimensions		
Shipping Section	Component	H
1	Chilled Water coil	11.82
2	Direct Humidifier	12.82
3	Chilled Water coil	15.62
4	Chilled Water coil	7.02
5	Direct Humidifier	8.02
6	Chilled Water coil	10.82



Trap heights for sections 1, 2 and 3 will be the same as the trap heights listed for sections 4, 5 and 6.

Dimensions provided as a courtesy and are recommended minimums only. Daikin is not responsible for supplying or designing drain pan traps and is not responsible for any damage caused by incorrect trap heights. The dimensions listed above should be reviewed and approved by a licensed plumbing professional.

### AHRI Certification



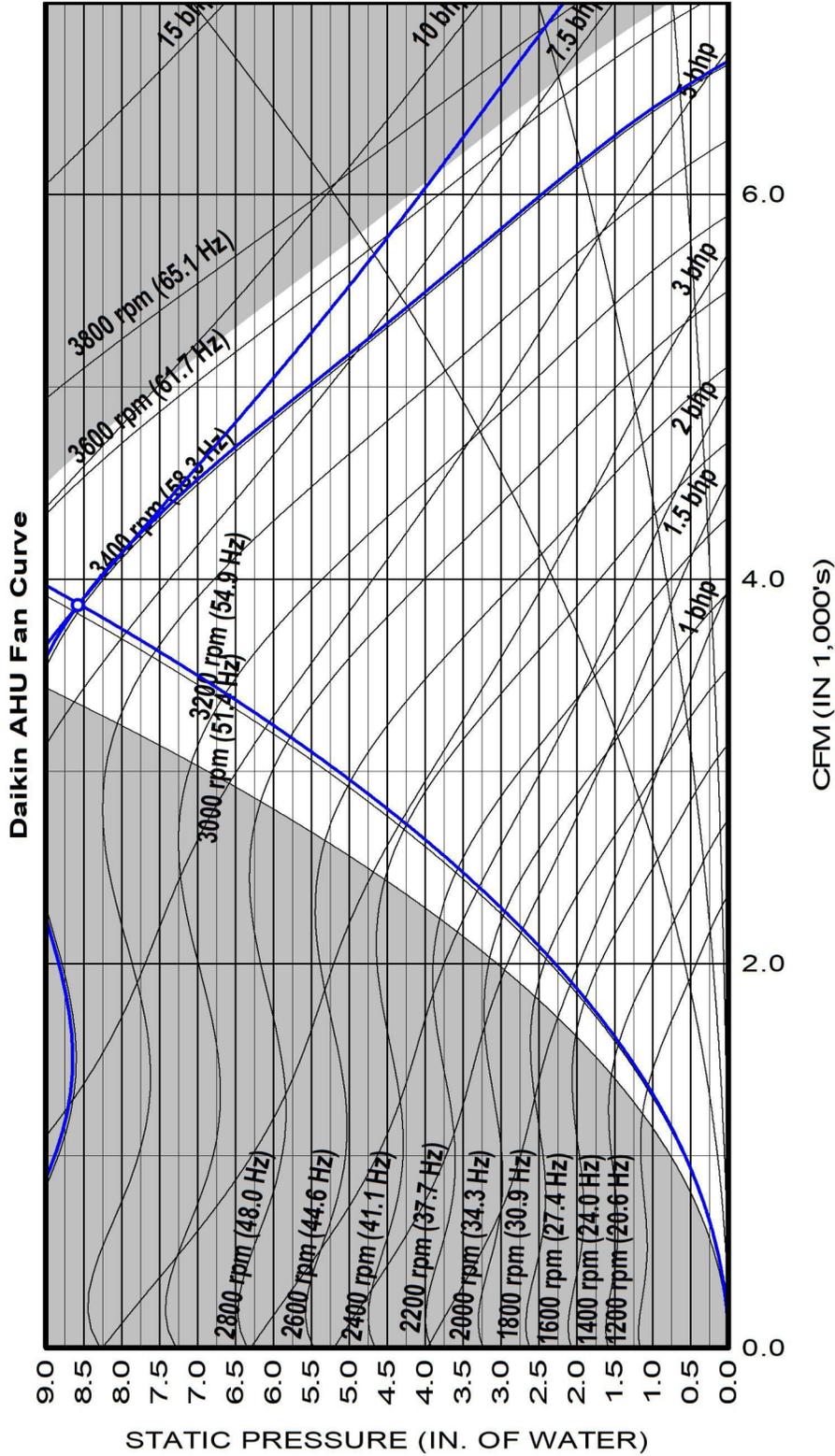
Certified by the AHRI Central Station Air-Handling Unit (AHU) Certification Program, which is based on AHRI Standard 430/431. AHRI certified units are subject to rigorous and continuous testing, have performance ratings independently measured and are third-party verified. Certified units may be found in the AHRI Directory at [www.ahridirectory.org](http://www.ahridirectory.org).

### Notes

#### Important

1. This unit may not meet ASHRAE Standard 90.1 - 2007 fan motor power limitations for the year and system selected. If that code applies, alternate fan selections may be required.
2. The designer and installer must ensure compliance with applicable codes. A component supplier cannot determine the brake horsepower ("BHP") for other motors in the air handling system.
3. Before approving this unit, determine whether ASHRAE Standard 90.1 - 2007 has been adopted in the specific jurisdiction or contract specifications in which the unit will be installed.

Fan curve for both fans

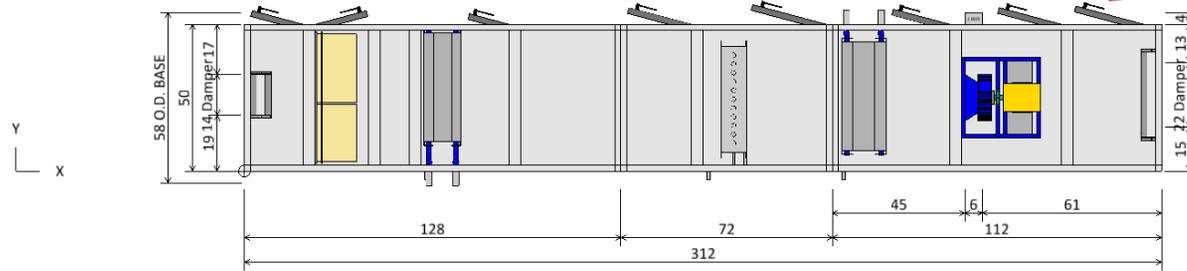


AF 16 DD PLENUM 12BL (100% Width) 1x1 Supply Fan at Standard Conditions					
Air volume	3870	cfm	Fan speed	3409	rpm
Total static	8.56	insWg	Max speed	3650	rpm
Fan Shaft Power	8.4	bhp	Efficiency	62.0	%
Approx VFD Setting	58.4	Hz	Motor Speed	3500	rpm
Fan Energy Index(FEI)	1.10				
Unit tagging	AHU-5		Date	March-12-2025	
Job name	UAMS CAMID		Time	08:21	

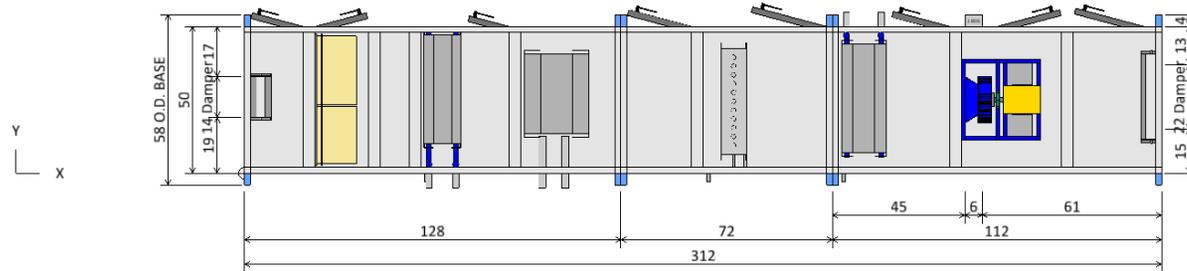
Supply fan performance is certified in accordance with the Central Station Air-Handling Unit Certification Program, which is based on AHRI Standard 430.



