



**HIPP  
DESIGN +  
CONSULTING**

# SHOP DRAWING / SUBMITTAL ACTION TICKET

CLIENT NAME	Eli Lilly
CONSTRUCTION MANAGER	BE&K
PROJECT NAME	Project Concord DAP
PROJECT NUMBER	G22131

<b>SUBMITTAL NUMBER:</b> #054		<b>SUBMITTAL TITLE:</b> Fan Coils Bldgs 4 & 6 Rev 2											
<b>CONTRACTOR / VENDOR:</b> Kirlin-Way Mechanical		<b>DATE RECEIVED:</b> 03MAR2023											
<b>RECEIVED BY:</b> NR		<b>DATE DUE:</b> 17MAR2023											
<b>DISPOSITION:</b> <input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> APPROVED AS NOTED <input type="checkbox"/> REVISE AND RESUBMIT <input type="checkbox"/> REJECTED, RESUBMIT <input checked="" type="checkbox"/> REVIEWED FOR INFO. ONLY		<b>DISTRIBUTION:</b> <table border="0"> <tr> <td><input type="checkbox"/> CIVIL _____</td> <td><input checked="" type="checkbox"/> ELECTRICAL <u>J. Millikin</u></td> </tr> <tr> <td><input type="checkbox"/> ARCHITECTURAL _____</td> <td><input checked="" type="checkbox"/> INST &amp; CONT. <u>J. Caplan</u></td> </tr> <tr> <td><input type="checkbox"/> STRUCTURAL _____</td> <td><input type="checkbox"/> PROJ. LEADER _____</td> </tr> <tr> <td><input checked="" type="checkbox"/> MECHANICAL <u>A. Anderson</u></td> <td><input type="checkbox"/> OTHER _____</td> </tr> <tr> <td><input type="checkbox"/> PROCESS _____</td> <td></td> </tr> </table>		<input type="checkbox"/> CIVIL _____	<input checked="" type="checkbox"/> ELECTRICAL <u>J. Millikin</u>	<input type="checkbox"/> ARCHITECTURAL _____	<input checked="" type="checkbox"/> INST & CONT. <u>J. Caplan</u>	<input type="checkbox"/> STRUCTURAL _____	<input type="checkbox"/> PROJ. LEADER _____	<input checked="" type="checkbox"/> MECHANICAL <u>A. Anderson</u>	<input type="checkbox"/> OTHER _____	<input type="checkbox"/> PROCESS _____	
<input type="checkbox"/> CIVIL _____	<input checked="" type="checkbox"/> ELECTRICAL <u>J. Millikin</u>												
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<input type="checkbox"/> STRUCTURAL _____	<input type="checkbox"/> PROJ. LEADER _____												
<input checked="" type="checkbox"/> MECHANICAL <u>A. Anderson</u>	<input type="checkbox"/> OTHER _____												
<input type="checkbox"/> PROCESS _____													

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction, coordination of his work with that of all other trades, and the satisfactory performance of his work.

**REMARKS:**

SUBMITTAL REVIEWED AND APPROVED FOR RECORD / INFO.

Item #2 on PDF page 5: FCU tag numbers are still incorrect. Should be FCU-4941D and -4941E.

**FCU-4922A, FCU-4922B PAGE 11**

**FCU-4922C PAGE 24**

**FCU-4922D PAGE 34**

**FCU-4940A, FCU-4940B PAGE 45**

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**FCU-4940D PAGE 69**

**FCU-4940E PAGE 79**

**FCU-4940F PAGE 89**

**FCU-4941D PAGE 100**

**FCU-4941E PAGE 121**

Adam Anderson, P.E.  
 \_\_\_\_\_  
 PRIMARY DISCIPLINE LEAD

Mechanical  
 \_\_\_\_\_  
 DISCIPLINE

16MAR2023  
 \_\_\_\_\_  
 DATE



**BE&K Building Group**  
 100 Capitola Drive  
 Suite 301  
 Durham, North Carolina 27713  
 P: (919) 781-0054

**Project: 306232 Lilly — DAP, Warehouse Interface, + Central  
 Corridor Fit Out**  
 1420 Concord Parkway South  
 Concord, North Carolina 28027

