



SUBMITTAL FOR APPROVAL

December 21, 2022



TAG: AHU-1 THRU AHU-3

Prepared For:



SUBMITTAL DATA

Job Name

For

Sold To

Prepared For

Customer PO#

Prepared By

Date

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Daikin Section Divider



Job Information		Technical Data Sheet
Job Name		
Date		
Submitted By		
Software Version	13.02	
Unit Tag	AHU-1 (12-21-2022)	



Unit Overview						
Model Number	Air Volume cfm	Supply				
		Static Pressure		External Dimensions		
		External inWc	Total inWc	Height in	Width in	Length in
CAC027GBAM	12500	1.00	0.00	44*	120*	106

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

Unit			
Model Number:	CAC027GBAM		
Approval:	ETL Listed / ETL Listed to Canadian Safety Standards (ETL Label / ETLc Label)		
Outer Panel:	24 gauge G90 Galvanized Steel (unpainted)		
Liner:	24 gauge Galvanized Steel (unless noted per section)		
Insulation:	R-13 Injected Foam		
Unit Configuration:	Inline horizontal	Drive (Handling) Location:	Left
Base:	6" formed channel	Wall Thickness:	2 in
Shipping Stretch Wrap:	Yes	Altitude:	0 ft
Parts Warranty:	Standard One Year		

Combination Filter			Component: 1			Length: 16 in			Shipping Section: 1		
Access			Face Velocity			Face Area			Air Volume		
Side			486 ft/min			25.7 ft²			12500 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	0.22 inWc	0.61 inWc	1.00 inWc	N/A	4	24 in	24 in	2 in	
							1	24 in	20 in	2 in	
							4	12 in	24 in	2 in	
Filter	Future filter - Flat	-	0.60 inWc	0.60 inWc	0.60 inWc	N/A	4	24 in	24 in	4 in	
							1	24 in	20 in	4 in	
							4	12 in	24 in	4 in	
Door											
Location			Width				Opening				
Drive side			12 in				Outward				

AHU-1 (12-21-2022)

Technical Data Sheet

Direct Expansion Coil		Component: 2		Length: 28 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)						
5EJ0608B	422627 Btu/hr	309112 Btu/hr	1	8	6	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				
12500 cfm	75.0 °F	62.5 °F	52.4 °F	50.6 °F	0.83 insWg	33 in	107 in	24.52 ft²	510 ft/min				
Fluid			Sub-Cooled Refrigerant Liquid Temp.	Suction Vapor Superheat Temp. at Coil Outlet	Design Saturated Condensing Temp.	Total Refrigerant Weight							
Suction Temp.	Refrigerant												
42.4 °F		R410a		110.0 °F		8.0 °F		110.0 °F		101.00 lb			
Connection [Data Per Coil]								Min. Fin Surface Temp.	Min. Tube Wall Surface Temp.				
Type	Liquid [Qty - Size]		Suction [Qty - Size]		Location	Material							
OD Sweat		2-1.38 in		2-1.63 in		Drive side		Copper tube		32.0 °F		32.0 °F	
Material								Drain Pan		Drain Side			
Fin		Tube		Header		Case							
Aluminum .0075 in		Copper .020 in		Copper		Galv. steel		Stainless steel		Drive side			

Total Refrigerant Weight is the total for all circuits of all coils in this coil section and is estimated. Refer to the AHU and Condensing Unit IOMs for recommendations on system start-up.

Minimum allowable face velocity = 150 fpm

AHRI 410 Certification

Coil is NOT certified by AHRI

Door

Location	Width	Opening
Drive side	8 in	Outward

Access Section	Component: 3	Length: 22 in	Shipping Section: 1
Air Pressure Drop			
0.00 inWc			
Door			
Location	Width	Opening	Light
Drive side	18 in	Outward	LED marine light kit and switch only

Access Section	Component: 4	Length: 20 in	Shipping Section: 1
Air Pressure Drop			
0.00 inWc			
Door			
Location	Width	Opening	Light
Drive side	12 in	Outward	LED marine light kit and switch only

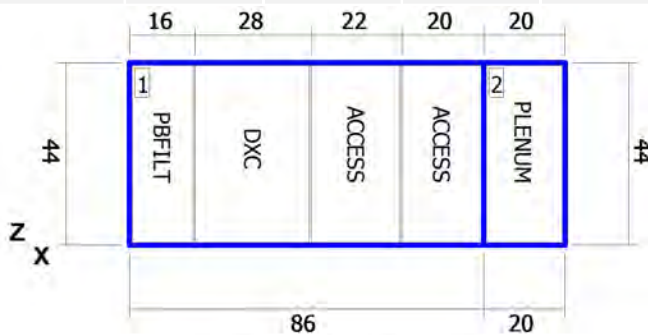
Plenum Section		Component: 5		Length: 20 in		Shipping Section: 2	
Air Pressure Drop							
0.01 inWc							
Custom Openings							
Custom Opening	Location		Width	Height		Rainhood w/ Screen	
1	End		116 in	40 in		None	
Door							
Location		Width		Opening		Light	
Drive side		12 in		Outward		LED marine light kit and switch only	

Unit Sound Power (dB)

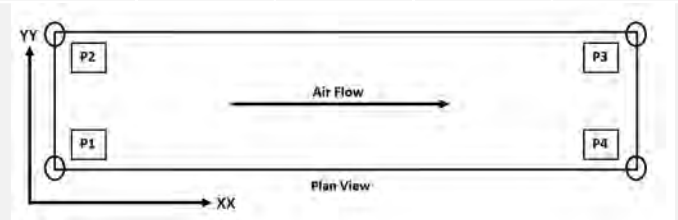
Type	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Radiated:	64	54	48	41	39	41	46	51
Unit Discharge:	64	54	48	41	39	41	46	51
Unit Return:	64	54	48	41	39	41	46	51

Shipping Section Details

Section	Length in	Weight lb	Corner Weights (lb)				Center of Gravity (in)		
			P1	P2	P3	P4	XX	YY	ZZ
1	86	1880	539	554	401	386	36	61	24
2	20	371	93	93	93	93	10	60	18
Entire Unit	106	2251	631	645	495	480	46	61	23



Elevation View



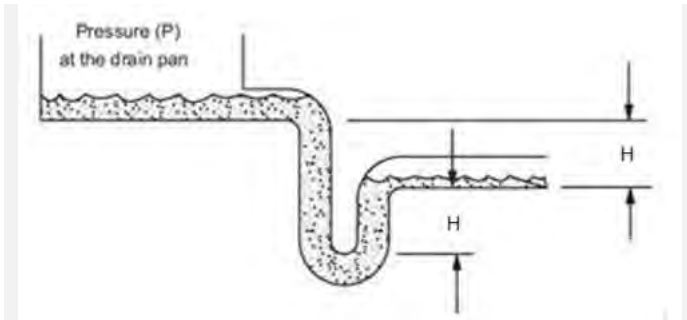
NOTE: Special components aren't included in the corner weights and center of gravity data.

Supply Static Pressure Drop

Component	Option	Static Pressure Drop
Panel and Bag Filter	Panel and Bag Filter	0.82 insWg
DX Coil	DX Coil	0.83 insWg
Access Section	Access Section	
Access Section	Access Section	
Plenum Section	Plenum Section	0.01 insWg
External Static	External Static	1.00 insWg
Total Supply Fan Static		

Minimum Recommended Drain Pan Trap Dimensions

Shipping Section	Component	H
1	DX Coil	3.80



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.

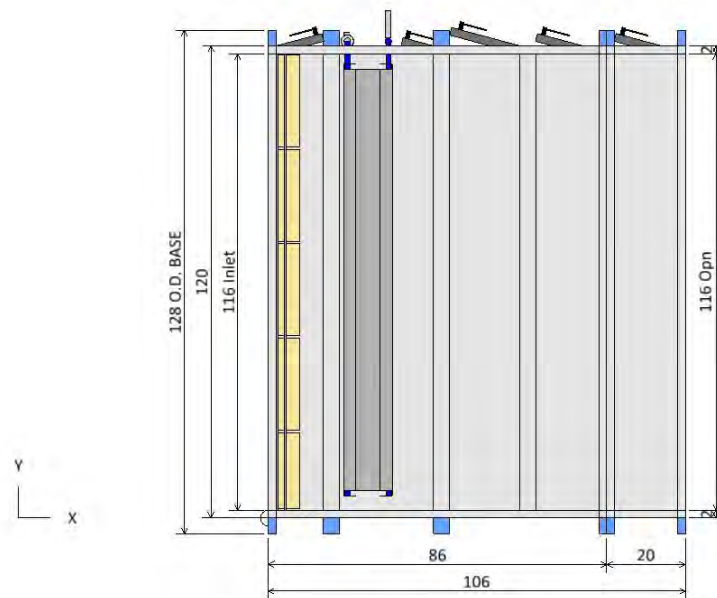
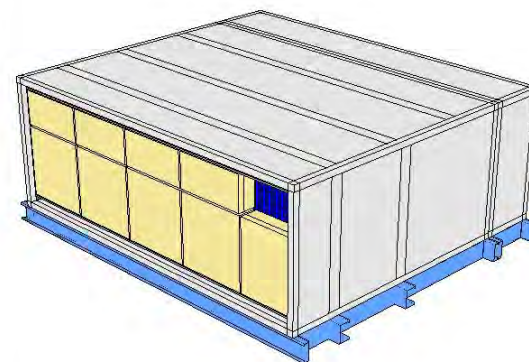
AHRI Certification

The air-handler is selected outside of the scope of AHRI Standard 430/431

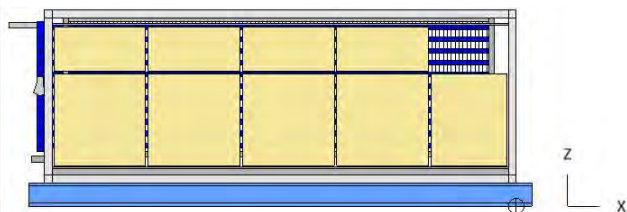
Notes

Standard

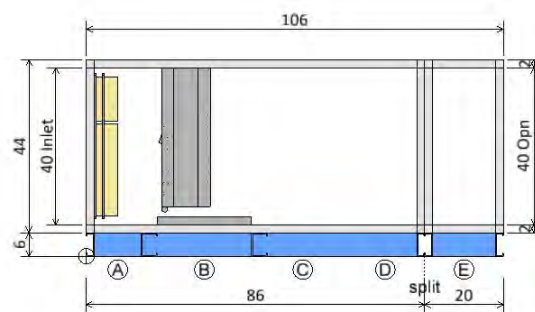
1. As a standalone component, unit meets or exceeds requirements of ASHRAE 90.1 - 2007. The approving authority is responsible for compliance of multi - component building systems.
2. Note: Final filter media not provided by Daikin Applied, quantity and size data is for informational purposes only.



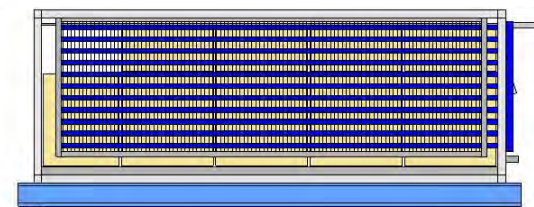
PLAN VIEW



FRONT END VIEW

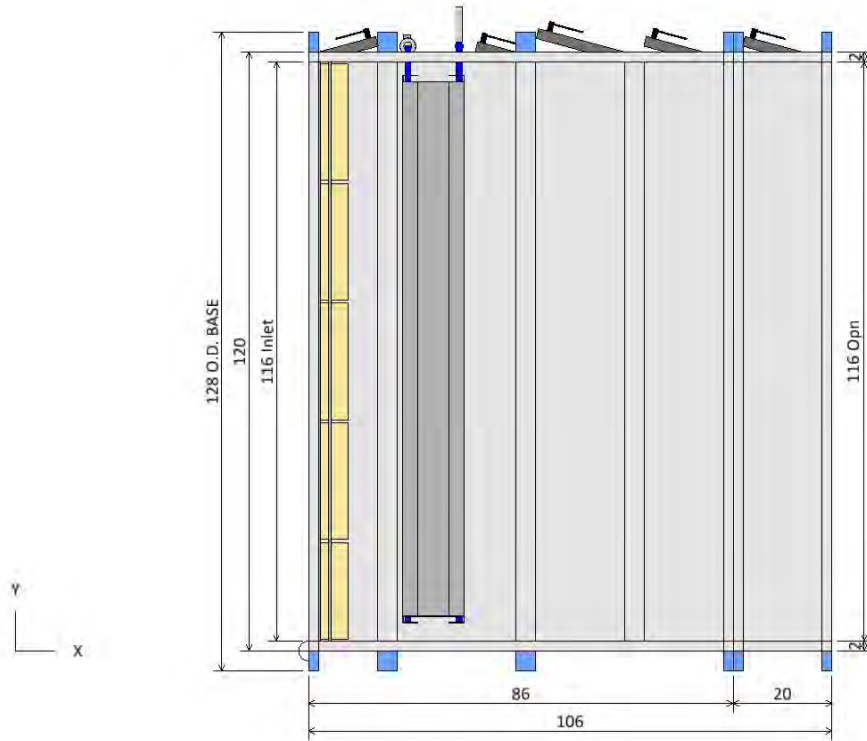


ELEVATION VIEW

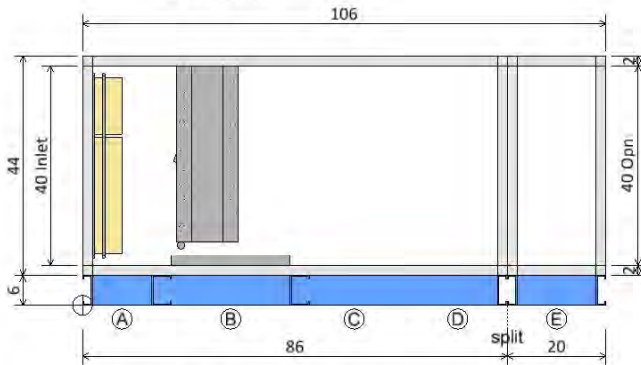


REAR END VIEW

Plan/Elevation			Unit Tag: AHU-1 (12-21-2022)			Sales Office:			 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.03
Product: Vision Air Handler			Project Name			Sales Engineer:			
Model: CAC027GBAM			Dec. 28, 2022	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

Panel and Bag Filter	
① Pre Filter Type:	Pleated (MERV 8)
Bag Filter Type:	Future Flat
Left Door (WxH):	12 ins x 40 ins
DX Coil	
② Coil Model:	5EJ0608B
Total Capacity:	422627.0 Btu/hr
Left Door (WxH):	8 ins x 32 ins
Access Section	
③ Left Door (WxH):	18 ins x 40 ins
Access Section	
④ Left Door (WxH):	12 ins x 40 ins
Plenum Section	
⑤ Left Door (WxH):	12 ins x 40 ins

AHU-1 (12-21-2022)

Drawing

Plan/Elevation - No Ends

Product: Vision Air Handler

Model: CAC027GBAM

Unit Tag: AHU-1 (12-21-2022)

Project Name

Dec. 28, 2022

Ver/Rev:

Sheet: 1 of 1

Sales Office:

Sales Engineer:

Scale: NTS

Tolerance: +/-0.25"

