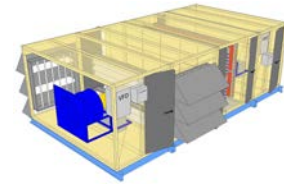


Job Information		Technical Data Sheet
Job Name	SLO Courthouse Annex	
Date	April 28 2022	
Submitted By	RM	
Software Version	12.82	
Unit Tag	AH-1&2 Revised	



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
OAH041GDGM	16000	2.00	3.29	66*	116*	164	16000	1.50	1.69	66*	116*	108

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

Unit			
Model Number:	OAH041GDGM		
Approval:	ETL Listed / ETL Listed to Canadian Safety Standards (ETL Label / ETLc Label)		
Outer Panel:	Painted 24 gauge G60 Galvanized Steel		
Liner:	24 gauge Galvanized Steel (unless noted per section)		
Insulation:	R-13 Injected Foam		
Unit Configuration:	Inline horizontal	Drive (Handling) Location:	Right
Base:	6" formed channel	Wall Thickness:	2 in
Roof Curb Kit:	0 in	Shipping Stretch Wrap:	Yes
Altitude:	0 ft	Parts Warranty:	Standard One Year

☒ NO EXCEPTIONS TAKEN


☐ MAKE CORRECTIONS NOTED

☐ REVISE AND RESUBMIT

☐ REJECTED

☐ REVIEWED FOR INFORMATION ONLY

REVIEWED ONLY FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND PER STIPULATIONS IN THE GENERAL CONDITIONS AND SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION PROCESS AND TECHNIQUES OF CONSTRUCTION, AND COORDINATING WORK WITH THAT OF OTHER TRADES.



  
 J. Albrecht P.E.  
 RAVATT-ALBRECHT & ASSOCIATES, INC.

May 26, 2022  
 DATE

Return/Exhaust Fan		Component: 1			Length: 54 in		Shipping Section: 1		
Fan Performance									
Air Volume	Static Pressure			Fan Energy Index(FEI)	Total Input Power	Fan Shaft Power	Speed		Outlet Velocity
	External	Total	Cabinet				Operating	Maximum	
16000 cfm	1.50 inWc	1.69 inWc	0.19 inWc	0.88	8.7 kW	10.47 BHP	1647 rpm	1981 rpm	0 ft/min
Fan Data									
Fan Type	Blade Type / Class	Quantity of Fans	Wheel Diameter	Material Type	Number of Blades	Discharge	Motor Location		
Centrifugal - Plenum	Airfoil / 2	1	27.00 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
15.0 HP	460/60/3 V/Hz/Phase	1750 rpm	Premium	ODP	254 T frame	Generic	4	111.01 A	18.00 A
Fan Options									
Seismic Restraint:		With snubbers			Inlet Screen:		Provided		
Isolator Type:		Spring							
VFD/Starter/Disconnect Data									
Selection Type:		VFD			Vendor:		Danfoss (FC102)		
Voltage:		460 v			Height x Width x Depth:		19.52 in x 12.03 in x 11.39 in		
Mounting:		Door Side			Enclosure:		NEMA 3R		
VFD Quantity:		1							
Door									
Location			Width			Opening			
Drive side			24 in			Outward			
Special Options									
Sound Baffle									
(As casing details)									
Special Text									
Louver on exhaust opening									

Economizer			Component: 2			Length: 54 in		Shipping Section: 2		
Portion	Damper					Blade Action	Rated CFM	Air Pressure Drop	Quantity	Hoods
	Size (length x width)		Location	Type	Actuation					
	Overall	Opening								
Outside Air	50 in x 56 in	44 in x 44 in	Right	Ruskin CD60	NA	Parallel	16000 cfm	0.11 inWc	1	Fitted - Factory installed
Return Air	28 in x 96 in	22 in x 84 in	Internal	Ruskin CD60	NA	Parallel	16000 cfm	0.03 inWc	2	N/A
Exhaust Air	50 in x 56 in	44 in x 44 in	Left	Ruskin CD60	NA	Parallel	16000 cfm	0.11 inWc	1	Fitted - Factory installed
Door										
Location			Width				Opening			
Non-drive side			30 in				Outward			