## Submittal #23 82 19-14.2 - Fan Coils Bldgs 4 & 6 23 82 19 - Fan Coil Units

<b>Revision</b>	2	<b>Submittal Manager</b>	Dylan Driscoll (BE&K Building Group - Raleigh)
<b>Status</b>	Submitted	<b>Date Created</b>	Mar 3, 2023
<b>Issue Date</b>	Mar 3, 2023	<b>Spec Section</b>	23 82 19 - Fan Coil Units
<b>Responsible Contractor</b>	Kirlin-Way Mechanical, LLC	<b>Received From</b>	
<b>Received Date</b>	Dec 22, 2022	<b>Submit By</b>	Jan 6, 2023
<b>Final Due Date</b>	Mar 10, 2023	<b>Lead Time</b>	
		<b>Cost Code</b>	
<b>Location</b>		<b>Type</b>	Shop Drawings
<b>Approvers</b>	Dylan Driscoll (BE&K Building Group - Raleigh), Natasha Rampersaud (Hipp Engineering & Consulting Inc)		
<b>Ball in Court</b>	Natasha Rampersaud (Hipp Engineering & Consulting Inc)		
<b>Distribution</b>	Dylan Driscoll (BE&K Building Group - Raleigh), Kevin Lloyd (BE&K Building Group - Raleigh), Linda Reeves (BE&K Building Group - Raleigh), Jonathon Ross (Kirlin-Way Mechanical, LLC), Natasha Rampersaud (Hipp Engineering & Consulting Inc), Brandon Walker (Kirlin-Way Mechanical, LLC), Alex Stone (Hipp Engineering & Consulting Inc)		

**Description**

**Submittal Workflow**

Name	Sent Date	Due Date	Returned Date	Response	Attachments
General Information Attachments					<a href="#">Submittal #32 Fan Coil Units Bldgs 4 &amp; 6 Rev 2.pdf</a>
Dylan Driscoll	Mar 3, 2023	Mar 6, 2023	Mar 3, 2023	Reviewed	
Natasha Rampersaud	Mar 3, 2023	Mar 10, 2023		Pending	



KIRLIN-WAY MECH PROJECT NAME: Eli-Lilly Concord

KIRLIN WAY MECH  
SUBMITTAL NO: 010B

### SUBMITTAL DATA

ARCHITECT: Hansbury  
223 S. Wilmington Street, Suite 200  
Raleigh, NC 27601

Submittal Date: 3/3/2023

ENGINEER: HIPP Design & Consulting  
2301 Rexwoods Dr. #200  
Raleigh, NC 27607

GENERAL CONTRACTOR: BE&K  
SUBCONTRACTOR:

Specification Section: 23 82 19  
Description: Fan coils Bldg 4 & 6  
Vendor / Supplier: Hoffman & Hoffman  
Manufacturer: Daikin

Clarifications: FCU Revision 2

Deviations:

Substitutions:

Submittal Prepared By: Brandon Walker  
Phone: 704-340-0223  
Email: Bwalker@kirlinway.com

**LOCATION:** Raleigh, NC

**DATE:** 3/02/23

**SALESMAN:** Bennett Funderburk

**ORDER #** 620.621.1XXX

**PROJECT:** *ELI LILLY Project Concord*

**ENGINEER:** *HIPP*

**CONTRACTOR:** *Kirlin Way Mechanical*

**PRODUCT(S):** *Fan Coils rev 2*

**MANUFACTURER(S):** *Daikin*



**SUBMITTAL DATA**

**APPROVAL REQUIRED**

**HOFFMAN • HOFFMAN, INC.**

**HVAC Manufacturers Representative**

Website: [www.hoffman-hoffman.com](http://www.hoffman-hoffman.com)