Dwg Units: in



13600 Industrial Park Blvd, Minneapolis, MN 55441
www.DaikinApplied.com Software Version: 13.03

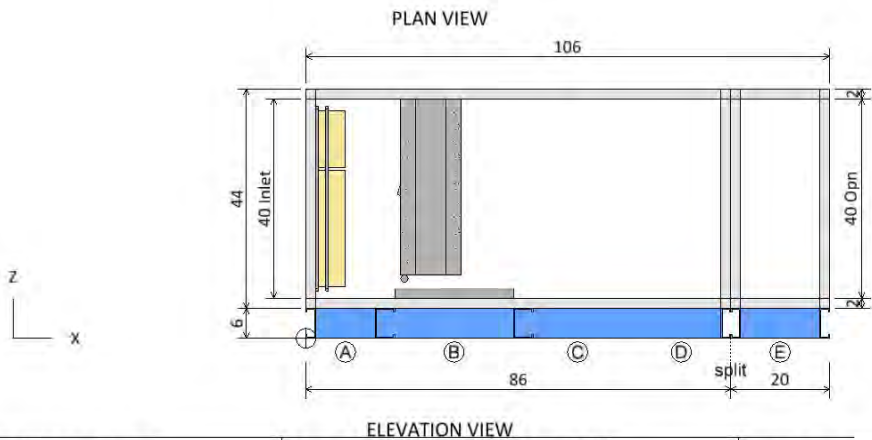
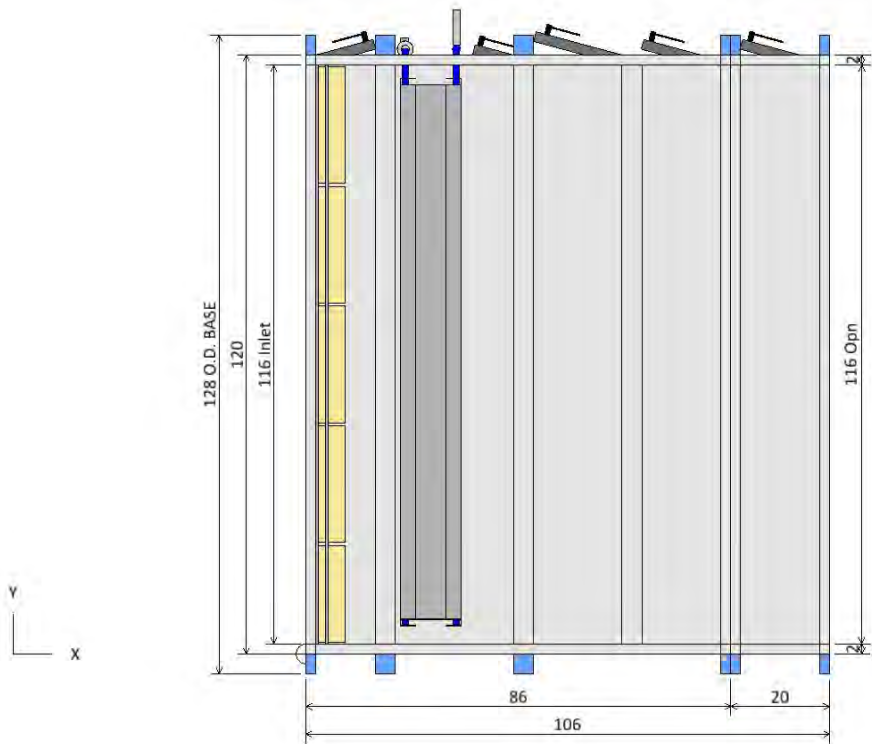
All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.

BYBUTD

ZY Lab

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12/21/2022



Component Key

Type	X	Y	Z	Wid	Hgt
Ⓐ Panel and Bag Filter Opening	0.00	2.00	8.00	116.00	40.00
Ⓔ Plenum Section Opening	106.00	2.00	8.00	116.00	40.00

Note: Dimensions are measured from the origin point.

AHU-1 (12-21-2022)

Drawing

Opening/Damper Connections

Product: Vision Air Handler

Model: CAC027GBAM

Unit Tag: AHU-1 (12-21-2022)

Project Name:

Dec. 28, 2022

Ver/Rev:

Sheet: 1 of 1

Sales Office:

Sales Engineer:

Scale: NTS

Tolerance: +/-0.25"

Dwg Units: in



13600 Industrial Park Blvd, Minneapolis, MN 55441
www.DaikinApplied.com Software Version: 13.03

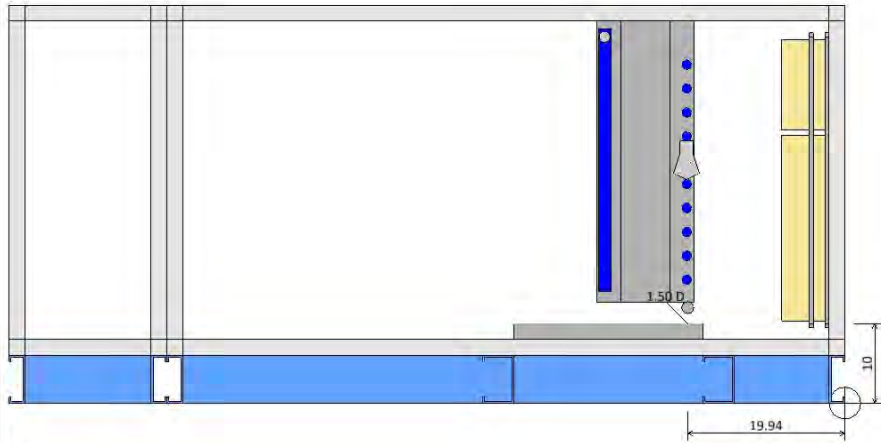
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BYBU7D

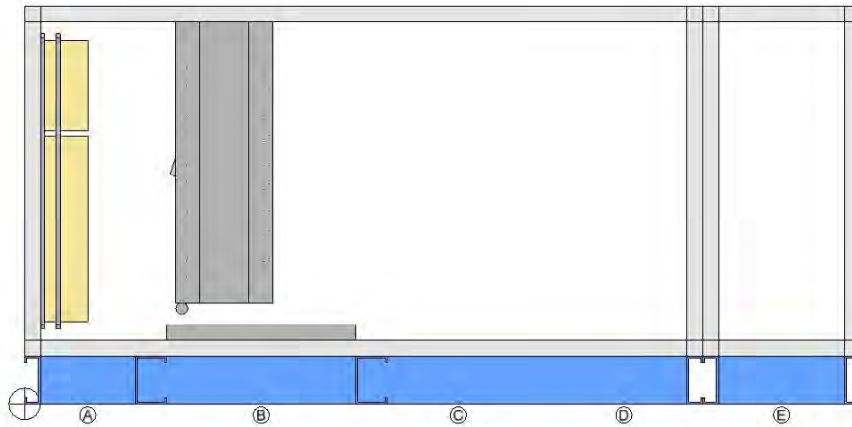
ZY Lab

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12/21/2022



LEFT ELEVATION VIEW



RIGHT ELEVATION VIEW

Coil and Drain Connections

Type	X	Y	Z	Diam
DX Coil				
Condensate drain conn:	19.94	121.40	12.00	1.50
DX suction:	TBD	TBD	TBD	2- 1.63
DX liquid conn:	TBD	TBD	TBD	2- 1.38

Note: Dimensions are measured from the origin point.

AHU-1 (12-21-2022)

Drawing

Coil and Drain Connections

Product: Vision Air Handler

Model: CAC027GBAM

Unit Tag: AHU-1 (12-21-2022)

Project Name:

Dec. 28, 2022

Ver/Rev:

Sheet: 1 of 1

Sales Office:

Sales Engineer:

Scale: NTS

Tolerance: +/-0.25"

Dwg Units: in



13600 Industrial Park Blvd, Minneapolis, MN 55441
www.DaikinApplied.com Software Version: 13.03

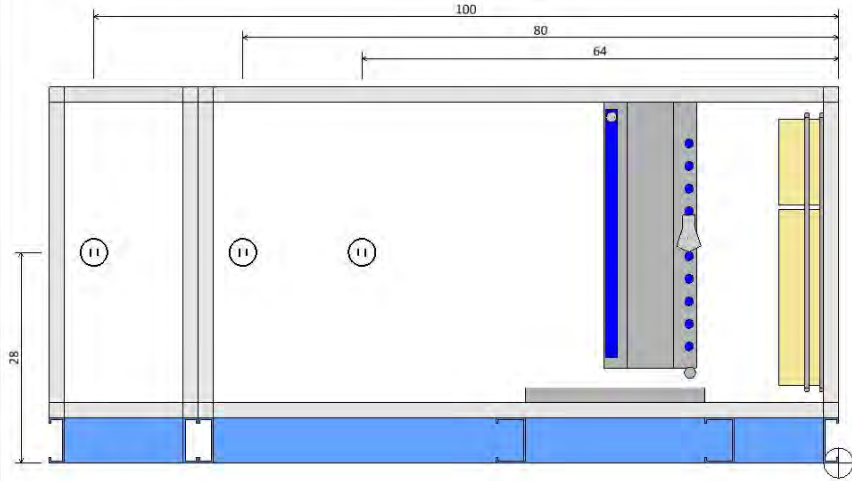
All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.

BYBU7D

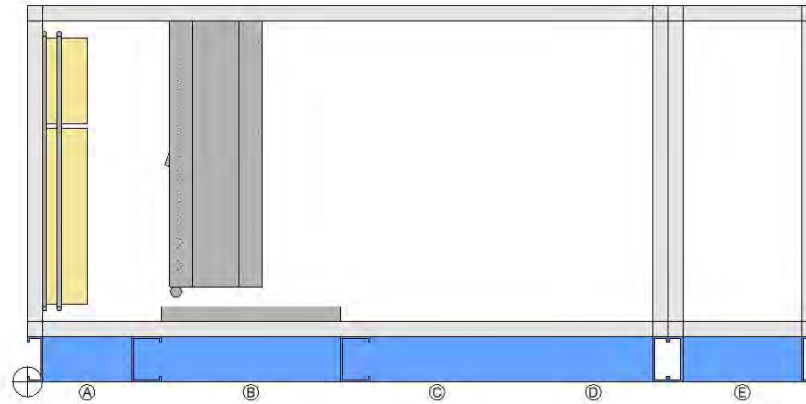
ZY Lab

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12/21/2022



LEFT ELEVATION VIEW



RIGHT ELEVATION VIEW

Component Key						
	Type	X	Y	Z	Volts	Phase
Ⓒ	Access Section LED Marine Light	64.00	120.00	28.00	110	1
Ⓓ	Access Section LED Marine Light	80.00	120.00	28.00	110	1
Ⓔ	Plenum Section LED Marine Light	100.00	120.00	28.00	110	1

Note: Dimensions are measured from the origin point.

Electrical Connections

Product: Vision Air Handler

Model: CAC027GBAM

Unit Tag: AHU-1 (12-21-2022)

Project Name

Dec. 28, 2022

Ver/Rev:

Sheet: 1 of 1

Sales Office:

Sales Engineer:

Scale: NTS

Tolerance: +/-0.25"