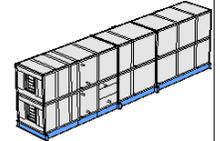
Doors on this section will be inward opening



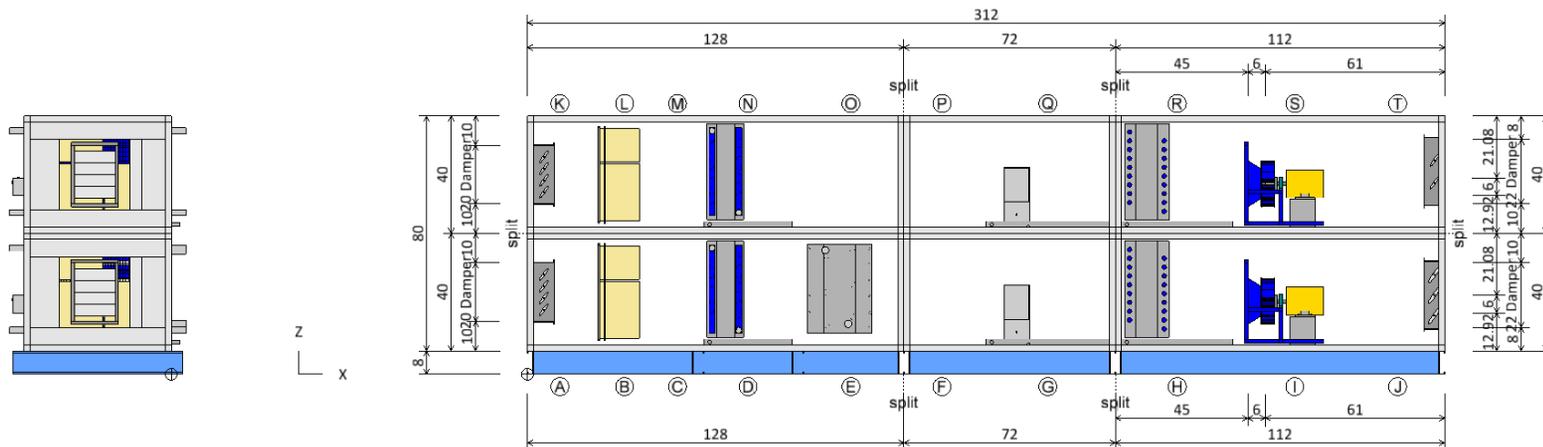
TOP DECK PLAN VIEW



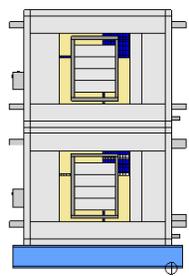
BOTTOM DECK PLAN VIEW



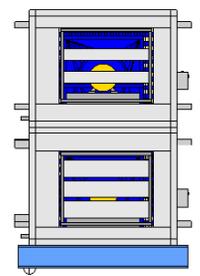
ISOMETRIC VIEW



ELEVATION VIEW



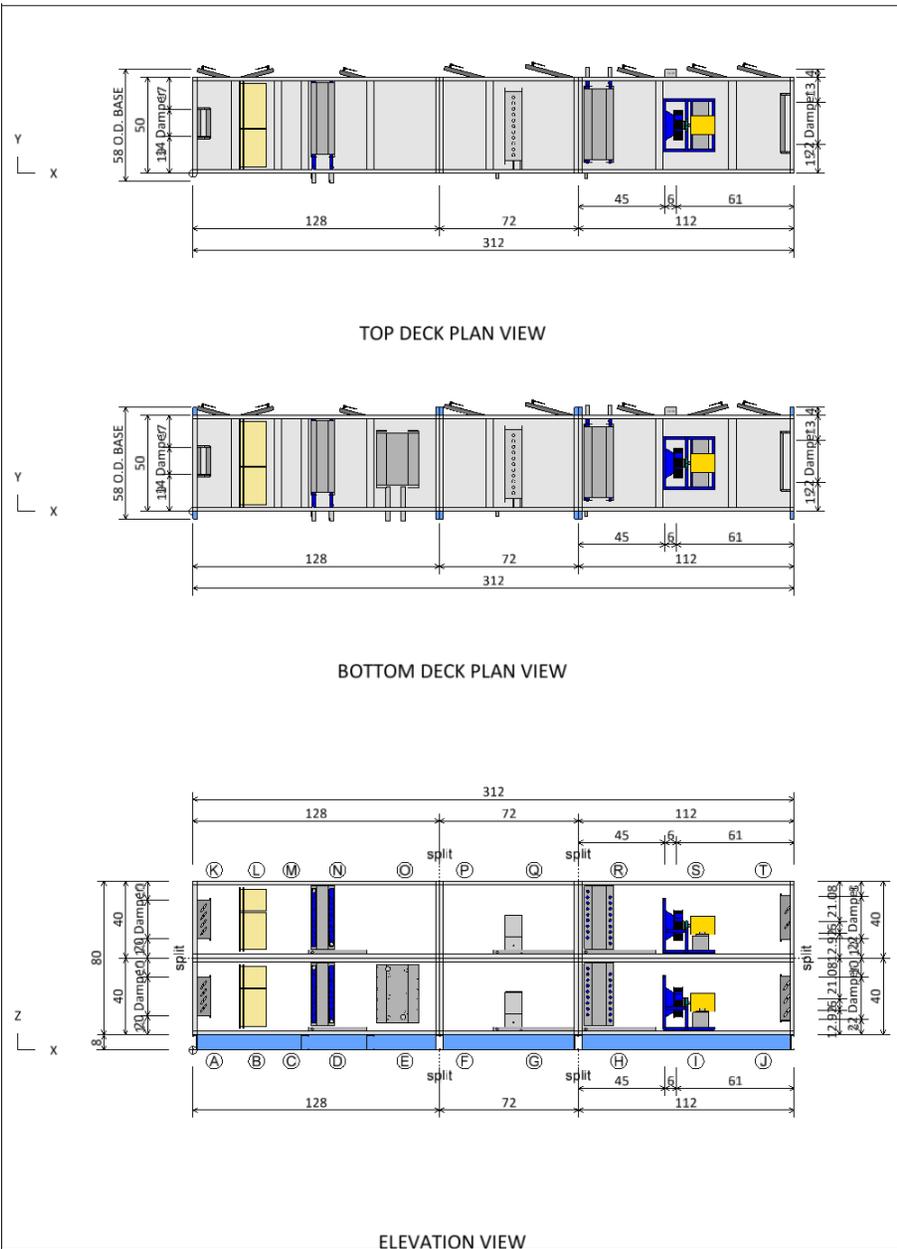
FRONT END VIEW



REAR END VIEW

<b>Product Drawing</b>		Unit Tag: AHU-5		Sales Office: Harrison Energy Partners			 13600 Industrial Park Blvd, Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 13.62
Product: Vision Air Handler		Project Name: UAMS CAMID		Sales Engineer:			
Model: CAH008GDGM	Mar. 12, 2025	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in	

All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.