Panel Filter		Component: 3		Length: 12 in		Shipping Section: 3	
Type	Efficiency	Face Velocity		Face Area	Air Volume	Filter Loading	
Pre Pleat	MERV 13	364 ft/min		43.9 ft²	16000 cfm	Side	
Air Pressure Drop				Number of Filters	Height	Width	Depth
Clean Air	Mean Air	Dirty Air	User Spec				
0.23 inWc	0.61 inWc	1.00 inWc	N/A	9	20 in	24 in	2 in
				6	20 in	20 in	2 in
Door							
Location		Drive Side Door Width		Opp. Drv. Side Door Width		Opening	
Both sides		8 in		8 in		Outward	
Special Options							
Sound Baffle				Filter Gauge			
(As casing details)				Magnehelic 0-2"			

Combination Coil		Component: 4		Length: 32 in		Shipping Section: 3			
Chilled Water Coil									
Coil Model		Total Capacity	Sensible Capacity	Number of Coils	Number of Rows	Fins per Inch	Tube Diameter	Tube Spacing (Face x Row)	
5WL1206B		625181 Btu/hr	442228 Btu/hr	2	6	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					
16000 cfm	80.0 °F	67.0 °F	54.7 °F	54.4 °F	0.72 inWc	24 in	103 in	34.33 ft²	466 ft/min
Water		Flow Rate		Pressure Drop	Velocity	Volume	Weight	Piping Vestibule	
Entering	Leaving								
45.0 °F	60.0 °F	83.20 gpm		11.50 ftHd	3.70 ft/s	27.0 gal	226.00 lb	- in	
Connection [Data Per Coil]					Min. Fin Surface Temp.	Min. Tube Wall Surface Temp.	Fouling Factor		
Type	Size	Location	Material						
Threaded	2.00 in	Opp 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			
Component performance shown is based on the component air volume shown.									
Static pressure shown is based on the component air volume shown.									
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>							
Reheat Hot Water Coil									
Coil Model		Total Capacity	Number of Coils	Number of Rows	Fins per Inch	Tube Diameter	Tube Spacing (Face x Row)		
5WH1101C		533348 Btu/hr	2	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							
16000 cfm	45.0 °F	75.5 °F	0.17 inWc	24 in	100 in	33.33 ft²	480 ft/min		
Water		Flow Rate		Pressure Drop	Velocity	Volume	Weight	Piping Vestibule	
Entering	Leaving								
160.0 °F	119.1 °F	26.10 gpm		1.50 ftHd	1.70 ft/s	6.0 gal	56.00 lb	- in	
Connection [Data Per Coil]					Min. Fin Surface Temp.	Min. Tube Wall Surface Temp.	Fouling Factor		
Type	Size	Location	Material						
Threaded	1.50 in	Opp drive side	Carbon steel	119.1 °F	119.1 °F	0.000			
Material									
Fin		Tube		Header		Case			
Aluminum .0075 in		Copper .020 in		Copper		Galv. steel			
Component performance shown is based on the component air volume shown.									
Static pressure shown is based on the component air volume shown.									
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>							
Panel									
Location			Width			Opening			
Removable panels			- in			Outward			

Access Section	Component: 5	Length: 16 in	Shipping Section: 3
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## Air Pressure Drop

0.00 inWc

## Door

Location	Drive Side Door Width	Opp. Drv. Side Door Width	Opening
Both sides	12 in	12 in	Outward

Supply Fan	Component: 6	Length: 50 in	Shipping Section: 4
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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	
16000 cfm	2.00 inWc	3.29 inWc	0.07 inWc	1.08	12.2 kW	14.82 BHP	1766 rpm	1981 rpm	0 ft/min