Dwg Units: in

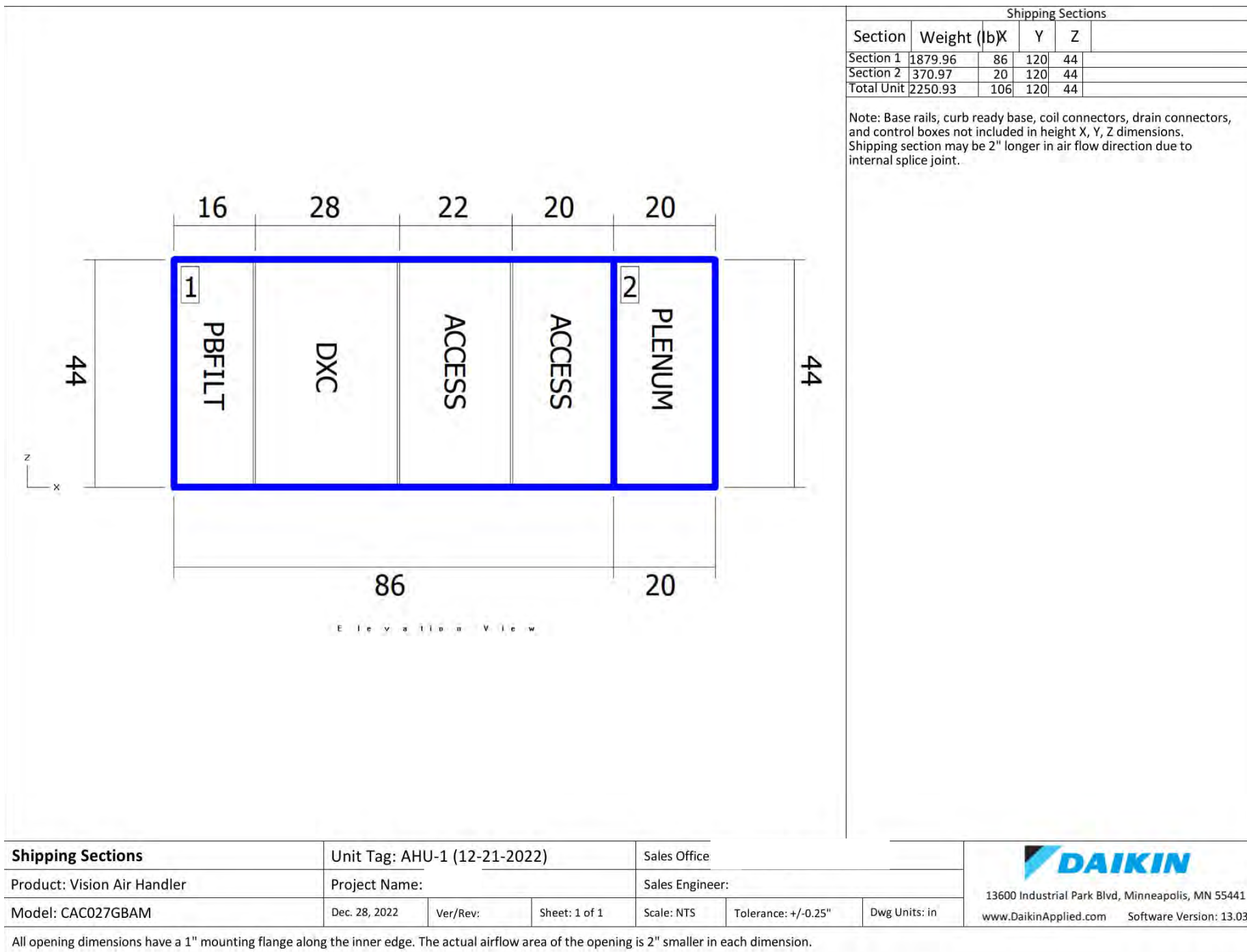


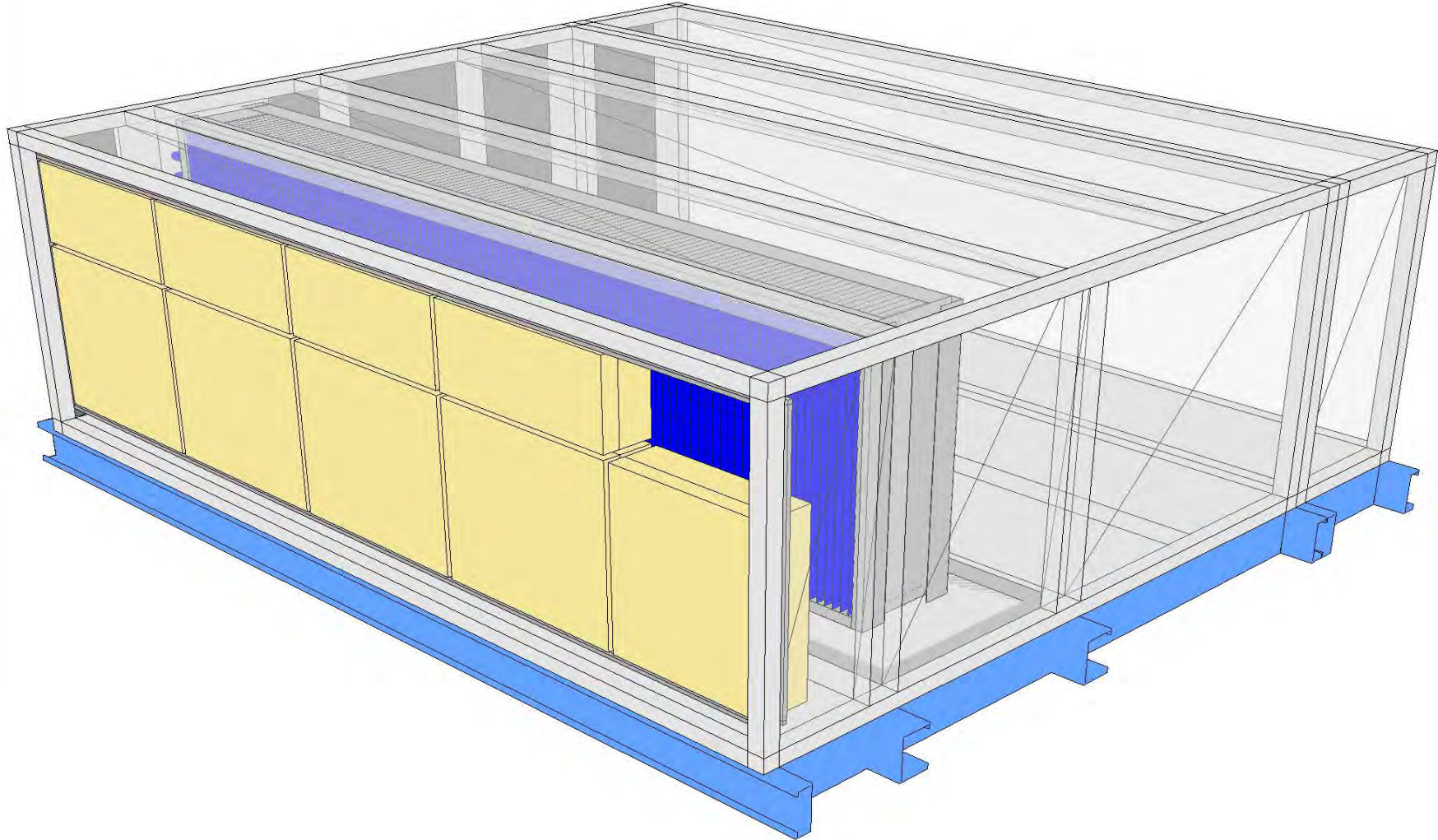
13600 Industrial Park Blvd, Minneapolis, MN 55441
www.DaikinApplied.com Software Version: 13.03

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-1 (12-21-2022)

Drawing

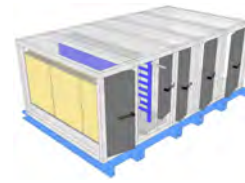




Product Drawing		Unit Tag: AHU-1 (12-21-2022)			Sales Office:			 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.03
Product: Vision Air Handler		Project Name:			Sales Engineer:			
Model: CAC027GBAM	Dec. 28, 2022	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-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.								

BYBUTD
ZY Lab
14
12/21/2022

Job Information		Technical Data Sheet
Job Name		
Date		
Submitted By		
Software Version	13.02	
Unit Tag	AHU-2 (12-21-2022)	



Unit Overview						
Model Number	Air Volume cfm	Supply				
		Static Pressure		External Dimensions		
		External inWc	Total inWc	Height in	Width in	Length in
CAC009GBAM	4000	1.00	0.00	36*	56*	100

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

Unit			
Model Number:	CAC009GBAM		
Approval:	ETL Listed / ETL Listed to Canadian Safety Standards (ETL Label / ETLc Label)		
Outer Panel:	24 gauge G90 Galvanized Steel (unpainted)		
Liner:	24 gauge Galvanized Steel (unless noted per section)		
Insulation:	R-13 Injected Foam		
Unit Configuration:	Inline horizontal	Drive (Handling) Location:	Right
Base:	4" formed channel	Wall Thickness:	2 in
Shipping Stretch Wrap:	Yes	Altitude:	0 ft
Parts Warranty:	Standard One Year		

Combination Filter			Component: 1			Length: 16 in		Shipping Section: 1		
Access			Face Velocity			Face Area		Air Volume		
Side			489 ft/min			8.2 ft²		4000 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	0.22 inWc	0.61 inWc	1.00 inWc	N/A	2	24 in	20 in	2 in
							1	24 in	12 in	2 in
Filter	Future filter - Flat	-	0.60 inWc	0.60 inWc	0.60 inWc	N/A	2	24 in	20 in	4 in
							1	24 in	12 in	4 in
Door										
Location				Width				Opening		
Drive side				12 in				Outward		

Direct Expansion Coil			Component: 2		Length: 24 in		Shipping Section: 2			
Coil Model	Total Capacity	Sensible Capacity	Number of Coils	Number of Rows	Fins per Inch	Tube Diameter	Tube Spacing (Face x Row)			
5EJ0906B	132965 Btu/hr	98674 Btu/hr	1	6	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						
4000 cfm	75.0 °F	62.5 °F	52.4 °F	50.8 °F	0.78 insWg	27 in	43 in	8.06 ft²	496 ft/min	
Fluid			Sub-Cooled Refrigerant Liquid Temp.		Suction Vapor Superheat Temp. at Coil Outlet		Design Saturated Condensing Temp.		Total Refrigerant Weight	
Suction Temp.	Refrigerant									
42.4 °F		R410a		110.0 °F		8.0 °F		110.0 °F		26.00 lb
Connection [Data Per Coil]							Min. Fin Surface Temp.		Min. Tube Wall Surface Temp.	
Type	Liquid [Qty - Size]	Suction [Qty - Size]	Location		Material					
OD Sweat	2-0.88 in	2-1.63 in	Drive side		Copper tube		32.0 °F		32.0 °F	
Material						Drain Pan		Drain Side		
Fin	Tube	Header	Case							
Aluminum .0075 in	Copper .020 in	Copper		Galv. steel		Stainless steel		Drive side		

Total Refrigerant Weight is the total for all circuits of all coils in this coil section and is estimated. Refer to the AHU and Condensing Unit IOMs for recommendations on system start-up.

Minimum allowable face velocity = 150 fpm

AHRI 410 Certification

Coil is NOT certified by AHRI

Door

Location	Width	Opening
Drive side	8 in	Outward

Access Section	Component: 3	Length: 16 in	Shipping Section: 3
Air Pressure Drop			
0.00 inWc			
Door			
Location	Width	Opening	Light
Drive side	8 in	Outward	LED marine light kit and switch only

Access Section	Component: 4	Length: 20 in	Shipping Section: 4
Air Pressure Drop			
0.00 inWc			
Door			
Location	Width	Opening	Light
Drive side	12 in	Outward	LED marine light kit and switch only

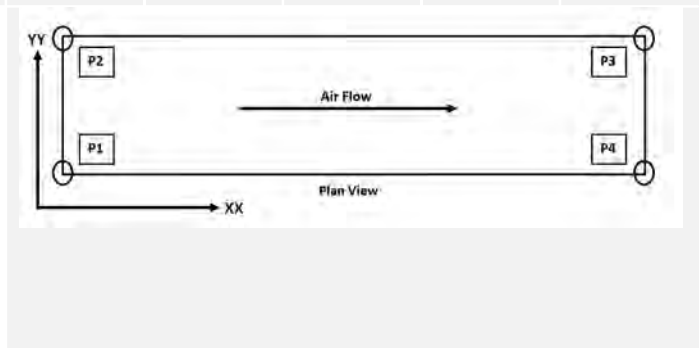
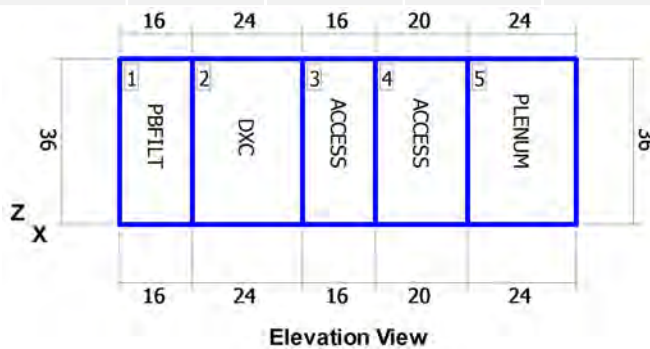
Plenum Section		Component: 5		Length: 24 in		Shipping Section: 5	
Air Pressure Drop							
0.01 inWc							
Custom Openings							
Custom Opening	Location		Width	Height		Rainhood w/ Screen	
1	End		52 in	32 in		None	
Door							
Location		Width		Opening		Light	
Drive side		16 in		Outward		LED marine light 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
Radiated:	64	54	48	41	39	41	46	51
Unit Discharge:	64	54	48	41	39	41	46	51
Unit Return:	64	54	48	41	39	41	46	51

Shipping Section Details

Section	Length in	Weight lb	Corner Weights (lb)				Center of Gravity (in)		
			P1	P2	P3	P4	XX	YY	ZZ
1	16	208	47	47	57	57	9	28	18
2	24	468	135	125	99	109	11	27	18
3	16	180	40	40	50	50	9	28	17
4	20	195	44	44	54	54	11	28	18
5	24	189	47	47	47	47	12	28	17
Entire Unit	100	1240	361	351	259	269	43	28	18



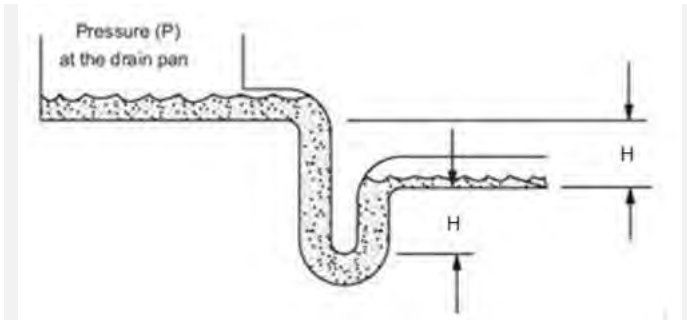
NOTE: Special components aren't included in the corner weights and center of gravity data.

Supply Static Pressure Drop

Component	Option	Static Pressure Drop
Panel and Bag Filter	Panel and Bag Filter	1.21 insWg
DX Coil	DX Coil	0.78 insWg
Access Section	Access Section	
Access Section	Access Section	
Plenum Section	Plenum Section	0.01 insWg
External Static	External Static	1.00 insWg
Total Supply Fan Static		

Minimum Recommended Drain Pan Trap Dimensions

Shipping Section	Component	H
2	DX Coil	4.48



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.

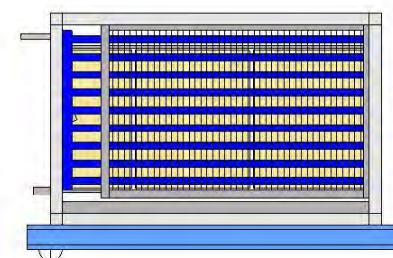
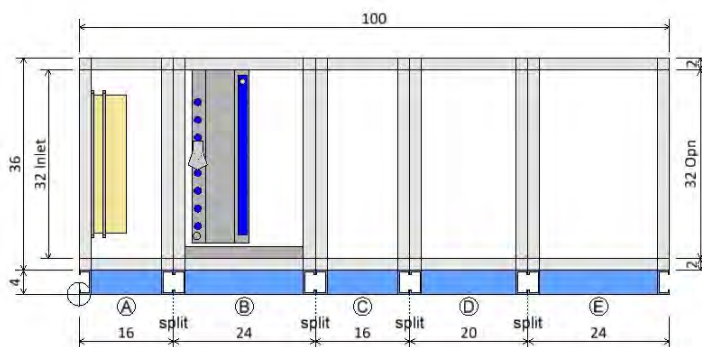
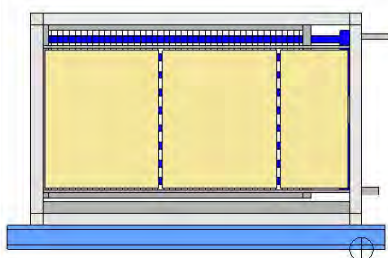
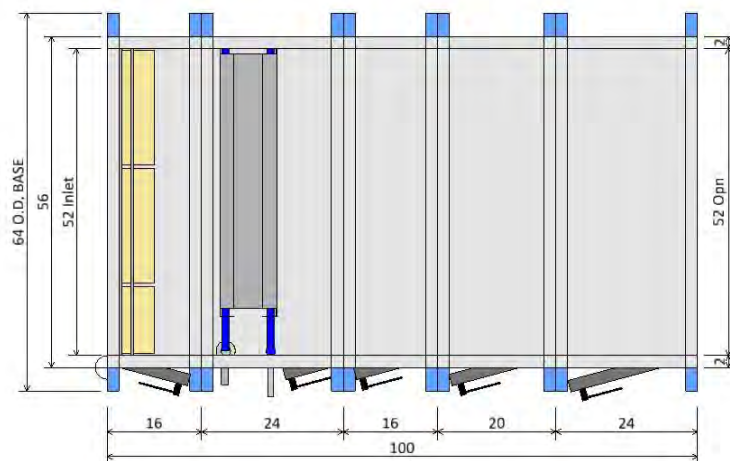
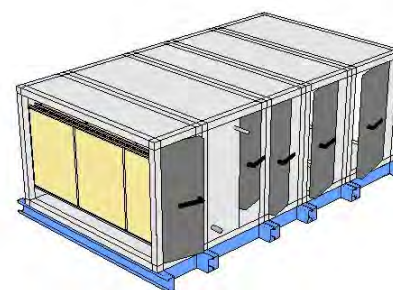
AHRI Certification

The air-handler is selected outside of the scope of AHRI Standard 430/431

Notes

Standard

1. As a standalone component, unit meets or exceeds requirements of ASHRAE 90.1 - 2007. The approving authority is responsible for compliance of multi - component building systems.
2. Note: Final filter media not provided by Daikin Applied, quantity and size data is for informational purposes only.



FRONT END VIEW				ELEVATION VIEW			REAR END VIEW	
Plan/Elevation		Unit Tag: AHU-2 (12-21-2022)			Sales Office:		 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.03	
Product: Vision Air Handler		Project Name:			Sales Engineer:			
Model: CAC009GBAM		Dec. 28, 2022	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.								