Asheville, NC	(828) 296-0111	Charleston, SC	(843) 884-3201
Charlotte, NC	(704) 364-4700	Columbia, SC	(803) 765-9360
Raleigh, NC	(919) 781-8011	Greenville, SC	(864) 676-1888
Wilmington, NC	(910) 791-4775	Chesapeake, VA	(757) 548-1700
Chattanooga, TN	(423) 693-2890	Richmond, VA	(804) 272-1500
Knoxville, TN	(865) 540-9770	Roanoke, VA	(540) 725-8701

Corporate: Greensboro, NC (336) 292-8777

We have exercised care in the preparation of this submittal. We believe it satisfies our interpretation of the designer's intent and scope. It contains the list of materials, quantities, sizes, style and the finish as we propose to furnish for this job. Please examine and check carefully that all items are exactly as required and that our interpretation of the applicable plans and/or specifications are consistent with the design. Approval by the engineer and purchaser will be required before release of this equipment for production. If any discrepancies are discovered, please notify us as soon as possible.



**HOFFMAN & HOFFMAN, INC.**

2741 Noblin Rd., Suite 100  
 Raleigh, NC 27604  
 PHONE (919) 781-8011  
 FAX (919) 787-6019

3/2/2023

**Comments**

**Job: Eli Lilly Concord**

**Products: Fan coils**

wrong FCU numbers still.  
 This should be 4941 D  
 and E.

ITEM	RESPONSE
1	Acknowledged
2	Acknowledged
1	<del>Fan coils tags have been updated.</del>
2	FCU 4950 & 4958 do not have final filter racks. MERV 15 filters will be placed in the secondary filter rack prior to the fans
3	FCU 4960 & 4961 (new tags 4922A & 4922B) has been changed to top connection from contractor correspondence
4	FCU 4960 & 4961 (new tags 4922A & 4922B) hot water coil has be updated 60 degree leaving air conditions. GPM will be increased to 23 gpm to meet scheduled capacity of 175 MBH using same coil
5	FCU-4962 (new tag 4922C) GPM will be updated to get leaving air conditions
6	Unit controller for FCU's provided by others. Daikin can provide an interface board for wiring terminations. The EC motors utilized for these fan coil units do not offer separate inputs for start/stop and speed control nor do they offer an fault output signal. The EC motors will start when they receive a 2v signal and will ramp up accordingly. We recommend a current sensing relay provided by others for fault signal to the BMS.



## SUBMITTAL DATA

Job Name

ELI LILLY

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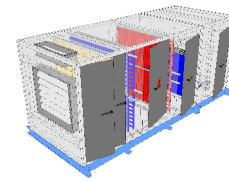
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Daikin Section Divider



Job Information		Technical Data Sheet	
Job Name	ELI LILLY		
Date	March 02 2023		
Submitted By	VP		
Software Version	13.04		
Unit Tag	FCU-4922A, FCU-4922B		



**Unit Overview**

Model Number	Air Volume cfm	Supply				
		Static Pressure		External Dimensions		
		External inWc	Total inWc	Height in	Width in	Length in
CAH021GDGM	7500	1.00	1.80	66*	64*	166

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

**Unit**


Model Number:	<b>CAH021GDGM</b>				
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:	<b>Inline horizontal</b>		Drive (Handling) Location:	Right	
Base:	6" formed channel		Wall Thickness:	2 in	
Shipping Stretch Wrap:	Yes		Tread Plate Floor Liner:	Tread plate installed (unless noted per section)	
Altitude:	705 ft		Parts Warranty:	Standard One Year	