## Fan Data

Fan Type	Blade Type / Class	Quantity of Fans	Wheel Diameter	Material Type	Number of Blades	Discharge	Motor Location
Centrifugal - Plenum	Airfoil / 2	1	27.00 in	Aluminum	12	Top, single opening	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	1750 rpm	Premium	ODP	256 T frame	Generic	4	148.01 A	24.00 A

## Fan Options

Seismic Restraint:	With snubbers	Isolator Type:	Spring
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## VFD/Starter/Disconnect Data

Selection Type:	VFD	Vendor:	Danfoss (FC102)
Voltage:	460 v	Height x Width x Depth:	19.52 in x 12.03 in x 11.39 in
Mounting:	Door Side	Enclosure:	NEMA 3R
VFD Quantity:	1		

## Door

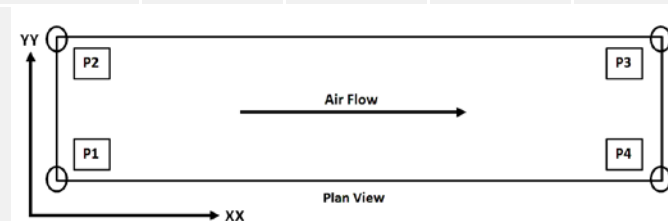
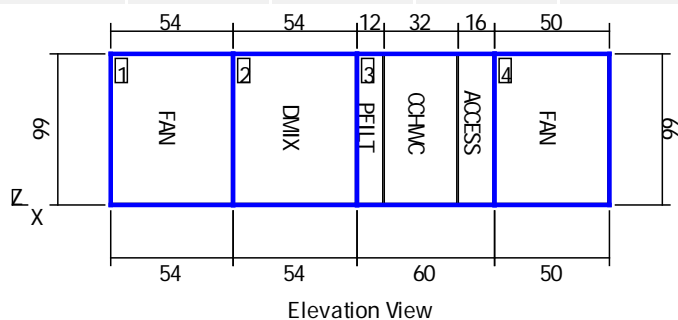
Location	Width	Opening
Drive side	22 in	Outward

## Unit Sound Power (dB)

Type	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Radiated:	81	76	78	70	73	66	52	51
Unit Discharge:	89	84	91	89	93	91	88	80
Unit Return:	82	80	93	84	84	85	80	72

### Shipping Section Details

Section	Length in	Weight lb	Corner Weights (lb)				Center of Gravity (in)		
			P1	P2	P3	P4	XX	YY	ZZ
1	54	2043	555	525	427	457	24	56	29
2	54	1147	267	267	267	267	27	58	35
3	60	2546	697	725	576	548	26	59	35
4	50	1937	539	509	430	460	23	56	30
<b>Entire Unit</b>	<b>218</b>	<b>7673</b>	<b>1831</b>	<b>1800</b>	<b>1926</b>	<b>1957</b>	<b>113</b>	<b>58</b>	<b>32</b>



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

### Supply Static Pressure Drop

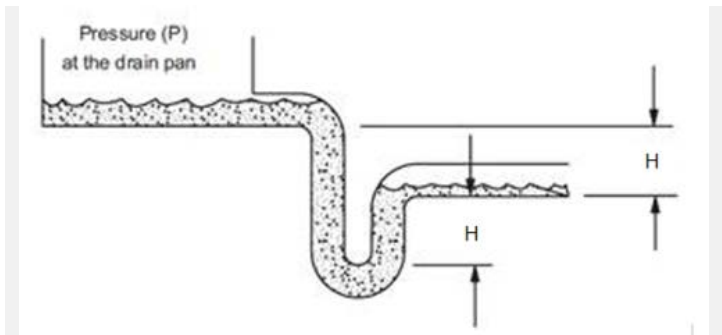
Component	Option	Static Pressure Drop
Economizer	Damper	0.11 insWg
Panel Filter	Panel Filter	0.23 insWg
Combination Coil	Chilled Water Coil	0.72 insWg
Combination Coil	Reheat Water Coil	0.17 insWg
Access Section	Access Section	
Supply Fan	Cabinet	0.07 insWg
External Static	External Static	2.00 insWg
<b>Total Supply Fan Static</b>		<b>3.29 insWg</b>

### Exhaust Static Pressure Drop

Component	Option	Static Pressure Drop
Return Fan	Cabinet	0.08 insWg
Economizer	Damper	0.11 insWg
External Static	External Static	1.50 insWg
<b>Total Return/Exhaust Fan Static</b>		<b>1.69 insWg</b>

Minimum Recommended Drain Pan Trap Dimensions

Shipping Section	Component	H
3	Combination Coil	2.10



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.