BYBUTD

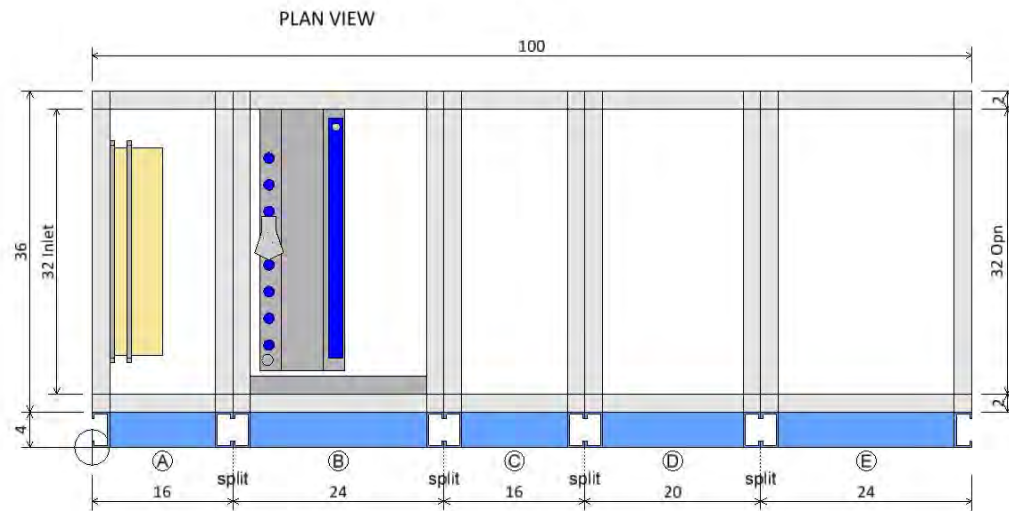
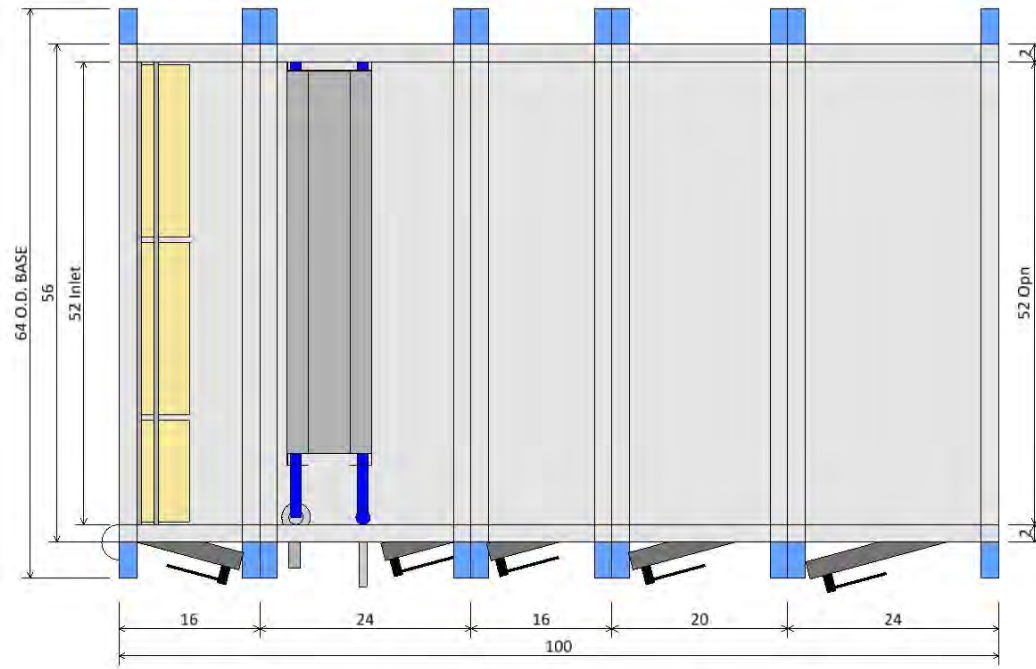
ZY Lab

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12/21/2022

AHU-2 (12-21-2022)

Drawing



Component Key

Panel and Bag Filter	
(A) Pre Filter Type:	Pleated (MERV 8)
Bag Filter Type:	Future Flat
Right Door (WxH):	12 ins x 32 ins
DX Coil	
(B) Coil Model:	5EJ0906B
Total Capacity:	132965.0 Btu/hr
Right Door (WxH):	8 ins x 26 ins
Access Section	
(C) Right Door (WxH):	8 ins x 32 ins
Access Section	
(D) Right Door (WxH):	12 ins x 32 ins
Plenum Section	
(E) Right Door (WxH):	16 ins x 32 ins

Plan/Elevation - No Ends

Product: Vision Air Handler

Model: CAC009GBAM

Unit Tag: AHU-2 (12-21-2022)

Project Name:

Dec. 28, 2022

Ver/Rev:

Sheet: 1 of 1

Sales Office:

Sales Engineer:

Scale: NTS

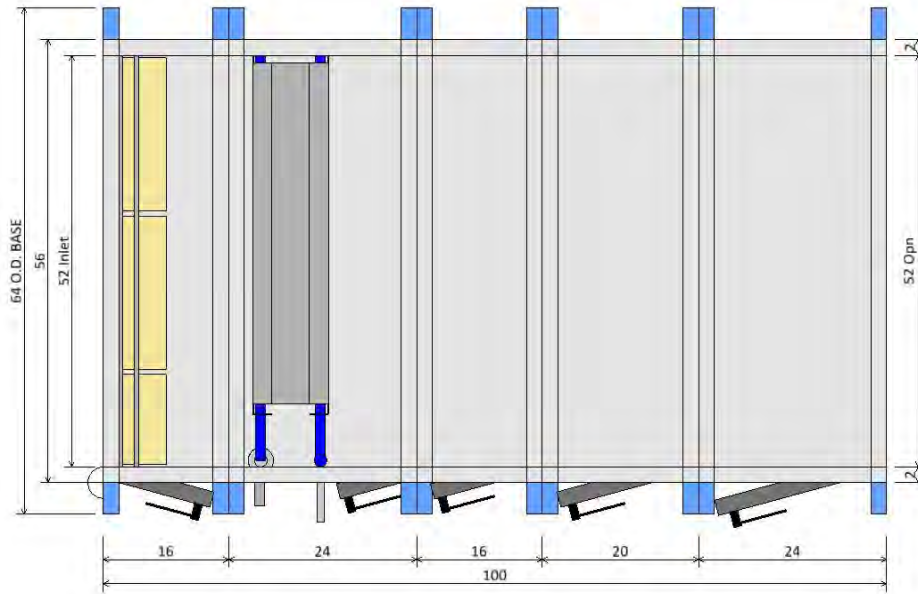
Tolerance: +/-0.25"

Dwg Units: in

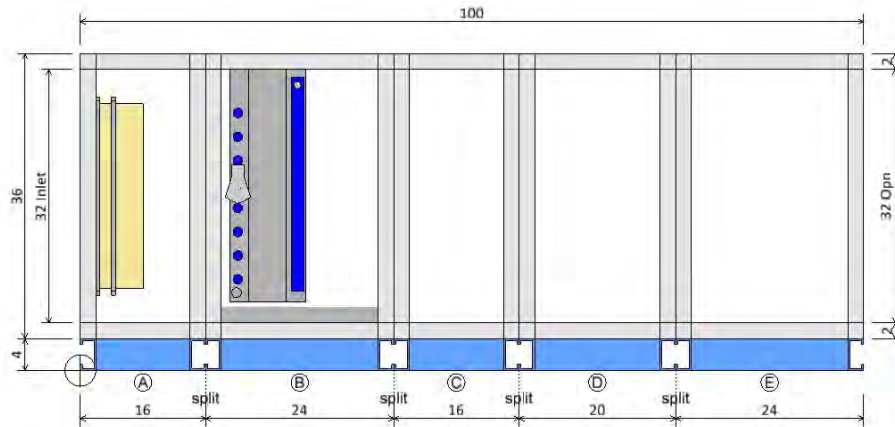


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All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.



PLAN VIEW



ELEVATION VIEW

Component Key

Type	X	Y	Z	Wid	Hgt
Ⓐ Panel and Bag Filter Opening	0.00	2.00	6.00	52.00	32.00
Ⓔ Plenum Section Opening	100.00	2.00	6.00	52.00	32.00

Note: Dimensions are measured from the origin point.

Opening/Damper Connections

Product: Vision Air Handler

Model: CAC009GBAM

Unit Tag: AHU-2 (12-21-2022)

Project Name:

Dec. 28, 2022

Ver/Rev:

Sheet: 1 of 1

Sales Office:

Sales Engineer:

Scale: NTS

Tolerance: +/-0.25"

Dwg Units: in



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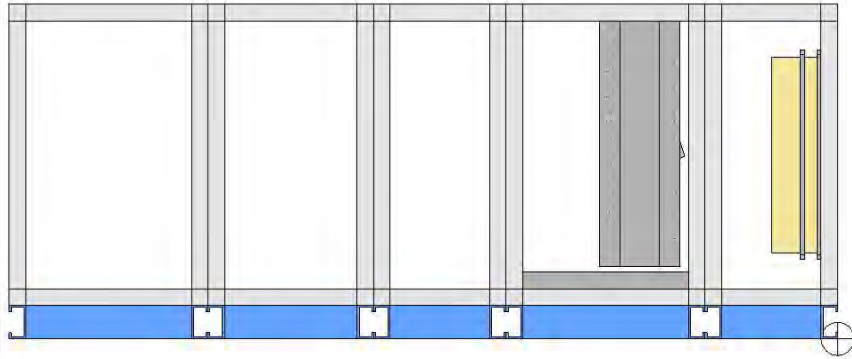
All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.

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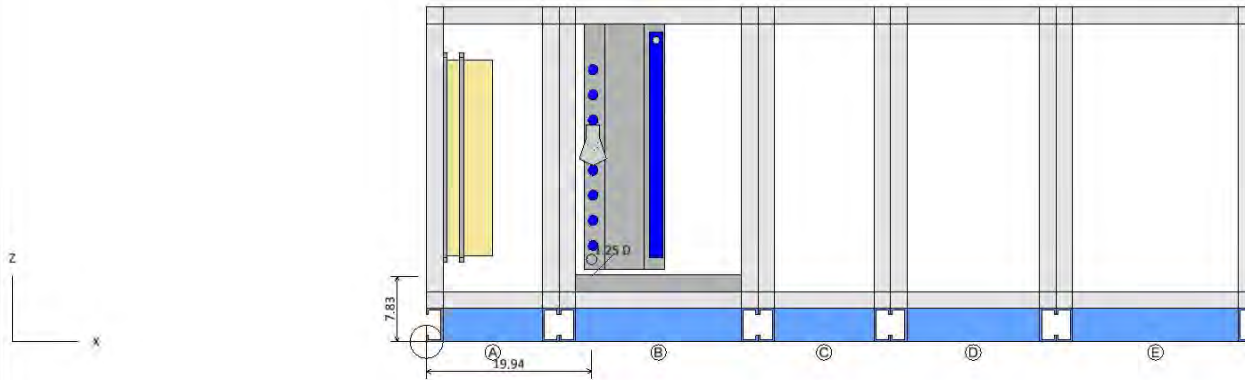
ZY Lab

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LEFT ELEVATION VIEW



RIGHT ELEVATION VIEW

Coil and Drain Connections

Type	X	Y	Z	Diam
DX Coil				
Condensate drain conn:	19.94	-4.90	9.83	1.25
DX suction:	TBD	TBD	TBD	2- 1.63
DX liquid conn:	TBD	TBD	TBD	2- 0.88

Note: Dimensions are measured from the origin point.

AHU-2 (12-21-2022)

Drawing

Coil and Drain Connections

Product: Vision Air Handler

Model: CAC009GBAM

Unit Tag: AHU-2 (12-21-2022)

Project Name:

Dec. 28, 2022

Ver/Rev:

Sheet: 1 of 1

Sales Office

Sales Engineer:

Scale: NTS

Tolerance: +/-0.25"

Dwg Units: in



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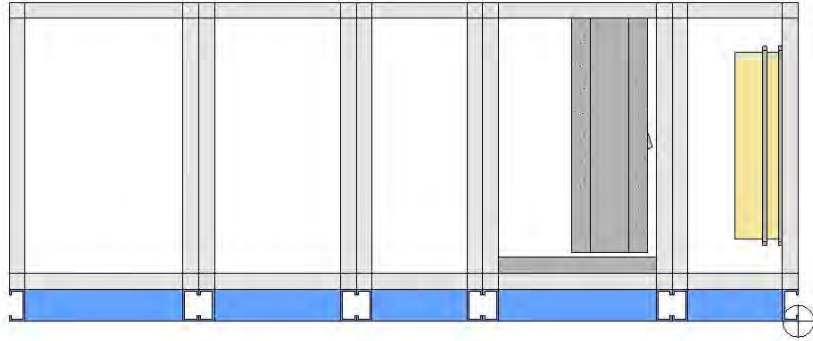
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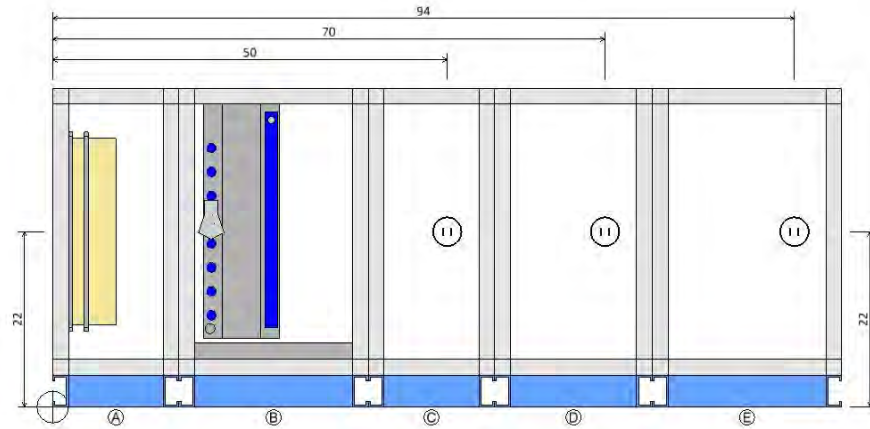
ZY Lab

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12/21/2022



LEFT ELEVATION VIEW



RIGHT ELEVATION VIEW

Component Key

	Type	X	Y	Z	Volts	Phase
Ⓒ	Access Section LED Marine Light	50.00	0.00	22.00	110	1
Ⓓ	Access Section LED Marine Light	70.00	0.00	22.00	110	1
Ⓔ	Plenum Section LED Marine Light	94.00	0.00	22.00	110	1

Note: Dimensions are measured from the origin point.