Component Key

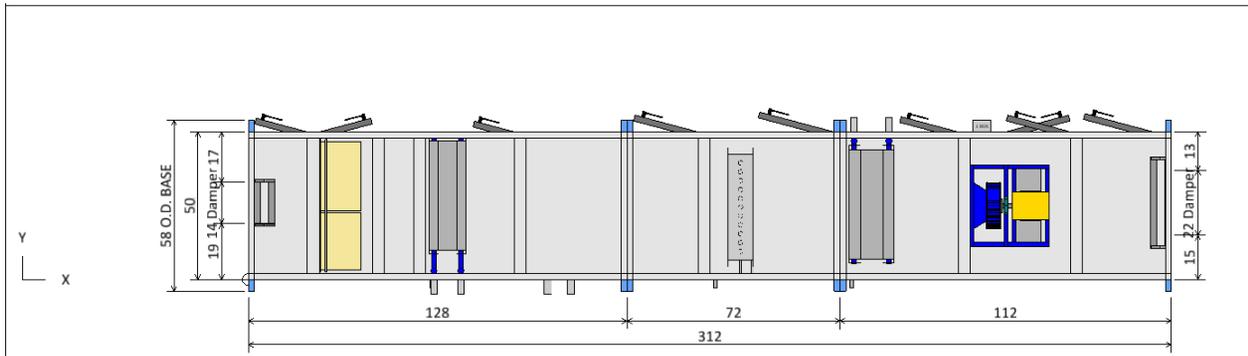
(A)	Plenum Section Left Door (WxH): 18 ins x 36 ins
(B)	Panel and Cartridge Filter Pre Filter Type: Pleated (MERV 8) Cartridge Filter Type: Varicel VXL Left Door (WxH): 18 ins x 36 ins
(C)	Access Section Chilled Water coil Coil Model: 5WS1108B Total Capacity: 44490.0 Btu/hr Left Door (WxH): 14 ins x 26 ins
(D)	Access Section Chilled Water coil Coil Model: 5WS1108B Total Capacity: 239100.0 Btu/hr
(E)	Access Section Left Door (WxH): 22 ins x 36 ins
(F)	Direct Humidifier Left Door (WxH): 26 ins x 30 ins
(G)	Chilled Water coil Coil Model: 5WL1210B Total Capacity: 323103.0 Btu/hr Left Door (WxH): 20 ins x 26 ins
(H)	Return Fan Fan Type: Centrifugal - Plenum Fan Size (Class): 16 (2) Air Flowrate: 3870.0 cfm T.S.P.: 7.9 insWg Motor Power: 10.0 HP Left Door (WxH): 22 ins x 36 ins
(I)	Plenum Section Left Door (WxH): 24 ins x 32 ins
(J)	Plenum Section Left Door (WxH): 18 ins x 36 ins
(K)	Panel and Cartridge Filter Pre Filter Type: Pleated (MERV 8) Cartridge Filter Type: Varicel VXL Left Door (WxH): 18 ins x 36 ins
(L)	Access Section Chilled Water coil Coil Model: 5WS1108B Total Capacity: 44490.0 Btu/hr Left Door (WxH): 14 ins x 26 ins
(M)	Manual Section
(N)	Access Section Left Door (WxH): 22 ins x 36 ins
(O)	Direct Humidifier Left Door (WxH): 26 ins x 30 ins
(P)	Chilled Water coil Coil Model: 5WL1210B Total Capacity: 323103.0 Btu/hr Left Door (WxH): 20 ins x 26 ins
(Q)	
(R)	

(S)	Supply Fan Fan Type: Centrifugal - Plenum Fan Size (Class): 16 (2) Air Flowrate: 3870.0 cfm T.S.P.: 8.5 insWg Motor Power: 10.0 HP Left Door (WxH): 22 ins x 36 ins
(T)	Plenum Section Left Door (WxH): 24 ins x 32 ins

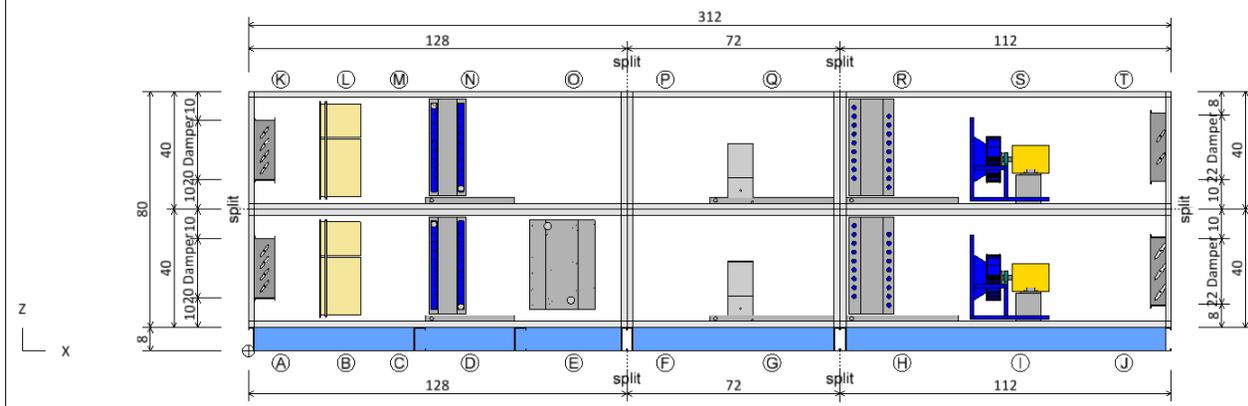
Coordinate coil connections on opposite side of unit for each unit.

<b>Product Drawing</b>		Unit Tag: AHU-5		Sales Office: Harrison Energy Partners			 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.62
Product: Vision Air Handler		Project Name: UAMS CAMID		Sales Engineer:			
Model: CAH008GDGM	Mar. 12, 2025	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in	

All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.



PLAN VIEW



ELEVATION VIEW

Component Key						
	Type	X	Y	Z	Wid	Hgt
Ⓐ	Plenum Section Fresh air damper	0.00	17.00	18.00	14.00	20.00
Ⓝ	Plenum Section Supply air damper	312.00	11.50	15.50	29.00	23.00
Ⓚ	Plenum Section Fresh air damper	0.00	17.00	58.00	14.00	20.00
Ⓣ	Plenum Section Supply air damper	312.00	11.50	57.50	29.00	23.00

Note: Dimensions are measured from the origin point.  
 Note: Openings with or without dampers are recessed into the unit by approximately 1.75 in.