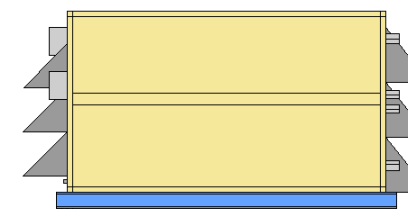
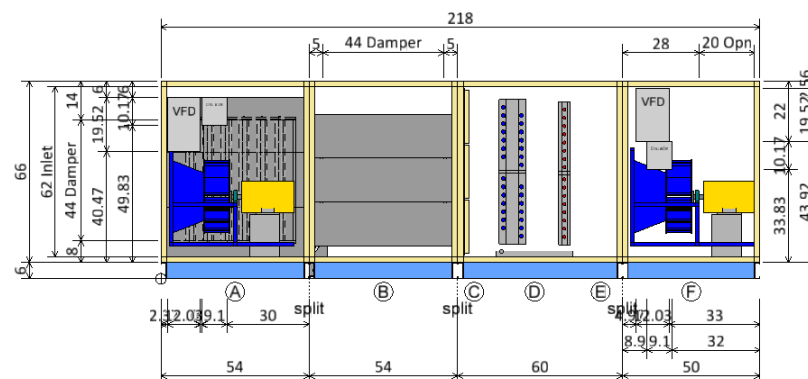
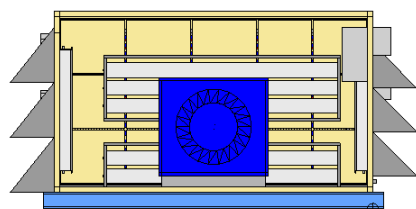
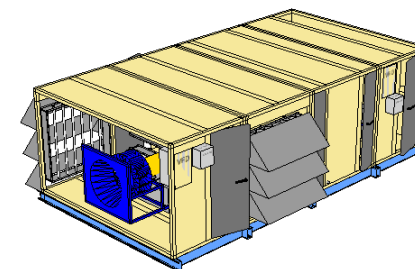
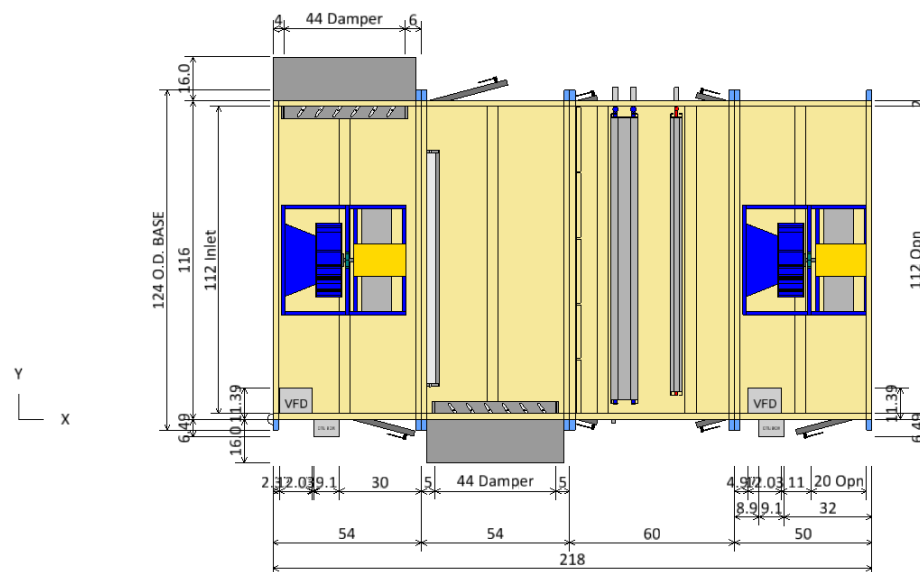
AHRI Certification




Certified in accordance with the AHRI Central Station Air-Handling Unit Certification Program, which is based on AHRI Standards 430/431. Certified units may be found in the AHRI Directory at [www.ahridirectory.org](http://www.ahridirectory.org).