AHU-2 (12-21-2022)

Drawing

Electrical Connections

Product: Vision Air Handler

Model: CAC009GBAM

Unit Tag: AHU-2 (12-21-2022)

Project Name:

Dec. 28, 2022

Ver/Rev:

Sheet: 1 of 1

Sales Office:

Sales Engineer:

Scale: NTS

Tolerance: +/-0.25"

Dwg Units: in



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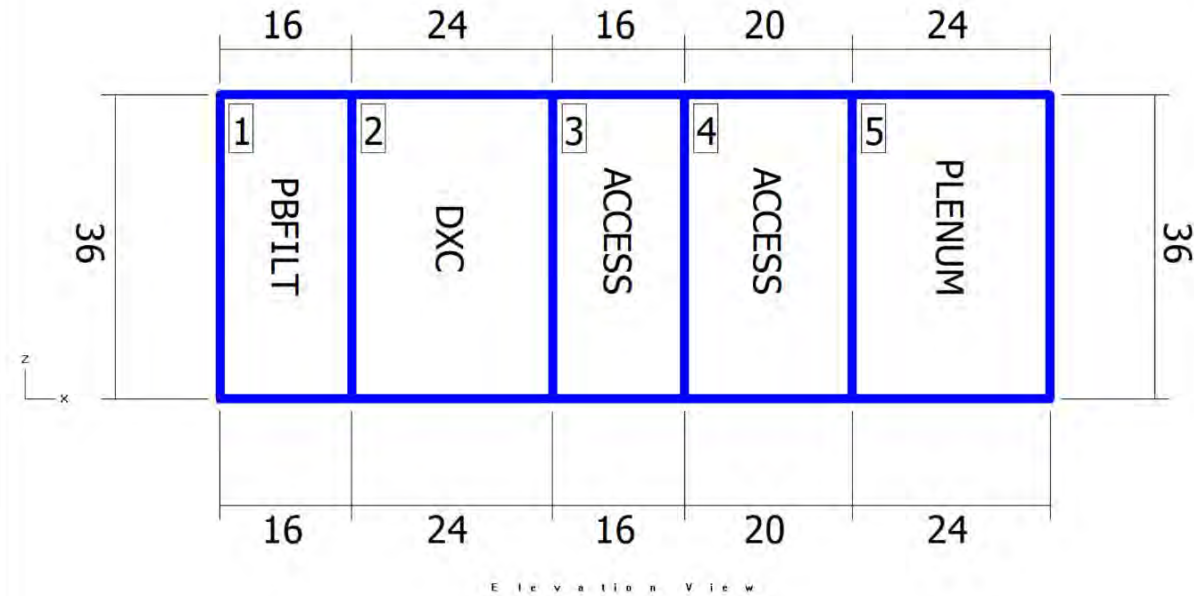
All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.

BYBU7D

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12/21/2022



Shipping Sections					
Section	Weight (lb)	X	Y	Z	
Section 1	208.23	16	56	36	
Section 2	467.90	24	56	36	
Section 3	180.00	16	56	36	
Section 4	194.81	20	56	36	
Section 5	188.99	24	56	36	
Total Unit	1239.94	100	56	36	

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.

Shipping Sections

Product: Vision Air Handler

Model: CAC009GBAM

Unit Tag: AHU-2 (12-21-2022)

Project Name

Dec. 28, 2022

Ver/Rev:

Sheet: 1 of 1

Sales Office: I

Sales Engineer:

Scale: NTS

Tolerance: +/-0.25"

Dwg Units: in



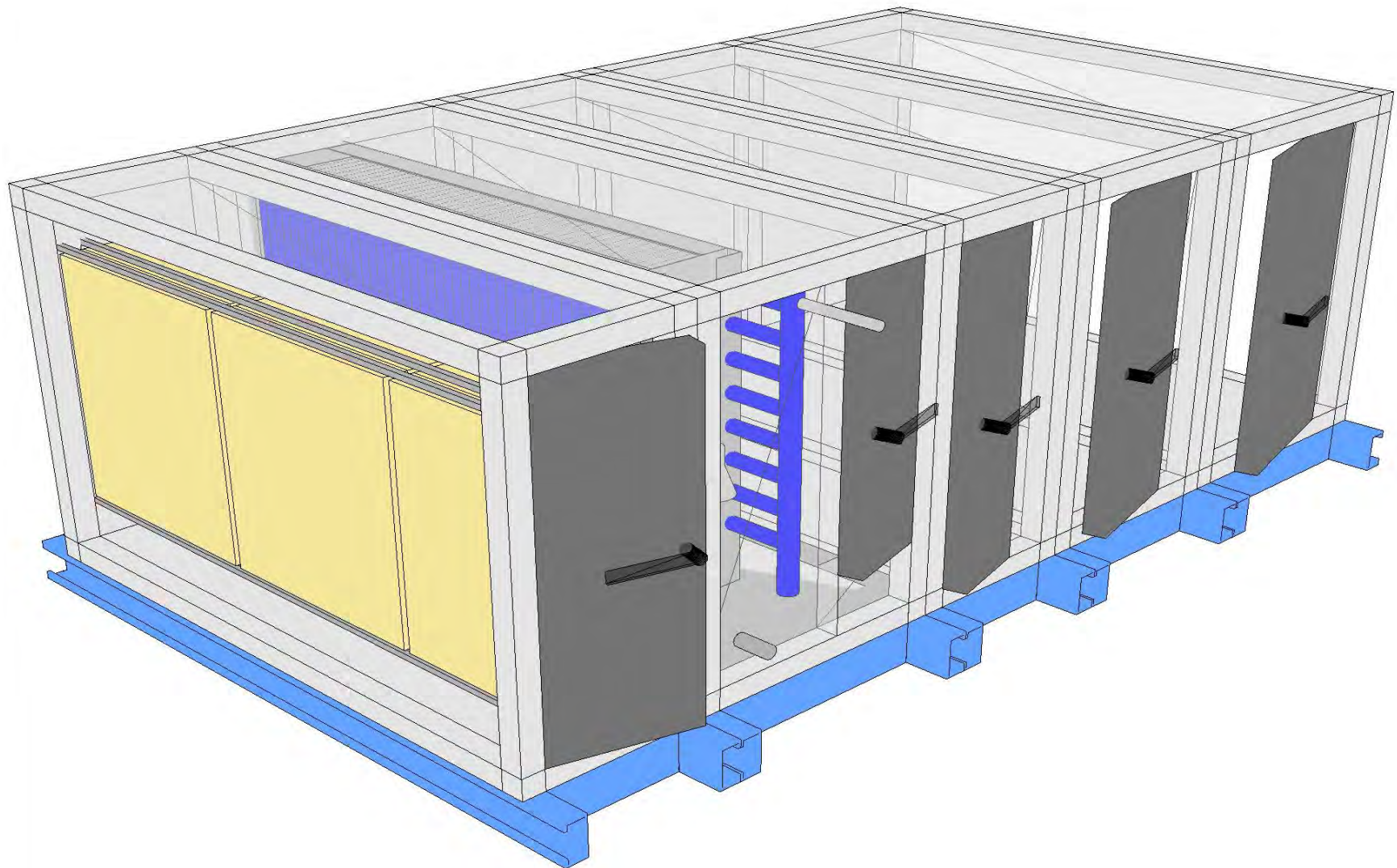
13600 Industrial Park Blvd, Minneapolis, MN 55441

www.DaikinApplied.com Software Version: 13.03

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 (12-21-2022)

Drawing



Product Drawing		Unit Tag: AHU-2 (12-21-2022)			Sales Office			 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.03
Product: Vision Air Handler		Project Name:			Sales Engineer:			
Model: CAC009GBAM		Dec. 28, 2022	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.								

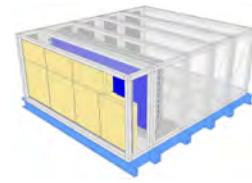
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12/21/2022

Job Information		Technical Data Sheet
Job Name		
Date		
Submitted By		
Software Version	13.02	
Unit Tag	AHU-3 (12-21-2022)	



Unit Overview						
Model Number	Air Volume cfm	Supply				
		Static Pressure		External Dimensions		
		External inWc	Total inWc	Height in	Width in	Length in
CAC019GBAM	10000	1.00	0.00	42*	92*	106

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

Unit			
Model Number:	CAC019GBAM		
Approval:	ETL Listed / ETL Listed to Canadian Safety Standards (ETL Label / ETLc Label)		
Outer Panel:	24 gauge G90 Galvanized Steel (unpainted)		
Liner:	24 gauge Galvanized Steel (unless noted per section)		
Insulation:	R-13 Injected Foam		
Unit Configuration:	Inline horizontal	Drive (Handling) Location:	Left
Base:	6" formed channel	Wall Thickness:	2 in
Shipping Stretch Wrap:	Yes	Altitude:	0 ft
Parts Warranty:	Standard One Year		

Combination Filter			Component: 1		Length: 16 in			Shipping Section: 1		
Access			Face Velocity		Face Area			Air Volume		
Side			514 ft/min		19.5 ft²			10000 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	0.24 inWc	0.62 inWc	1.00 inWc	N/A	2	24 in	24 in	2 in
							2	24 in	20 in	2 in
							3	12 in	24 in	2 in
Filter	Future filter - Flat	-	0.60 inWc	0.60 inWc	0.60 inWc	N/A	2	24 in	24 in	4 in
							2	24 in	20 in	4 in
							3	12 in	24 in	4 in
Door										
Location			Width				Opening			
Drive side			12 in				Outward			

Direct Expansion Coil			Component: 2		Length: 24 in		Shipping Section: 2		
Coil Model	Total Capacity	Sensible Capacity	Number of Coils	Number of Rows	Fins per Inch	Tube Diameter	Tube Spacing (Face x Row)		
5EJ0906B	301175 Btu/hr	231937 Btu/hr	1	6	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					
10000 cfm	75.0 °F	62.5 °F	53.8 °F	52.0 °F	0.92 insWg	33 in	79 in	18.10 ft²	552 ft/min
Fluid			Sub-Cooled Refrigerant Liquid Temp.		Suction Vapor Superheat Temp. at Coil Outlet		Design Saturated Condensing Temp.		Total Refrigerant Weight
Suction Temp.	Refrigerant								
43.5 °F	R410a	110.0 °F		8.0 °F		110.0 °F		57.00 lb	
Connection [Data Per Coil]							Min. Fin Surface Temp.		Min. Tube Wall Surface Temp.
Type	Liquid [Qty - Size]	Suction [Qty - Size]	Location	Material					
OD Sweat	2-1.38 in	2-1.63 in	Drive side	Copper tube		32.0 °F		32.0 °F	
Material						Drain Pan		Drain Side	
Fin	Tube	Header	Case						
Aluminum .0075 in	Copper .020 in	Copper	Galv. steel		Stainless steel		Drive side		

Total Refrigerant Weight is the total for all circuits of all coils in this coil section and is estimated. Refer to the AHU and Condensing Unit IOMs for recommendations on system start-up.

Minimum allowable face velocity = 150 fpm

AHRI 410 Certification

Coil is NOT certified by AHRI

Door

Location	Width	Opening
Drive side	8 in	Outward

Access Section	Component: 3	Length: 22 in	Shipping Section: 3
Air Pressure Drop			
0.00 inWc			
Door			
Location	Width	Opening	Light
Drive side	14 in	Outward	LED marine light kit and switch only

Access Section	Component: 4	Length: 20 in	Shipping Section: 4
Air Pressure Drop			
0.00 inWc			
Door			
Location	Width	Opening	Light
Drive side	12 in	Outward	LED marine light kit and switch only

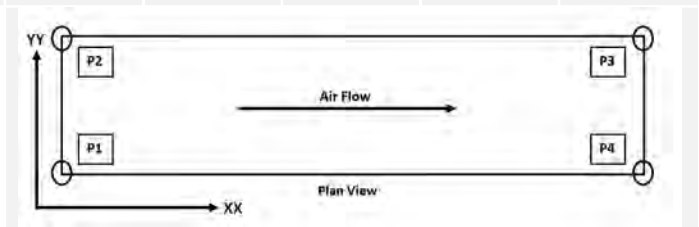
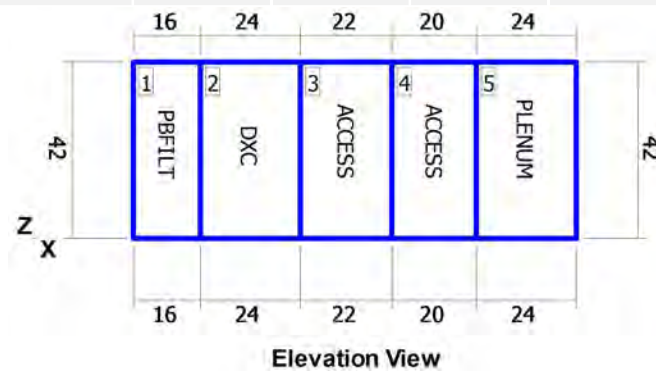
Plenum Section		Component: 5		Length: 24 in		Shipping Section: 5	
Air Pressure Drop							
0.01 inWc							
Custom Openings							
Custom Opening	Location		Width	Height		Rainhood w/ Screen	
1	End		88 in	38 in		None	
Door							
Location		Width		Opening		Light	
Drive side		16 in		Outward		LED marine light 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
Radiated:	64	54	48	41	39	41	46	51
Unit Discharge:	64	54	48	41	39	41	46	51
Unit Return:	64	54	48	41	39	41	46	51

Shipping Section Details

Section	Length in	Weight lb	Corner Weights (lb)				Center of Gravity (in)		
			P1	P2	P3	P4	XX	YY	ZZ
1	16	338	77	77	92	92	9	46	19
2	24	836	231	243	188	175	10	47	22
3	22	324	73	73	89	89	12	46	19
4	20	314	71	71	86	86	11	46	19
5	24	304	76	76	76	76	12	46	19
Entire Unit	106	2116	612	624	447	434	44	47	20



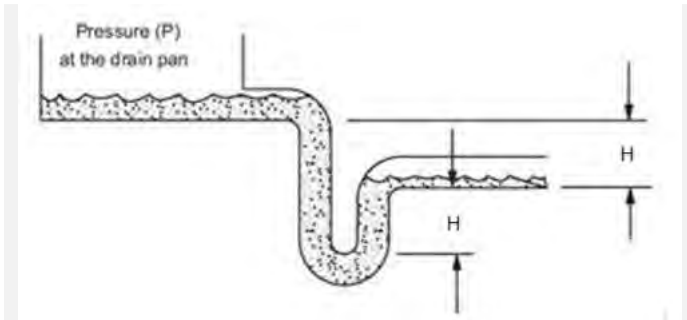
NOTE: Special components aren't included in the corner weights and center of gravity data.

Supply Static Pressure Drop

Component	Option	Static Pressure Drop
Panel and Bag Filter	Panel and Bag Filter	0.84 insWg
DX Coil	DX Coil	0.92 insWg
Access Section	Access Section	
Access Section	Access Section	
Plenum Section	Plenum Section	0.01 insWg
External Static	External Static	1.00 insWg
Total Supply Fan Static		

Minimum Recommended Drain Pan Trap Dimensions

Shipping Section	Component	H
2	DX Coil	4.02



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.