**Mixing Box**      Component: 1      Length: 24 in      Shipping Section: 1

Custom Dampers							
Custom Damper	Damper Type	Location	Size (Width x Height)		Material	Blade Action	Rainhood w/ Screen
			Overall	Opening			
1	UltraSeal Low Leak	End	48 in x 36 in	38 in x 32 in	Galv. Steel	Parallel	None
2	UltraSeal Low Leak	Top	40 in x 12 in	30 in x 8 in	Galv. Steel	Parallel	None
Door							
Location		Width			Opening		
Drive side		20 in			Outward		

**Panel Filter**      Component: 2      Length: 12 in      Shipping Section: 1

Type	Efficiency	Face Velocity	Face Area	Air Volume	Filter Loading		
Pleated	MERV 8	316 ft/min	23.8 ft²	7500 cfm	Side		
Air Pressure Drop				Number of Filters	Height	Width	Depth
Clean Air	Mean Air	Dirty Air	User Spec	9	20 in	20 in	2 in
0.12 inWc	0.56 inWc	1.00 inWc	N/A				
Door							
Location		Width			Opening		
Drive side		8 in			Outward		
Special Options							
Tread Plate Floor Liner		Sound Baffle			Filter Gauge		
(As casing details)		(As casing details)			Minihelic II 0-2"		

Chilled Water Coil		Component: 3			Length: 44 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)		
5WH1205B	214841 Btu/hr	171560 Btu/hr	2	5	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						
7500 cfm	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb	0.42 inWc	27 in	51 in	19.12 ft <sup>2</sup>	392 ft/min
	72.9 °F	61.2 °F	51.4 °F	50.9 °F					
Water		Flow Rate		Pressure Drop	Velocity	Volume	Weight		
Entering	Leaving	35.40 gpm		3.60 ftHd	2.10 ft/s	14.0 gal	119.00 lb		
42.0 °F	54.1 °F								
Connection [Data Per Coil]					M in. Fin Surface Temp.	M in. Tube Wall Surface Temp.	Fouling Factor		
Type	Size	Location	Material				42.0 °F	42.0 °F	0.000
Threaded	1.50 in	Drive side	Carbon steel						
Material					Drain Pan		Drain Side		
Fin	Tube	Header	Case						
Aluminum .0075 in	Copper .020 in	Copper	Stainless 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			
Drive side		26 in		Outward		Round			
Special Options									
Sound Baffle									
(As casing details)									

Hot Water Coil		Component: 4			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)				
5WQ1001C	175070 Btu/hr	2	1	10	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							
7500 cfm	Dry Bulb	Dry Bulb		0.12 inWc	27 in	48 in	18.00 ft <sup>2</sup>	417 ft/min		
	60.0 °F	81.9 °F								
Water		Flow Rate		Pressure Drop	Velocity	Volume	Weight			
Entering	Leaving	23.00 gpm		3.10 ftHd	2.70 ft/s	5.0 gal	43.00 lb			
130.0 °F	114.8 °F									
Connection [Data Per Coil]					M in. Fin Surface Temp.	M in. Tube Wall Surface Temp.	Fouling Factor			
Type	Size	Location	Material				114.8 °F	114.8 °F	0.000	
Threaded	1.50 in	Drive side	Carbon steel							
Material					Header		Case			
Fin	Tube	Header		Case						
Aluminum .0075 in	Copper .020 in	Copper		Stainless steel						
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		Light				
Drive side		24 in		Outward		LED marine light kit and switch only				

<b>Supply Fan</b>	Component: 5	Length: 50 in	Shipping Section: 2
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**Fan Performance**

Air Volume	Static Pressure		Cabinet	Fan Energy Index(FEI)	Total Input Power	Fan Shaft Power	Speed		Outlet Velocity
	External	Total					Operating	Maximum	
7500 cfm	1.00 inWc	1.80 inWc	0.04 inWc	1.17	3.4 kW	3.73 BHP	1543 rpm	2403 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	22.25 in	Aluminum	9	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
7.5 HP	460/60/3 V/Hz/Phase	1750 rpm	Premium	ODP	213 T frame	Generic	4	70.56 A	9.80 A