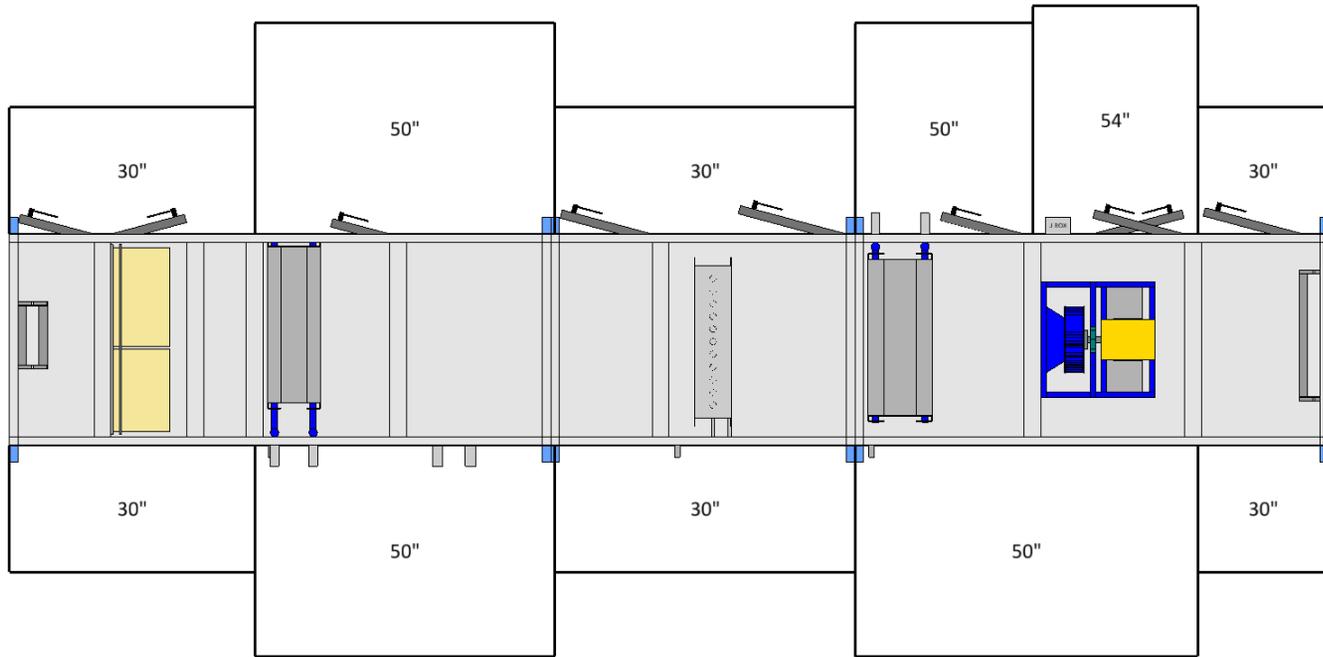
<b>Opening/Damper Connections</b>		Unit Tag: AHU-5		Sales Office: Harrison Energy Partners			 13600 Industrial Park Blvd, Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 13.62
Product: Vision Air Handler		Project Name: UAMS CAMID		Sales Engineer:			
Model: CAH008GDGM	Mar. 12, 2025	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in	

All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.

Notes

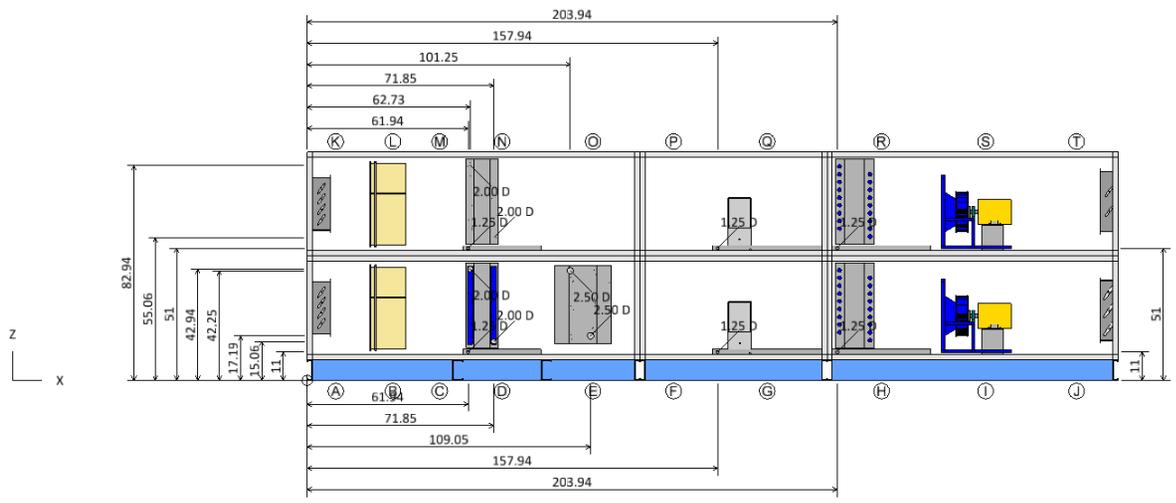
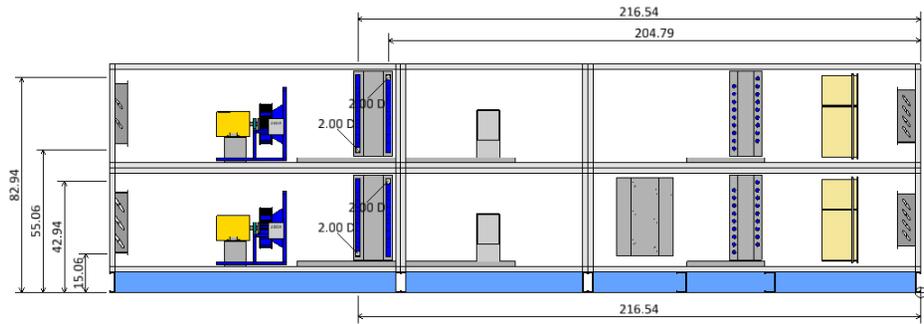
Check local electrical component service clearance codes for specific distances.

Access is only required on one side of the unit.



PLAN VIEW

<b>Service Clearance View</b>		Unit Tag: AHU-5		Sales Office: Harrison Energy Partners			 13600 Industrial Park Blvd, Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 13.62
Product: Vision Air Handler		Project Name: UAMS CAMID		Sales Engineer:			
Model: CAH008GDGM	Mar. 12, 2025	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in	
All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.							