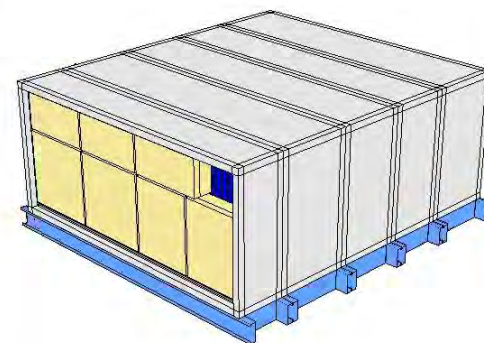
AHRI Certification

The air-handler is selected outside of the scope of AHRI Standard 430/431

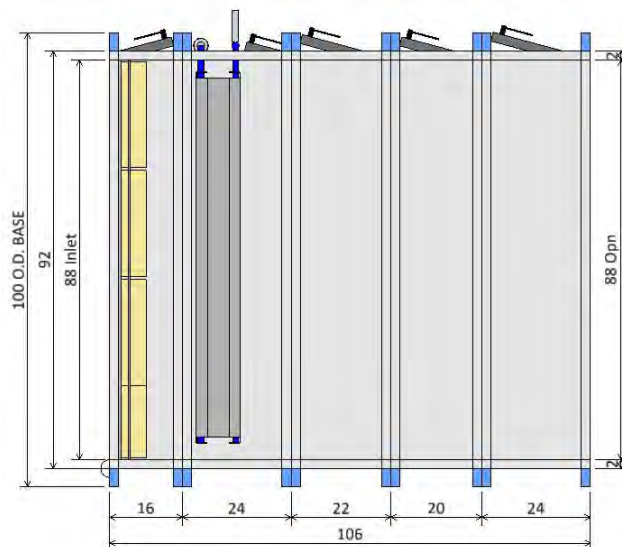
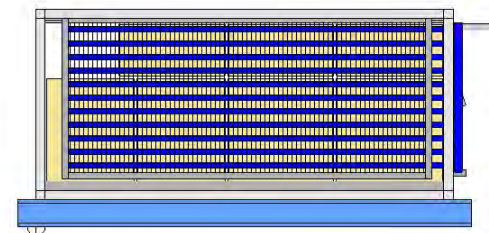
Notes

Standard

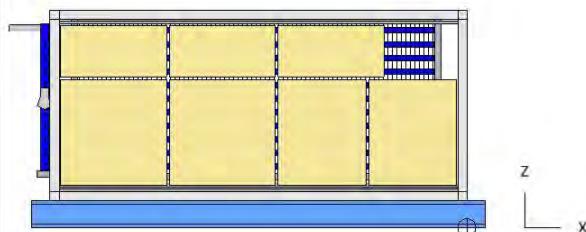
1. As a standalone component, unit meets or exceeds requirements of ASHRAE 90.1 - 2007. The approving authority is responsible for compliance of multi - component building systems.
2. Note: Final filter media not provided by Daikin Applied, quantity and size data is for informational purposes only.



PLAN VIEW

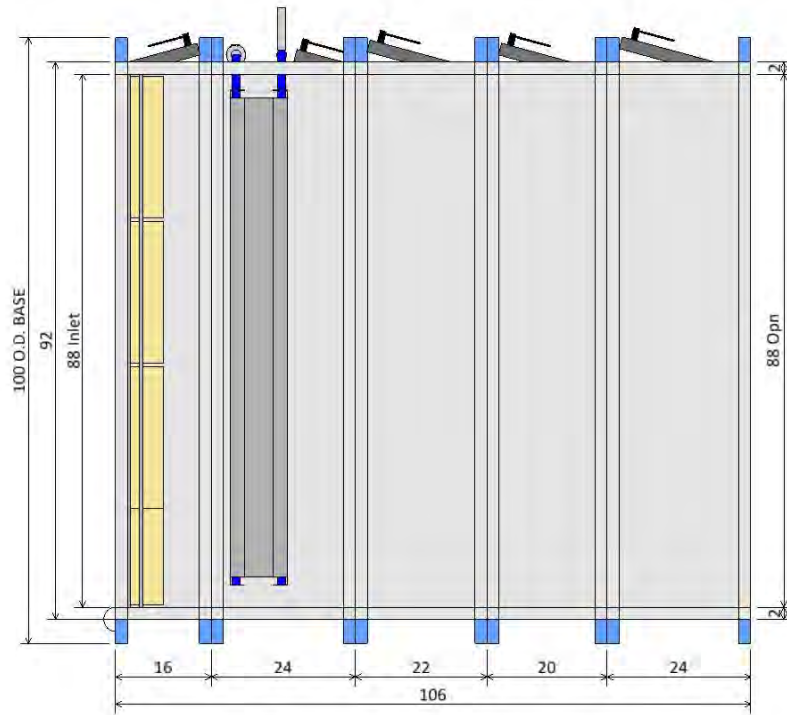


ELEVATION VIEW

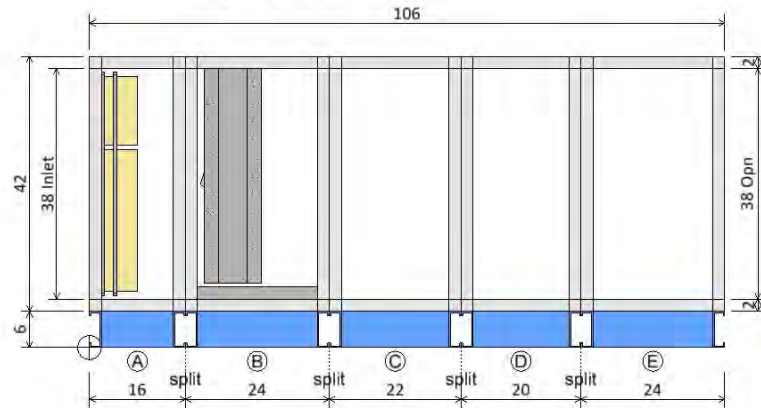


FRONT END VIEW

FRONT END VIEW			ELEVATION VIEW			REAR END VIEW	
Plan/Elevation		Unit Tag: AHU-3 (12-21-2022)			Sales Office: D&B Building Solutions LLC		 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.03
Product: Vision Air Handler		Project Name:			Sales Engineer:		
Model: CAC019GBAM		Dec. 28, 2022	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	
Panel and Bag Filter	
Ⓐ Pre Filter Type:	Pleated (MERV 8)
Bag Filter Type:	Future Flat
Left Door (WxH):	12 ins x 38 ins
DX Coil	
Ⓑ Coil Model:	5EJ0906B
Total Capacity:	301175.0 Btu/hr
Left Door (WxH):	8 ins x 32 ins
Access Section	
Ⓒ Left Door (WxH):	14 ins x 38 ins
Access Section	
Ⓓ Left Door (WxH):	12 ins x 38 ins
Plenum Section	
Ⓔ Left Door (WxH):	16 ins x 38 ins

AHU-3 (12-21-2022)

Drawing

Plan/Elevation - No Ends

Product: Vision Air Handler

Model: CAC019GBAM

Unit Tag: AHU-3 (12-21-2022)

Project Name:

Dec. 28, 2022

Ver/Rev:

Sheet: 1 of 1

Sales Office: D&B Building Solutions LLC

Sales Engineer:

Scale: NTS

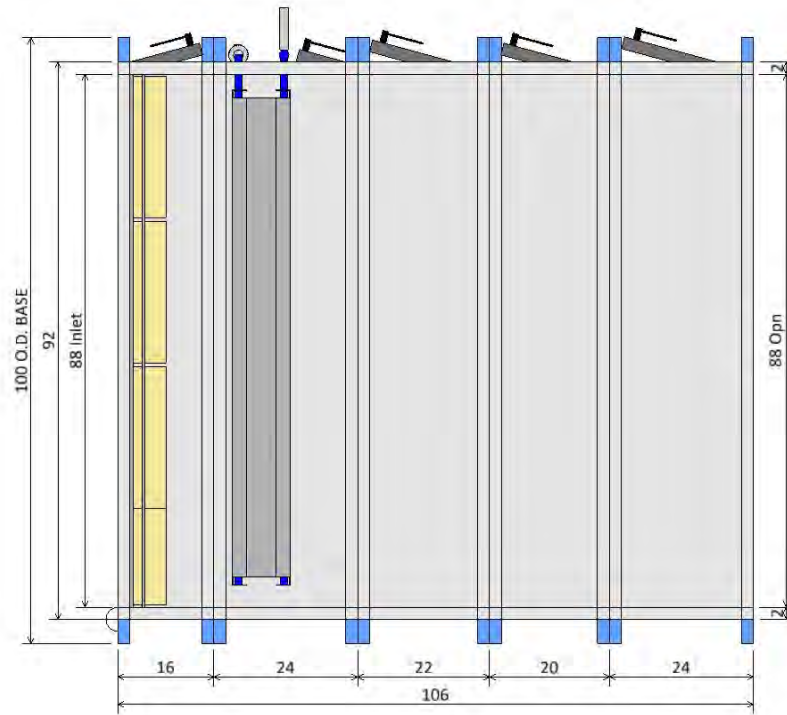
Tolerance: +/-0.25"

Dwg Units: in

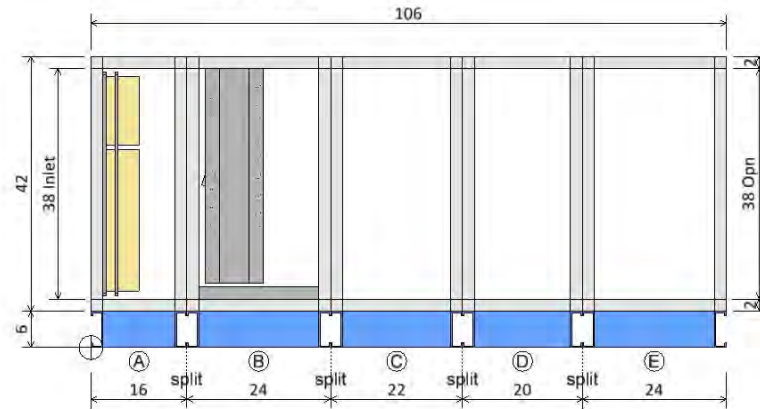


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All opening dimensions have a 1" mounting flange along the inner edge. The actual airflow area of the opening is 2" smaller in each dimension.



PLAN VIEW



ELEVATION VIEW

Component Key

Type	X	Y	Z	Wid	Hgt
(A) Panel and Bag Filter Opening	0.00	2.00	8.00	88.00	38.00
(E) Plenum Section Opening	106.00	2.00	8.00	88.00	38.00

Note: Dimensions are measured from the origin point.

AHU-3 (12-21-2022)

Drawing

Opening/Damper Connections

Product: Vision Air Handler

Model: CAC019GBAM

Unit Tag: AHU-3 (12-21-2022)

Project Name:

Dec. 28, 2022

Ver/Rev:

Sheet: 1 of 1

Sales Office: D&B Building Solutions LLC

Sales Engineer:

Scale: NTS

Tolerance: +/-0.25"

Dwg Units: in



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www.DaikinApplied.com Software Version: 13.03

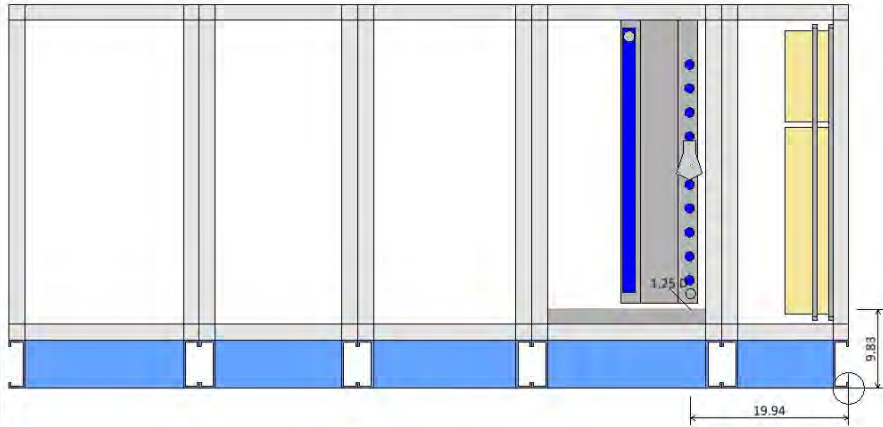
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BYBU7D

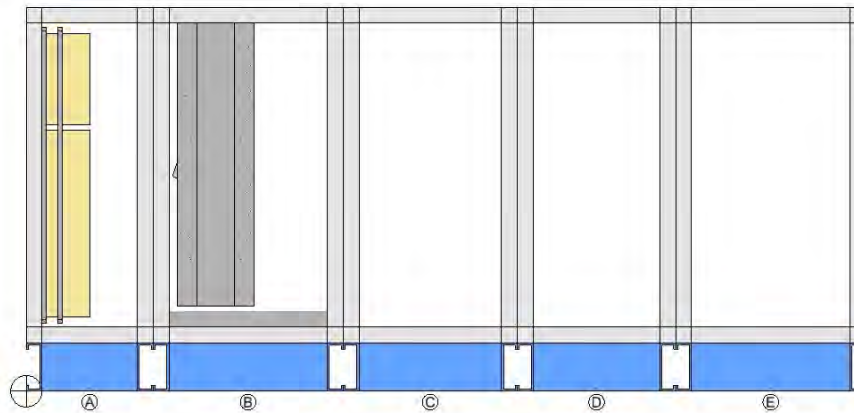
ZY Lab

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12/21/2022



LEFT ELEVATION VIEW



RIGHT ELEVATION VIEW

Coil and Drain Connections

Type	X	Y	Z	Diam
DX Coil	19.94	92.90	11.83	1.25
Condensate drain conn:	TBD	TBD	TBD	2- 1.63
DX suction:	TBD	TBD	TBD	2- 1.38
DX liquid conn:	TBD	TBD	TBD	

Note: Dimensions are measured from the origin point.

AHU-3 (12-21-2022)

Drawing

Coil and Drain Connections

Product: Vision Air Handler

Model: CAC019GBAM

Unit Tag: AHU-3 (12-21-2022)

Project Name

Dec. 28, 2022

Ver/Rev:

Sheet: 1 of 1

Sales Office: D&B Building Solutions LLC

Sales Engineer:

Scale: NTS

Tolerance: +/-0.25"

Dwg Units: in



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www.DaikinApplied.com Software Version: 13.03

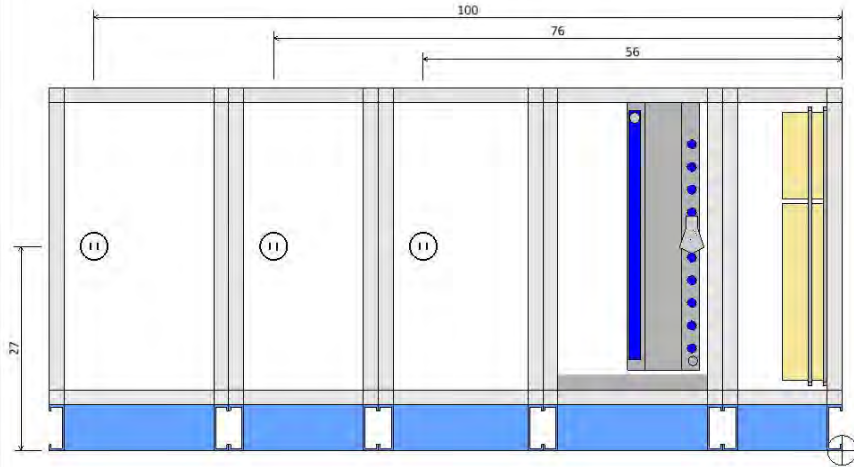
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BYBUD

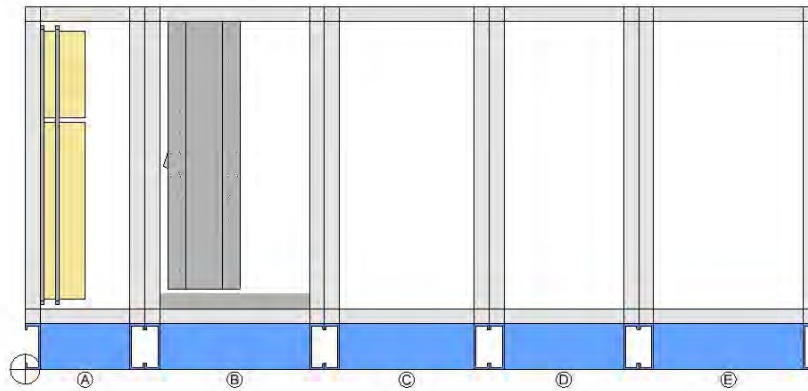
ZY Lab

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12/21/2022



LEFT ELEVATION VIEW



RIGHT ELEVATION VIEW

Component Key

	Type	X	Y	Z	Volts	Phase
Ⓒ	Access Section LED Marine Light	56.00	92.00	27.00	110	1
Ⓓ	Access Section LED Marine Light	76.00	92.00	27.00	110	1
Ⓔ	Plenum Section LED Marine Light	100.00	92.00	27.00	110	1

Note: Dimensions are measured from the origin point.