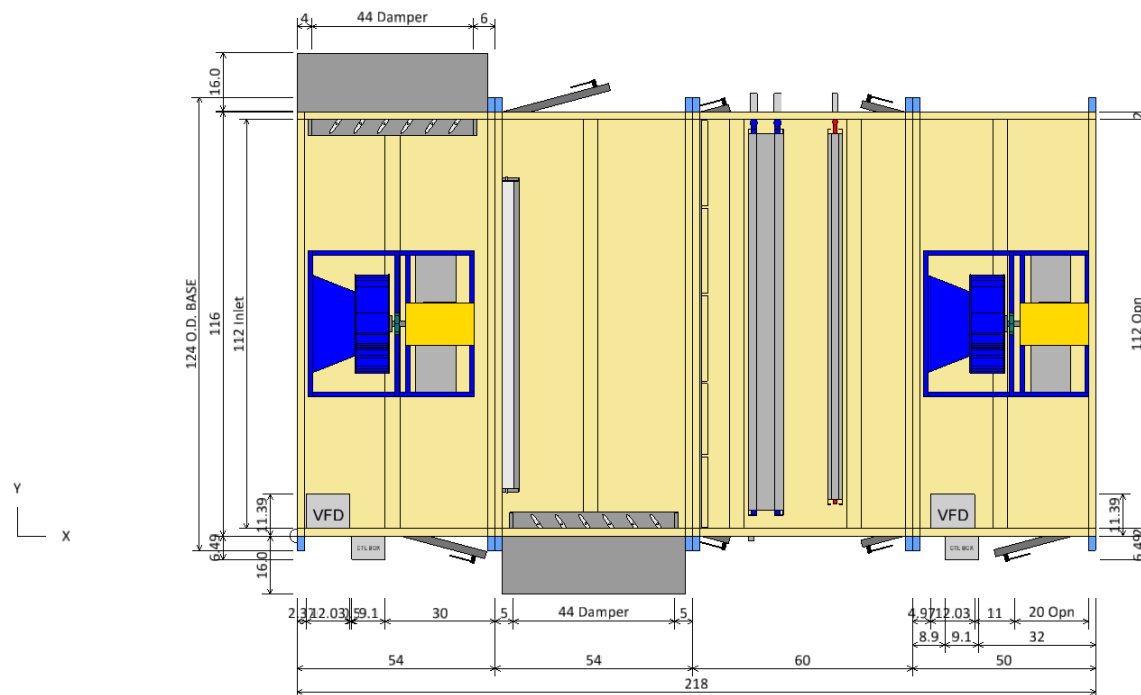
Notes

Important
1. This unit may not meet ASHRAE Standard 90.1 - 2016 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 - 2016 has been adopted in the specific jurisdiction or contract specifications in which the unit will be installed.