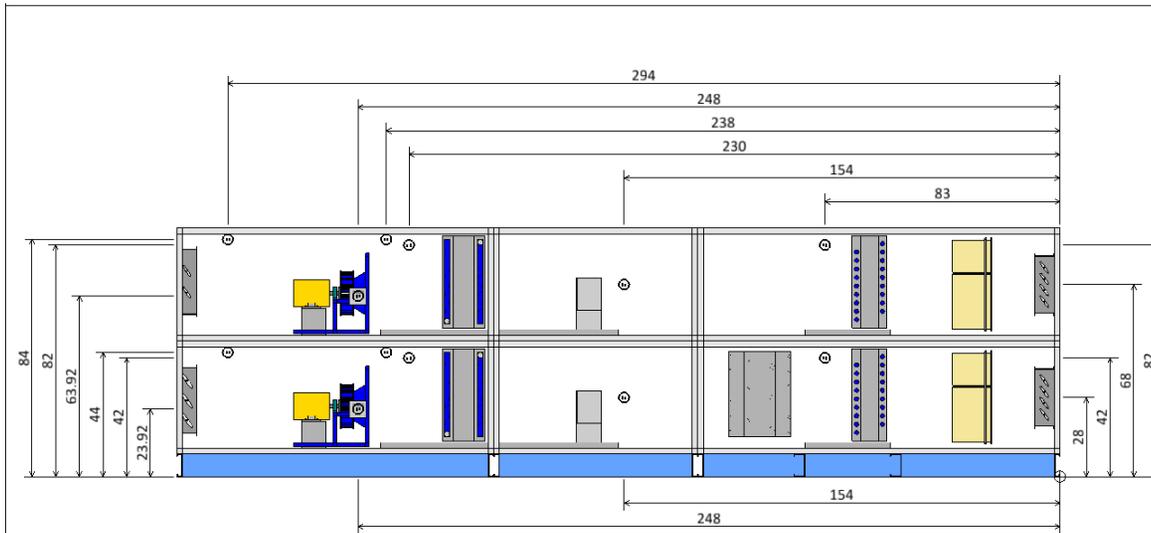


Coil and Drain Connections					
	Type	X	Y	Z	Diam
D	Chilled Water coil				
	Condensate drain conn:	61.94	-2.90	11.00	1.25
	Cold water inlet:	71.85	-5.00	15.06	2.00
	Cold water outlet:	62.73	-5.00	42.94	2.00
E	Steam Face and Bypass Coil				
	Steam inlet:	101.25	-5.00	42.25	2.50
	Steam outlet:	109.05	-5.00	17.19	2.50
G	Direct Humidifier				
	Condensate drain conn:	157.94	-2.90	11.00	1.25
H	Chilled Water coil				
	Condensate drain conn:	203.94	-2.90	11.00	1.25
	Cold water inlet:	216.54	55.00	15.06	2.00
	Cold water outlet:	204.79	55.00	42.94	2.00
N	Chilled Water coil				
	Condensate drain conn:	61.94	-2.90	51.00	1.25
	Cold water inlet:	71.85	-5.00	55.06	2.00
	Cold water outlet:	62.73	-5.00	82.94	2.00
Q	Direct Humidifier				
	Condensate drain conn:	157.94	-2.90	51.00	1.25
R	Chilled Water coil				
	Condensate drain conn:	203.94	-2.90	51.00	1.25
	Cold water inlet:	216.54	55.00	55.06	2.00
	Cold water outlet:	204.79	55.00	82.94	2.00

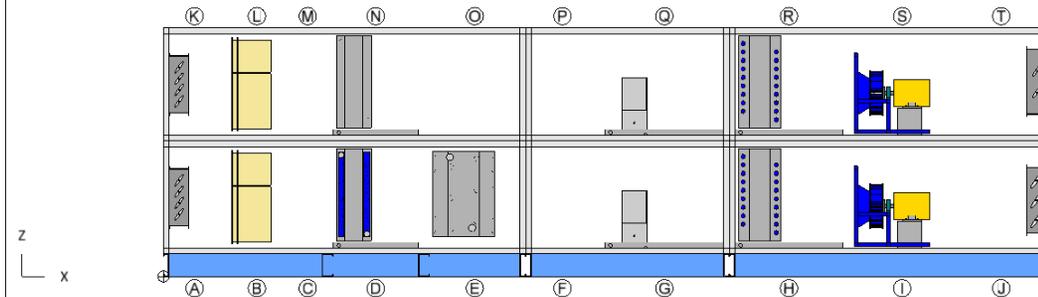
Note: Dimensions are measured from the origin point.  
 Note: Humidifier connections do not penetrate cabinetry

<b>Coil and Drain Connections</b>		Unit Tag: AHU-5		Sales Office: Harrison Energy Partners		 13600 Industrial Park Blvd, Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 13.62
Product: Vision Air Handler		Project Name: UAMS CAMID		Sales Engineer:		
Model: CAH008GDGM	Mar. 12, 2025	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	

All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.



LEFT ELEVATION VIEW



RIGHT ELEVATION VIEW

Component Key						
	Type	X	Y	Z	Volts	Phase
Ⓓ	Chilled Water coil LED Marine Light	83.00	50.00	42.00	110	1
Ⓕ	Access Section LED Marine Light GFI	154.00	50.00	28.00	110	1
Ⓗ	Chilled Water coil LED Marine Light UVC Light	230.00	50.00	42.00	110	1
		238.00	48.00	44.00	115	1
Ⓘ	Return Fan Fan	248.00	50.00	23.92	460	3
Ⓙ	Plenum Section LED Marine Light	294.00	50.00	44.00	110	1
Ⓝ	Chilled Water coil LED Marine Light	83.00	50.00	82.00	110	1
Ⓟ	Access Section LED Marine Light GFI	154.00	50.00	68.00	110	1
Ⓡ	Chilled Water coil LED Marine Light UVC Light	230.00	50.00	82.00	110	1
		238.00	48.00	84.00	115	1
Ⓢ	Supply Fan Fan	248.00	50.00	63.92	460	3
Ⓣ	Plenum Section LED Marine Light	294.00	50.00	84.00	110	1

Note: Dimensions are measured from the origin point.

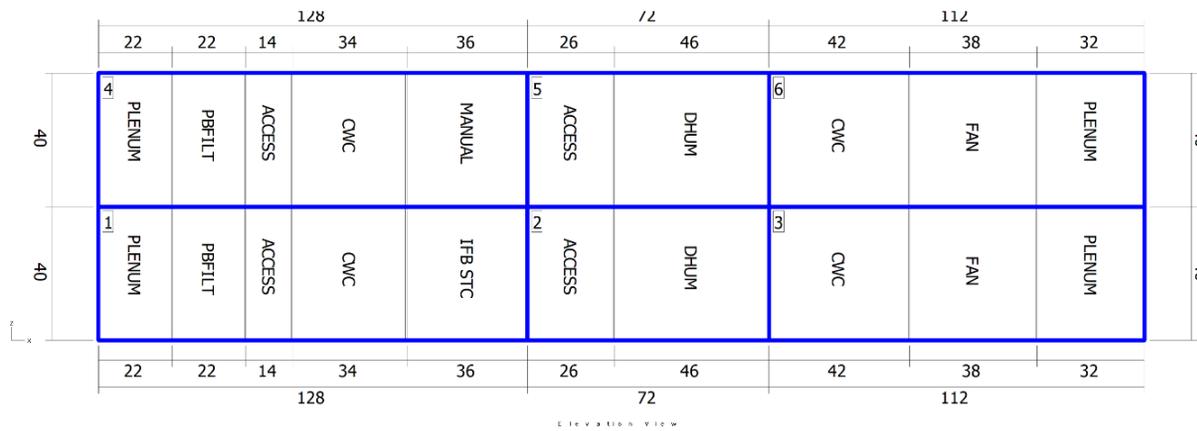
<b>Electrical Connections</b>		Unit Tag: AHU-5		Sales Office: Harrison Energy Partners			 13600 Industrial Park Blvd, Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 13.62
Product: Vision Air Handler		Project Name: UAMS CAMID		Sales Engineer:			
Model: CAH008GDGM	Mar. 12, 2025	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in	

All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.