Electrical Connections

Product: Vision Air Handler

Model: CAC019GBAM

Unit Tag: AHU-3 (12-21-2022)

Project Name:

Dec. 28, 2022

Ver/Rev:

Sheet: 1 of 1

Sales Office: D&B Building Solutions LLC

Sales Engineer:

Scale: NTS

Tolerance: +/-0.25"

Dwg Units: in

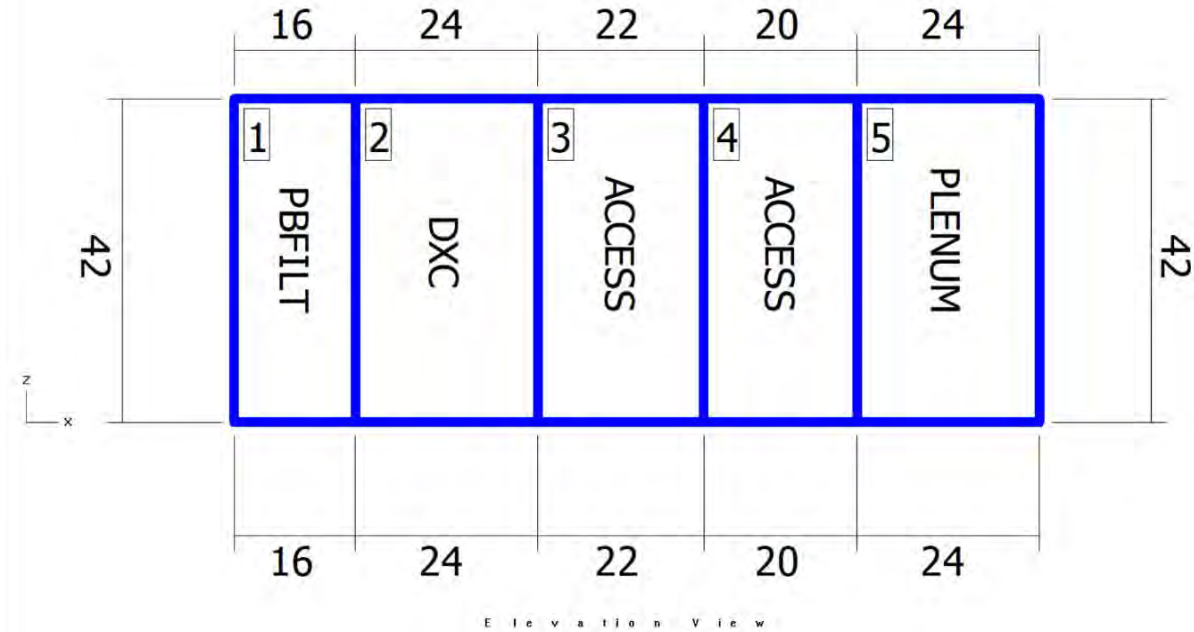


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www.DaikinApplied.com Software Version: 13.03

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-3 (12-21-2022)

Drawing



Shipping Sections

Section	Weight (lb)	X	Y	Z
Section 1	338.25	16	92	42
Section 2	836.33	24	92	42
Section 3	324.37	22	92	42
Section 4	314.23	20	92	42
Section 5	303.70	24	92	42
Total Unit	2116.88	106	92	42

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.

Shipping Sections

Unit Tag: AHU-3 (12-21-2022)

Sales Office: D&B Building Solutions LLC

Product: Vision Air Handler

Project Name: 2

Sales Engineer:

Model: CAC019GBAM

Dec. 28, 2022

Ver/Rev:

Sheet: 1 of 1

Scale: NTS

Tolerance: +/-0.25"

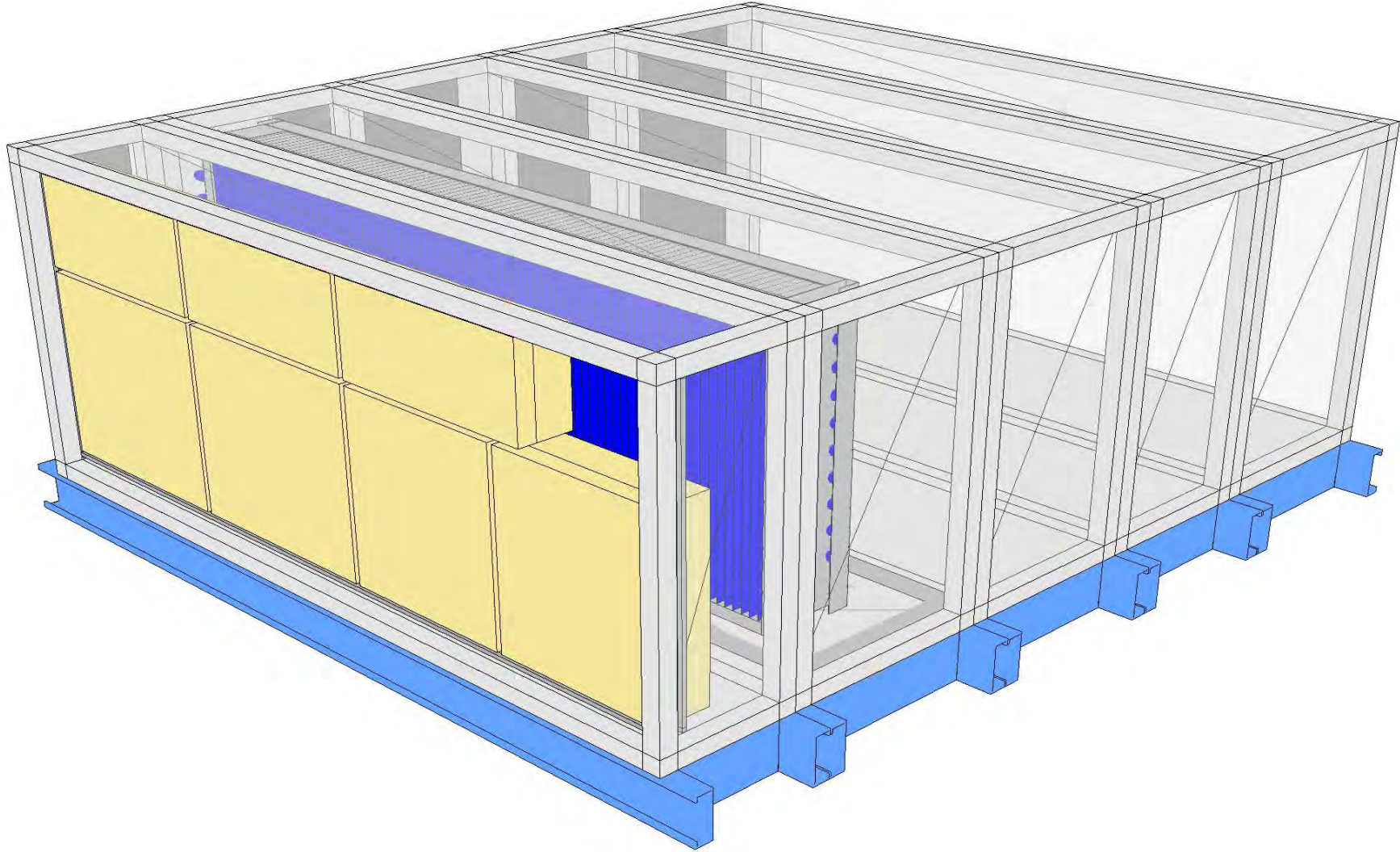
Dwg Units: in



13600 Industrial Park Blvd, Minneapolis, MN 55441

www.DaikinApplied.com Software Version: 13.03

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.



Product Drawing		Unit Tag: AHU-3 (12-21-2022)			Sales Office: D&B Building Solutions LLC			 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.03
Product: Vision Air Handler		Project Name:			Sales Engineer:			
Model: CAC019GBAM		Dec. 28, 2022	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.								



Submittal Data
Job Name:
To:
Prepared By:
Date: 11/16/2022

Q-PAC Schedule																								
Array	Qty	Performance							Physical Data						Electrical Data							Sound Data		
		Air Volume (CFM) (total/each)	Static Pressure	Single Fan Motor Data (HP)			Speed (rpm)		Bulkhead Width (in)	Bulkhead Height (in)	Quantity of Fans	Fan Model	Wheel Diameter (in)	Single Fan Weight (lbs)	Blade Material	Electrical Supply	Single Fan FLA (A)	MCA (A)	MOCF (A)	SCC Rating	QCB1 MCA (A)	QCB2 MCA (A)	Inlet (dB)	Outlet (dB)
				Motor HP	Input Power	Equiv BHP	Operating	Maximum																
AHU-1 Alt	44	12,500 / 6,250	2.40"	6.97	5.13	4.66	2,458	2,570	116	40	2	FA1700078	17.7	92.6	HP Composite	3~ 440-480V 60Hz	7.32	16.67	20.00	100 KAIC	16.47	-	91	98
AHU-2	1	4,000 / 4,000	2.40"	6.97	2.55	2.32	1,867	2,570	52	32	1	FA1700078	17.7	92.6	HP Composite	3~ 440-480V 60Hz	7.32	9.35	15.00	100 KAIC	9.15	-	78	87
AHU-3	2	10,000 / 5,000	2.40"	4.83	3.43	3.12	2,119	2,260	88	38	2	FA1700077	17.7	92.6	HP Composite	3~ 440-480V 60Hz	5.08	11.63	15.00	100 KAIC	11.43	-	86	94

Job Name:
To:
Prepared By:
Date:



AHU-1 Alt

QTY: 44

Performance

Airflow (total)	12,500 CFM
Airflow (each)	6,250 CFM
Total Static Pressure	2.40"
Input HP (each)	5.13 HP
Max HP (each)	6.97 HP
Equiv BHP (each)	4.66 BHP
Operating RPM	2,458 RPM
Max RPM	2,570 RPM
System Efficiency	46.2%
Redundancy	53%

Physical

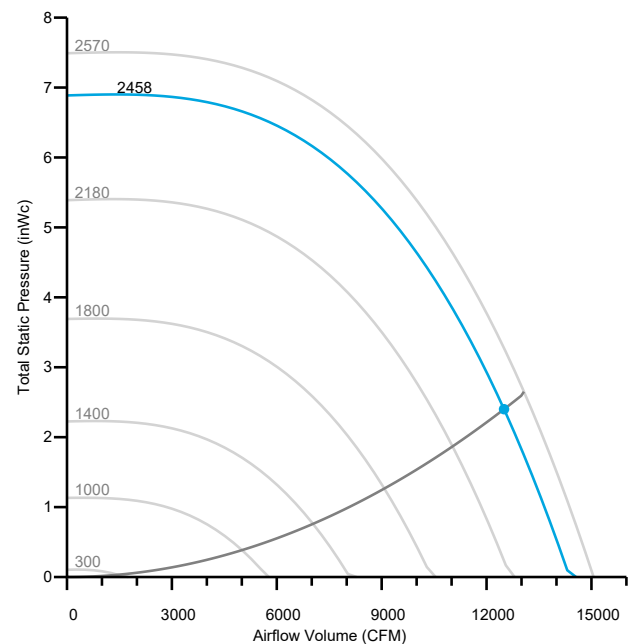
Bulkhead Width	116"
Bulkhead Height	40"
Quantity of Fans	2
Fan Model	FA1700078
Wheel Diameter	17.7"
Single Fan Weight	93 lbs
System Weight	374 lbs
Blade Material	HP Composite
Handing	Left
Backflow Device	Blank-Off Plate
Control Panel Width	15.0"
Control Panel Height	23.8"
Control Panel Depth	10.1"

Electrical

Electrical Supply	3~ 440-480V 60Hz
Single Fan FLA	7.32 A
System MCA	16.67 A
System MOC	20.00 A
QCB1 MCA	16.47 A
QCB2 MCA	-
SCC Rating	100 KAIC; Fused

Controls

Type	Basic
Rating	Indoor



Fan model is rated in accordance with AMCA Sound and Air Performance without Accessories. Performance shown is for Free Inlet/Free Outlet installations in accordance to DIN EN ISO 5801

Job Name:
To:
Prepared By:
Date: 11/16/2022

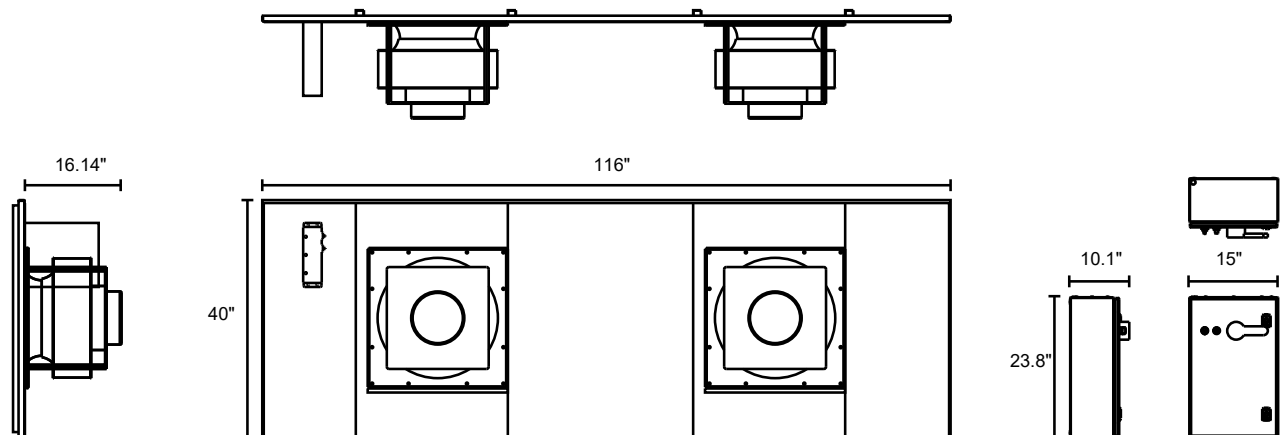
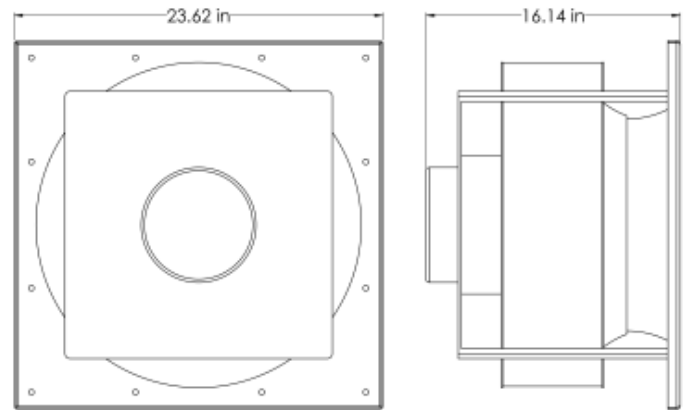