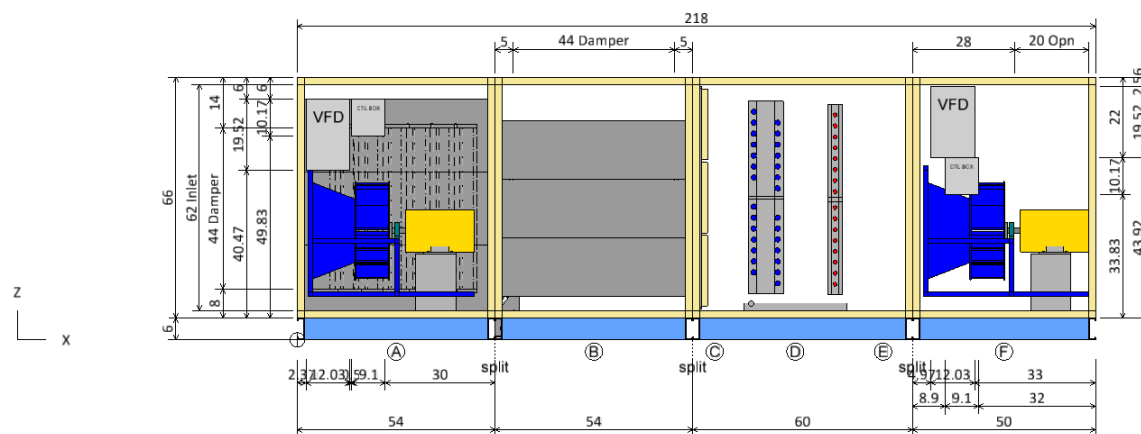


FRONT END VIEW				ELEVATION VIEW			REAR END VIEW	
Plan/Elevation		Unit Tag: AH-1&2 Revised			Sales Office: Norman S. Wright-Duckworth			  13600 Industrial Park Blvd, Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 12.82
Product: Skyline Air Handler		Project Name: SLO Courthouse Annex			Sales Engineer:			
Model: OAH041GDGM		May 2, 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

Return Fan	
Fan Type:	Centrifugal - Plenum
Fan Size (Class):	27 (2)
① Air Flowrate:	16000.0 cfm
T.S.P.:	1.7 insWg
Motor Power:	15.0 HP
Control box door swing:	9.10 ins
Right Door (WxH):	24 ins x 62 ins
Double Mixing Box	
② Left Door (WxH):	30 ins x 62 ins
Panel Filter	
Filter Type:	PrePleat (MERV 13)
③ Right Door (WxH):	8 ins x 62 ins
Left Door (WxH):	8 ins x 62 ins
Combination Coil	
Heating Coil Type:	Hot Water
Heating Model:	5WH1101C
④ Cooling Coil Type:	Cold Water
Cooling Model:	5WL1206B
Cooling Total Capacity:	625181.0 Btu/hr
Heating Total Capacity:	533348.0 Btu/hr
Access Section	
⑤ Right Door (WxH):	12 ins x 62 ins
Left Door (WxH):	12 ins x 62 ins
Supply Fan	
Fan Type:	Centrifugal - Plenum
Fan Size (Class):	27 (2)
⑥ Air Flowrate:	16000.0 cfm
T.S.P.:	3.3 insWg
Motor Power:	20.0 HP
Control box door swing:	9.10 ins
Right Door (WxH):	22 ins x 62 ins

Plan/Elevation - No Ends

Unit Tag: AH-1&2 Revised

Sales Office: Norman S. Wright-Duckworth

Product: Skyline Air Handler

Project Name: SLO Courthouse Annex

Sales Engineer:

Model: OAH041GDGM

May 2, 2022

Ver/Rev:

Sheet: 1 of 1

Scale: NTS

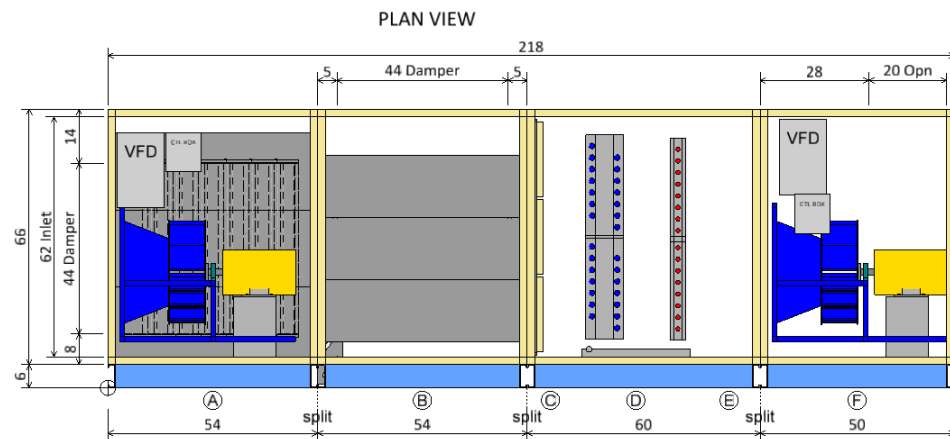
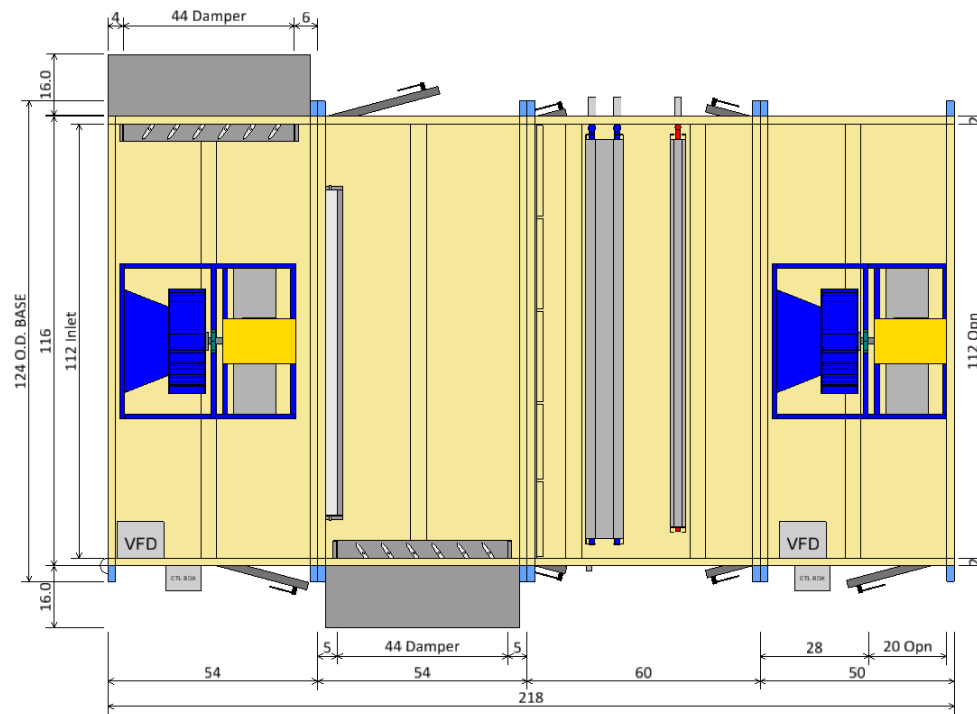
Tolerance: +/-0.25"

Dwg Units: in



13600 Industrial Park Blvd, Minneapolis, MN 55441  
www.DaikinApplied.com Software Version: 12.82

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						
Type	X	Y	Z	Wid	Hgt	
(A) Return Fan Opening	0.00	2.00	8.00	112.00	62.00	
Fan Discharge	0.00	116.00	8.00	52.00	56.00	
(B) Double Mixing Box	59.00	0.00	14.00	44.00	44.00	
Outside air damper						
(F) Supply Fan	196.00	2.00	72.00	112.00	20.00	
Fan Discharge						

Note: Dimensions are measured from the origin point.

#### Opening/Damper Connections

Product: Skyline Air Handler

Model: OAH041GDGM

Unit Tag: AH-1&2 Revised

Project Name: SLO Courthouse Annex

May 2, 2022

Ver/Rev:

Sheet: 1 of 1

Sales Office: Norman S. Wright-Duckworth

Sales Engineer:

Scale: NTS

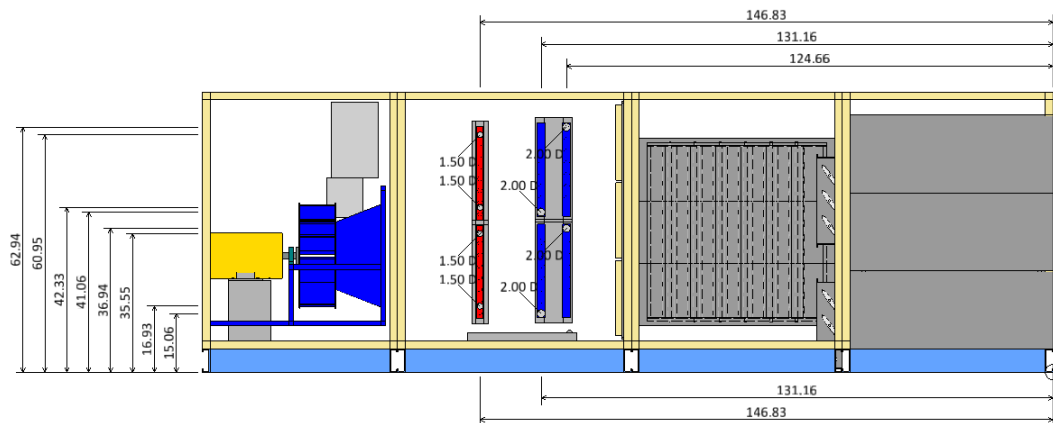
Tolerance: +/-0.25"

Dwg Units: in

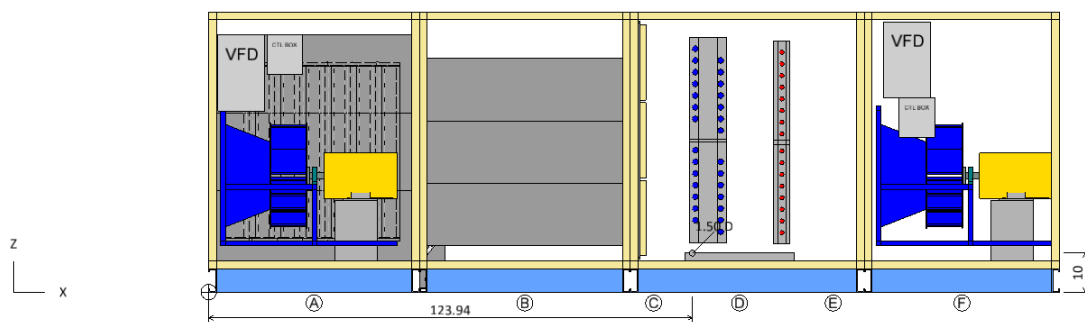


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www.DaikinApplied.com Software Version: 12.82

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

Coil and Drain Connections				
Type	X	Y	Z	Diam
Combination Coil	123.94	-3.40	10.00	1.50
Condensate drain conn:	146.83	119.00	16.93	1.50
Hot water inlet:	146.83	119.00	35.55	1.50
Hot water outlet:	146.83	119.00	42.33	1.50
Hot water inlet:	146.83	119.00	60.95	1.50
Hot water outlet:	146.83	119.00	62.94	1.50
Cold water inlet:	131.16	119.00	15.06	2.00
Cold water outlet:	124.66	119.00	36.94	2.00
Cold water inlet:	131.16	119.00	41.06	2.00
Cold water outlet:	124.66	119.00	62.94	2.00


Note: Dimensions are measured from the origin point.

<b>Coil and Drain Connections</b>		Unit Tag: AH-1&2 Revised			Sales Office: Norman S. Wright-Duckworth			 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com    Software Version: 12.82
Product: Skyline Air Handler		Project Name: SLO Courthouse Annex			Sales Engineer:			
Model: OAH041GDGM		May 2, 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.								

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.



Note: Dimensions are measured from the origin point.

<b>Electrical Connections</b>		Unit Tag: AH-1&2 Revised		Sales Office: Norman S. Wright-Duckworth			 13600 Industrial Park Blvd, Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 12.82
Product: Skyline Air Handler		Project Name: SLO Courthouse Annex		Sales Engineer:			
Model: OAH041GDGM		May 2, 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.							