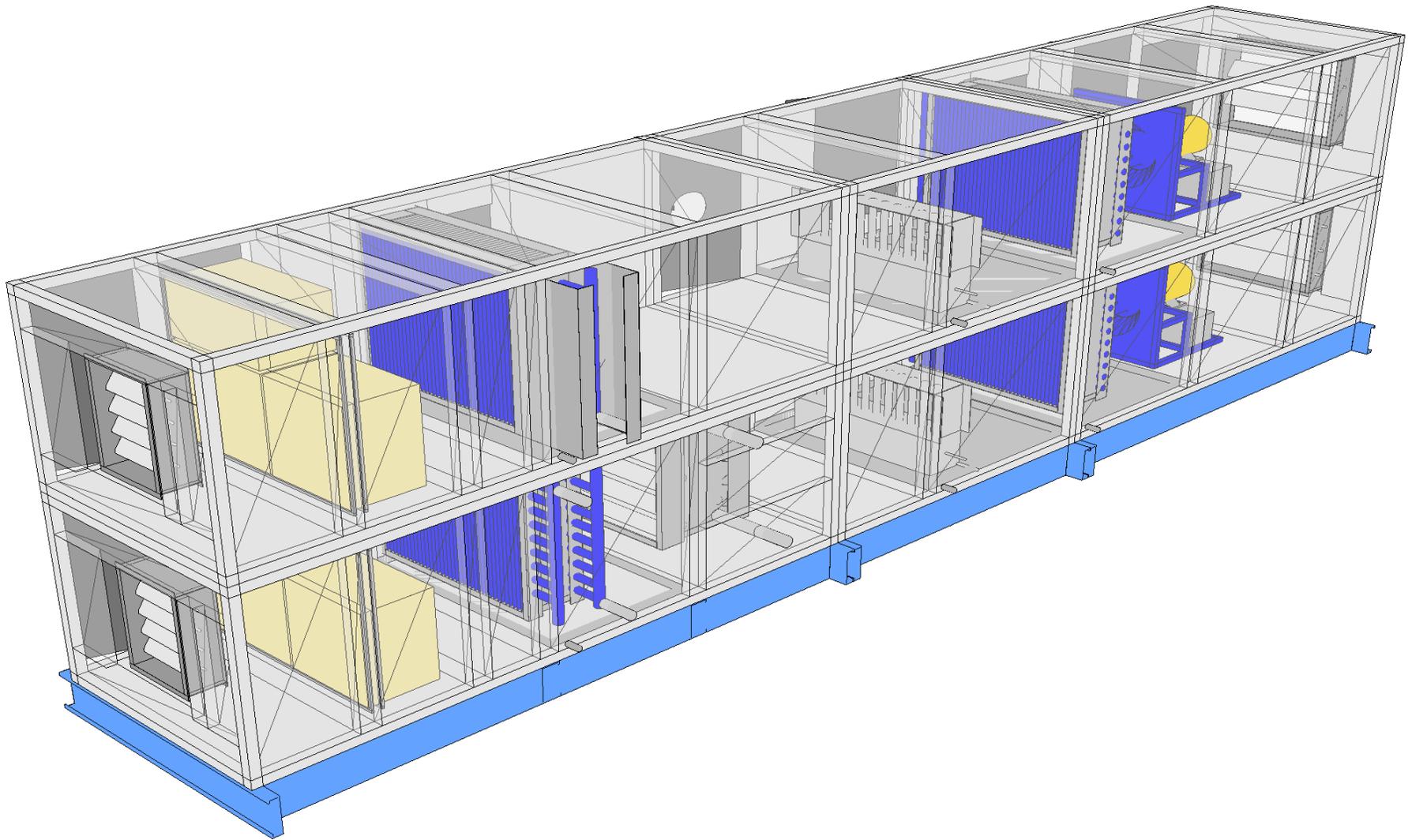
Shipping Sections

Section	Weight (lb)	X	Y	Z
Section 1	1744.62	128	50	40
Section 2	509.68	72	50	40
Section 3	1582.67	112	50	40
Section 4	1245.91	128	50	40
Section 5	420.78	72	50	40
Section 6	1395.36	112	50	40
Total Unit	6899.01	312	50	80

Note: Base rails, curb ready base, coil connectors, drain connectors, and control boxes not included in height X, Y, Z dimensions. Shipping section may be 2" longer in air flow direction due to internal splice joint.

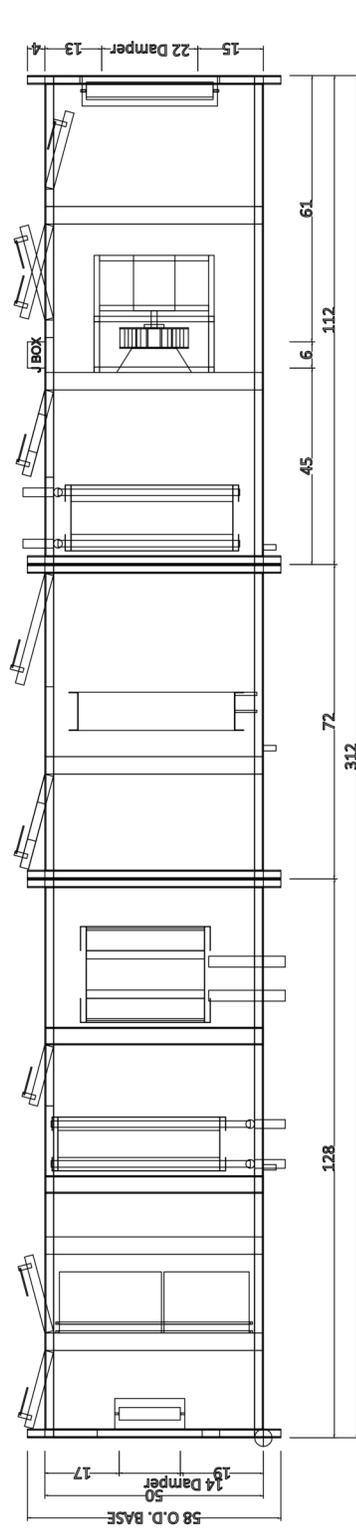


<b>Shipping Sections</b>		Unit Tag: AHU-5		Sales Office: Harrison Energy Partners			 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com    Software Version: 13.62
Product: Vision Air Handler		Project Name: UAMS CAMID		Sales Engineer:			
Model: CAH008GDGM	Mar. 12, 2025	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in	
All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.							