AHU-1 Alt

QTY: 44

System Sound Power (dB)

Frequency	System Discharge	System Inlet
63 Hz	85	83
125 Hz	86	81
250 Hz	97	94
500 Hz	93	88
1,000 Hz	94	84
2,000 Hz	92	81
4,000 Hz	87	77
8,000 Hz	85	80



*Installation Height Range: 39.875"- 40.125"

*Installation Width Range: 115.5"- 116.125"

Job Name:
To:
Prepared By:
Date: 11/16/2022



AHU-2

QTY: 1

Performance

Airflow (total)	4,000 CFM
Airflow (each)	4,000 CFM
Total Static Pressure	2.40"
Input HP (each)	2.55 HP
Max HP (each)	6.97 HP
Equiv BHP (each)	2.32 BHP
Operating RPM	1,867 RPM
Max RPM	2,570 RPM
System Efficiency	59.5%
Redundancy	0%

Physical

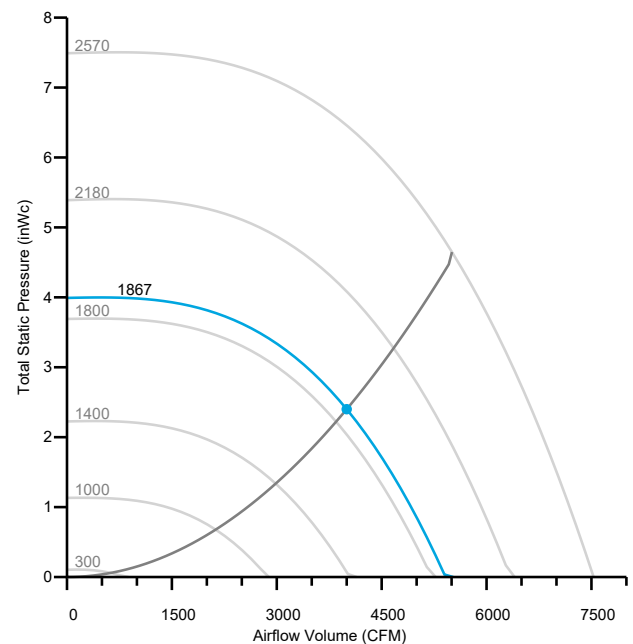
Bulkhead Width	52"
Bulkhead Height	32"
Quantity of Fans	1
Fan Model	FA1700078
Wheel Diameter	17.7"
Single Fan Weight	93 lbs
System Weight	198 lbs
Blade Material	HP Composite
Handing	Left
Backflow Device	Blank-Off Plate
Control Panel Width	15.0"
Control Panel Height	23.8"
Control Panel Depth	10.1"

Electrical

Electrical Supply	3~ 440-480V 60Hz
Single Fan FLA	7.32 A
System MCA	9.35 A
System MOC	15.00 A
QCB1 MCA	9.15 A
QCB2 MCA	-
SCC Rating	100 KAIC; Fused

Controls

Type	Basic
Rating	Indoor



Fan model is rated in accordance with AMCA Sound and Air Performance without Accessories. Performance shown is for Free Inlet/Free Outlet installations in accordance to DIN EN ISO 5801

Job Name: ZY Labs
To: Newark
Prepared By: Eric Burger <eburger@dbnj.com>
Date: 11/16/2022

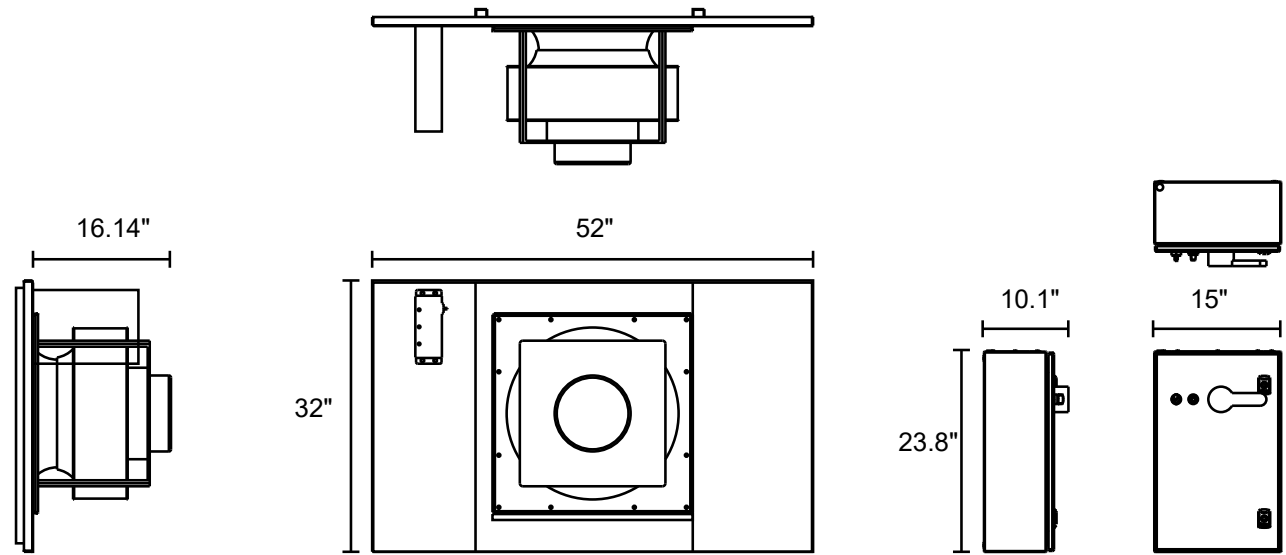
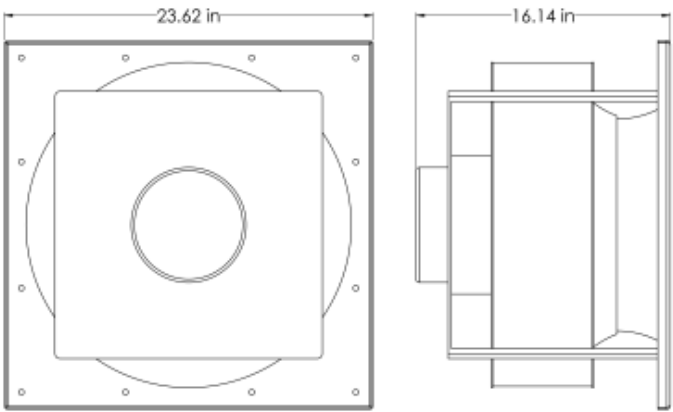


AHU-2

QTY: 1

System Sound Power (dB)

Frequency	System Discharge	System Inlet
63 Hz	74	73
125 Hz	77	73
250 Hz	85	80
500 Hz	82	78
1,000 Hz	82	71
2,000 Hz	79	68
4,000 Hz	75	64
8,000 Hz	72	66



*Installation Height Range: 31.875"- 32.125"

*Installation Width Range: 51.75"- 52.125"

Job Name:
To:
Prepared By:
Date: 11/16/2022



AHU-3

QTY: 2

Performance

Airflow (total)	10,000 CFM
Airflow (each)	5,000 CFM
Total Static Pressure	2.40"
Input HP (each)	3.43 HP
Max HP (each)	4.83 HP
Equiv BHP (each)	3.12 BHP
Operating RPM	2,119 RPM
Max RPM	2,260 RPM
System Efficiency	55.3%
Redundancy	56%

Physical

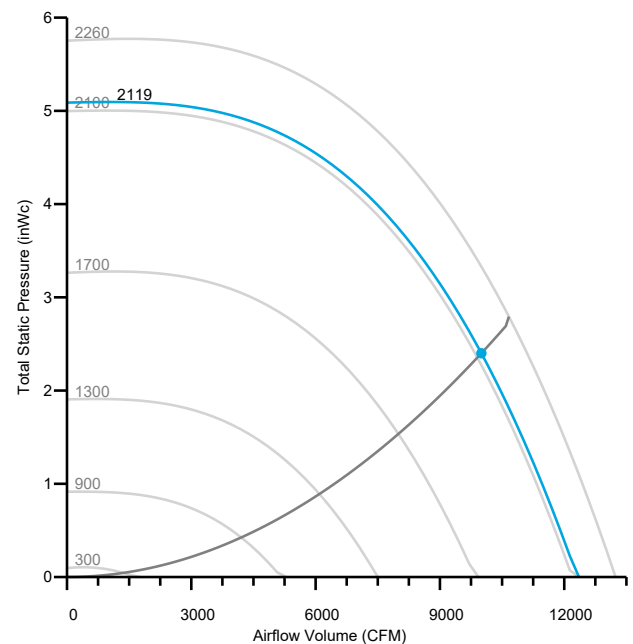
Bulkhead Width	88"
Bulkhead Height	38"
Quantity of Fans	2
Fan Model	FA1700077
Wheel Diameter	17.7"
Single Fan Weight	93 lbs
System Weight	344 lbs
Blade Material	HP Composite
Handing	Left
Backflow Device	Blank-Off Plate
Control Panel Width	15.0"
Control Panel Height	23.8"
Control Panel Depth	10.1"

Electrical

Electrical Supply	3~ 440-480V 60Hz
Single Fan FLA	5.08 A
System MCA	11.63 A
System MOC	15.00 A
QCB1 MCA	11.43 A
QCB2 MCA	-
SCC Rating	100 KAIC; Fused

Controls

Type	Basic
Rating	Indoor



Fan model is rated in accordance with AMCA Sound and Air Performance without Accessories. Performance shown is for Free Inlet/Free Outlet installations in accordance to DIN EN ISO 5801

Job Name:
To:
Prepared By:
Date: 11/16/2022

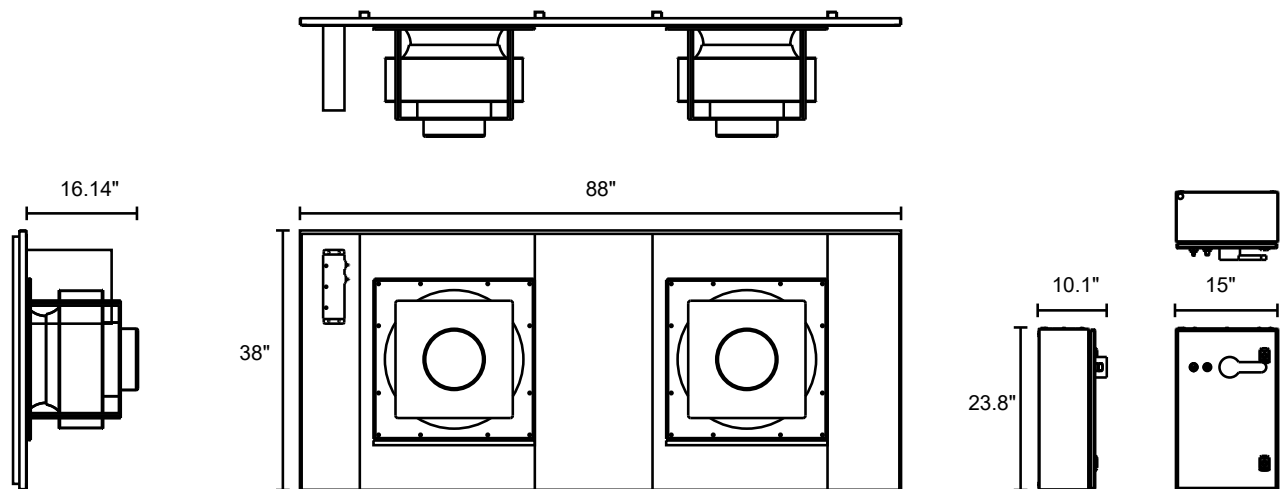
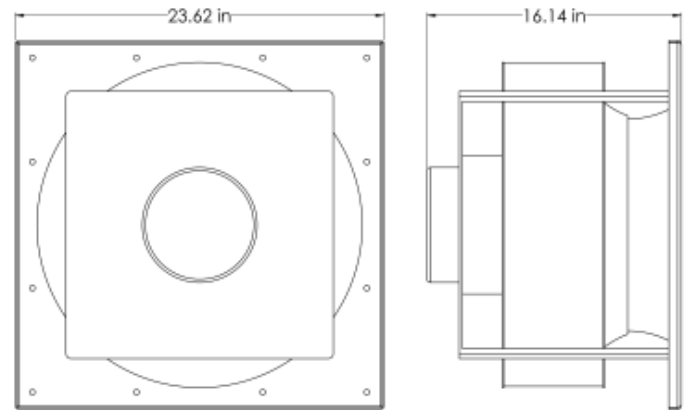


AHU-3

QTY: 2

System Sound Power (dB)

Frequency	System Discharge	System Inlet
63 Hz	81	80
125 Hz	83	79
250 Hz	92	88
500 Hz	89	84
1,000 Hz	89	80
2,000 Hz	87	76
4,000 Hz	82	72
8,000 Hz	82	78



*Installation Height Range: 37.875"- 38.125"

*Installation Width Range: 87.5"- 88.125"



PerfectPleat® HC M8 2" Filter

Description

The PerfectPleat HC M8 filter is designed to consistently increase efficiency throughout the service life of the filter. The PerfectPleat HC M8 filter is ideal for applications where pleated filters are currently used and higher performance is desired. It has an initial MERV 8 rating and the efficiency increases significantly when dust holding begins. PerfectPleat HC M8 filters have distinctive self-supporting characteristics that allow a pleating pattern, which promotes airflow and maximizes dust holding capacity (DHC). Lower pressure drop and higher DHC translate to reductions in energy consumption and operating costs.

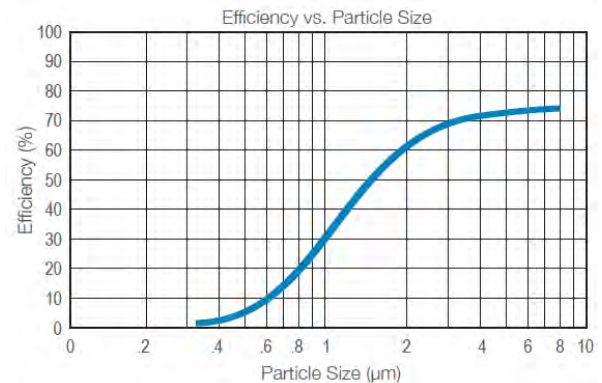
Support straps on the air-entering side are used in combination with uniquely designed pleat stabilizers on the air-leaving side of this 2" filter to provide additional strength. The support straps and pleat stabilizers ensure integrity against turbulent airflow. The 2" filter resists crushing and abuse and provides excellent lateral stability for installation in side-access systems.

Performance Data

PerfectPleat HC M8 2" Filter		
Pleats per lineal foot		15.0
Rated initial resistance (in. W.g.)	330 fpm	0.12
	500 fpm	0.23
	625 fpm	0.31
Recommended final resistance (in. W.g.)		1.0
MERV		8.0
Continuous operating temperature limits		150°F (66°C)



Composite Minimum Efficiency Curve



Tested in accordance with ASHRAE Standard 52.2.

Initial Resistance vs. Filter Face Velocity