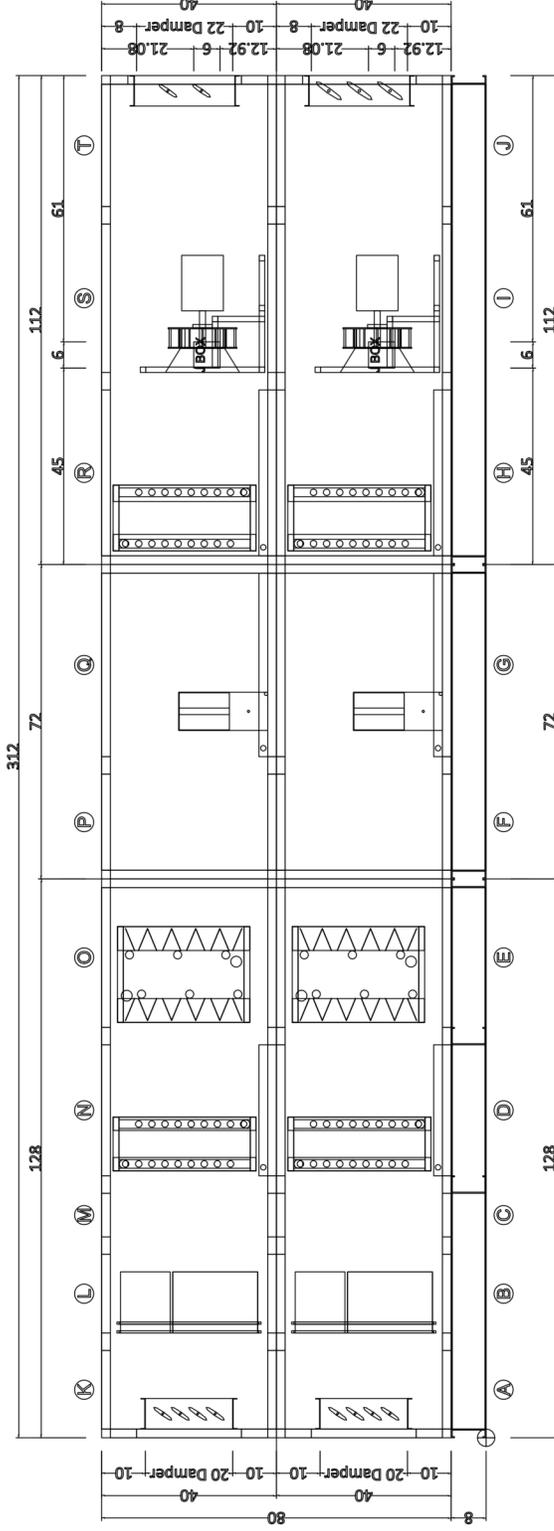


<b>Product Drawing</b>		Unit Tag: AHU-5		Sales Office: Harrison Energy Partners			 13600 Industrial Park Blvd, Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 13.62
Product: Vision Air Handler		Project Name: UAMS CAMID		Sales Engineer:			
Model: CAH008GDGM	Mar. 12, 2025	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in	
All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.							

AHU-5 drawing with inward opening doors shown on plenum sections and IFB coil shown on top section



PLAN VIEW



ELEVATION VIEW

Component Key	
(A)	Plenum Section Left Door (WxH): 18 ins x 36 ins
(B)	Panel and Cartridge Filter Pre Filter Type: Pleated (MERV 8) Cartridge Filter Type: Varicel VXL Left Door (WxH): 18 ins x 36 ins
(C)	Access Section Chilled Water coil Coil Model: 5WS1108B Total Capacity: 44490.0 Btu/hr Left Door (WxH): 14 ins x 26 ins
(D)	Access Section Steam Face and Bypass Coil Total Capacity: 239100.0 Btu/hr
(E)	Access Section Left Door (WxH): 22 ins x 36 ins
(F)	Direct Humidifier Left Door (WxH): 26 ins x 30 ins
(G)	Chilled Water coil Coil Model: 5WL1210B Total Capacity: 323103.0 Btu/hr Left Door (WxH): 20 ins x 26 ins
(H)	Return Fan Fan Type: Centrifugal - Plenum Fan Size (Class): 16 (2) Air Flowrate: 3870.0 cfm T.S.P.: 7.9 insWg Motor Power: 10.0 HP Left Door (WxH): 22 ins x 36 ins
(I)	Plenum Section Left Door (WxH): 18 ins x 32 ins
(J)	Plenum Section Left Door (WxH): 18 ins x 36 ins
(K)	Panel and Cartridge Filter Pre Filter Type: Pleated (MERV 8) Cartridge Filter Type: Varicel VXL Left Door (WxH): 18 ins x 36 ins
(L)	Access Section Chilled Water coil Coil Model: 5WS1108B Total Capacity: 44490.0 Btu/hr Left Door (WxH): 14 ins x 26 ins
(M)	Manual Section
(N)	Access Section Left Door (WxH): 22 ins x 36 ins
(O)	Direct Humidifier Chilled Water coil Coil Model: 5WL1210B Total Capacity: 323103.0 Btu/hr Left Door (WxH): 20 ins x 26 ins
(P)	Supply Fan Fan Type: Centrifugal - Plenum Fan Size (Class): 16 (2) Air Flowrate: 3870.0 cfm T.S.P.: 8.5 insWg Motor Power: 10.0 HP Left Door (WxH): 22 ins x 36 ins
(Q)	Plenum Section Left Door (WxH): 18 ins x 32 ins
(R)	Plenum Section Left Door (WxH): 18 ins x 36 ins
(S)	Access Section Chilled Water coil Coil Model: 5WS1108B Total Capacity: 44490.0 Btu/hr Left Door (WxH): 14 ins x 26 ins
(T)	Manual Section

**DAIKIN**  
 13600 Industrial Park Blvd, Minneapolis, MN 55441  
 www.DaikinApplied.com Software Version: 13.62

<b>Plan/Elevation - No Ends</b>	Unit Tag: AHU-5	Sales Office: Harrison Energy Partners
Product: Vision Air Handler	Project Name: UAMS CAMID	Sales Engineer:
Model: CAH008GDGM	Mar. 10, 2025 Ver/Rev: A	Sheet: 1 of 1
	Scale: NTS	Tolerance: +/-0.25"
		Dwg Units: in

All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.

## AHU-2 Heat Recovery Coil Heating Data

Coil Overview					
Model Number	Application	Total Capacity Btu/hr	Air Flow CFM	Fin Height in	Fin Length in
5WS0910B	Hot Water coil	647558	26000	33	125.00

Performance (Per Coil Bank)					
Air Flow CFM		Altitude ft		Face Area ft <sup>2</sup>	
26000		0		57.3	
Total Capacity Btu/hr	Temperature				Air Pressure Drop inH <sub>2</sub> O
	Entering		Leaving		
	Air Dry Bulb °F	Water °F	Air Dry Bulb °F	Water °F	
647558	17.6	54.4	40.4	29.3	0.75
Fluid					
Volume gal	Flow rate gpm	Velocity ft/s	Type	Glycol Concentration %	
70.00	54.0	1.5	Propylene	30.0	
Hot Water Fouling Factor:		0.0000			

## AHU-5 Heat Recovery Coil Heating Data

Coil Overview					
Model Number	Application	Total Capacity Btu/hr	Air Flow CFM	Fin Height in	Fin Length in
5WS1108B	Hot Water coil	94175	3225	30	37.00

Performance					
Air Flow CFM		Altitude ft		Face Area ft <sup>2</sup>	
3225		0		7.7	
Total Capacity Btu/hr	Temperature				Air Pressure Drop inH <sub>2</sub> O
	Entering		Leaving		
	Air Dry Bulb °F	Water °F	Air Dry Bulb °F	Water °F	
94175	17.6	47.6	44.3	42.7	0.61
Fluid					
Volume gal	Flow rate gpm	Velocity ft/s	Type	Glycol Concentration %	
9.00	40.0	2.4	Propylene	30.0	
Hot Water Fouling Factor:		0.0000			



## UVRReport™ – Multi-Purpose UV-C Radiometric Monitor

### BENEFITS

- Large 1/2-in. direct digital LCD display
- Simple sensor installation; up to 100 feet away
- Exclusive integral lamp-life timer
- One-button reset for instant calibration
- Digital display of lamp output performance and runtime
- Additional lamp output status indicators in green, yellow and red LEDs
- Normally closed (NC) / normally open (NO) relays for lights, alarms, or signals
- Convenient RJ-11 (telephone plug) cabling
- 24-VAC power options:
  - Hardwire terminal
  - Adaptor jack

*The UVRReport™ UV-C radiometric monitor is the first affordable, multi-functional UV monitor available for UV-C lamp installations in HVAC systems. It features an exclusive resettable timer to display lamp run-time hours and it monitors UV lamp performance from initial installation to lamp change-out. In addition to the ½-inch-high digital display, UVRReport also provides green, yellow and red LED indicator lights to alert operators of go / no-go lamp status. The digital readout displays can toggle between the percentage of “initial” lamp output or lamp run-time using a simple pushbutton. The UVRReport monitor also provides NO/NC (5-Amp) relay switching to permit remote operation of alarms, lamps, and other devices, or to provide a signal to a building management system when lamp performance drops below 50%.*

### Application

The UVRReport sensor is typically installed facing the lamps, from a distance of 3 to 10 inches. The monitor can be mounted up to 100 ft away from the sensor—in temperatures of 122°F (50°C) or less and a relative humidity of not more than 90%. An 8 foot high-performance sensor cable with male RJ-11 plugs is included. The monitor is equipped with a 24-VAC terminal block and includes a jack for a 24-VAC adaptor (not included). An integral NO/NC relay terminal block provides for 5-Amp switching of alarms, indicator lamps, or for controlling other devices. The relay can also be used to signal building operators through the use of a building management system.

REPRESENTED BY:

# UVR

## UV RESOURCES

### Corporate Office

P.O. Box 800370

Santa Clarita, CA 91380-0370

Phone 877.UV4.HVAC (884-4822)

Fax 877.794.1294

Website [www.UVRresources.com](http://www.UVRresources.com)

## SPECIFICATIONS

The *UVReport™* is factory assembled and tested. It consists of a housing, LCD readout, LED indicator lights, pushbutton display toggle, pushbutton reset, NC/NO hardwire terminal block, 24-VAC adaptor jack, 24-VAC power jack, RJ-11 sensor cable jack, and an 8-foot sensor cable with male RJ-11 plugs on each end.

**HOUSING** – The *UVReport* housing is constructed of high performance industrial grade plastic impregnated with carbon-black for structural integrity and UV-C exposure resistance. Mounting holes facilitate easy installation.

**LCD READOUT** – Highly visible 1/2-inch high numbers provide a direct-digital indication of lamp performance in percent of rated output and real-time hours of lamp operation.

**RESET** – Pushbutton reset at lamp change-out sets the lamp performance value to 100% and the lamp-life timer to zero (0) hours.

**DISPLAY SWITCH** – Toggles the LCD readout between lamp performance in percent of rated output or real-time hours of lamp operation.

**LED INDICATORS** – Green, yellow and red LED status lights indicate measured lamp performance as >70% output, 50% to 70% output, and 50% output or below, respectively.

**SENSOR JACK** – A female RJ-11 jack accommodates the male RJ-11 sensor plug and cable.

**TERMINAL BLOCK** – The terminal block features screw-down electrical clamping for NO, NC and C (common), and 24-VAC power-in connections using solid or stranded wire.

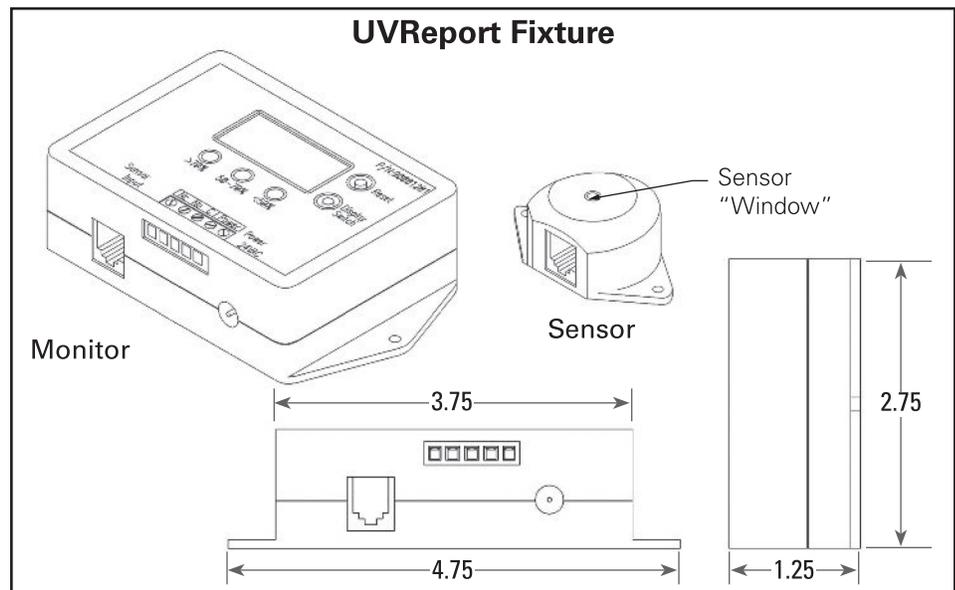
**SENSOR CABLE** – The cable is carbon-black impregnated 26-AWG, 4-wire line, rated at 300-VDC in temperatures up to 122°F (50°C). It is 8-ft in length and has male RJ-11 plugs on each end.

**UV SENSOR** – The sensor is constructed of high performance industrial grade plastic impregnated with carbon-black for structural integrity and the ability to withstand exposure to UV-C energy. It is equipped with a female RJ-11 jack, two mounting holes, and includes

mounting screws. It detects and converts UV-C energy of 240–400 nm to an electric signal that is translated by the monitor into a digital readout of “percent output” on the LCD display and drives the indicator LEDs.

**MONITOR DIMENSIONS** – 4.75-in. L x 2.75-in. W x 1.25-in. D.

**LCD DISPLAY** – UV-C relative irradiance value in percent and UV lamp run-time in hours.



## ORDERING INFORMATION

Model #	P/N	Description	Electrical	Weight
UVR-24V UVM	90001201	UVReport™ UV-C Monitor – 24 VAC with Sensor	24 VAC 50 Hz/60 Hz	0.25 lbs

The UVR website contains tools that let you select, specify, and/or purchase complete UV-C systems. You'll also find valuable content that will help simplify installation, operation, and maintenance of UV-C systems. For more information, go to [www.uvrresources.com](http://www.uvrresources.com)

Specifications subject to change without notice.

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