**Fan Options**

Wheel Guard:	Provided	Seismic Restraint:	With snubbers
Inlet Screen:	Provided	Piezometer Ring:	Provided on Drive Side Fan
Piezometer Delta P:	7.81	Shaft Grounding Kit:	Provided
Isolator Type:	Spring		

**VFD/ Starter/ Disconnect Data**

Selection Type:	External J-Box	Vendor:	Factory Standard
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

**Door**

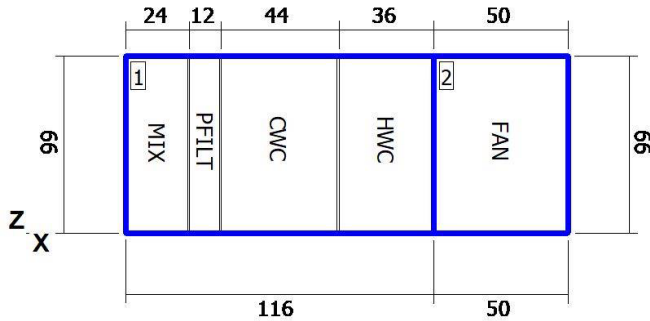
Location	Width	Opening	Window Type	Light
Drive side	26 in	Outward	Round	LED marine light kit and switch only

**Unit Sound Power (dB)**

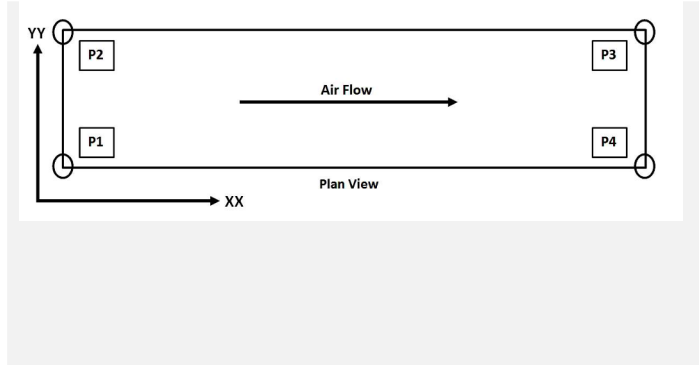
Type	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Radiated:	70	71	70	62	57	53	46	51
Unit Discharge:	80	71	85	79	79	81	79	68
Unit Return:	70	72	76	72	65	64	56	51

**Shipping Section Details**

Section	Length in	Weight lb	Corner Weights (lb)				Center of Gravity (in)		
			P1	P2	P3	P4	XX	YY	ZZ
1	116	2136	573	543	498	528	56	31	33
2	50	1026	300	296	213	217	21	32	29
<b>Entire Unit</b>	<b>166</b>	<b>3162</b>	<b>819</b>	<b>785</b>	<b>765</b>	<b>799</b>	<b>82</b>	<b>31</b>	<b>32</b>



**Elevation View**



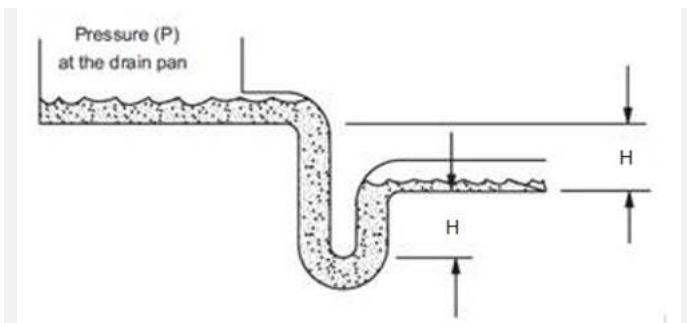
NOTE: Special components aren't included in the corner weights and center of gravity data.

**Supply Static Pressure Drop**

Component	Option	Static Pressure Drop
Mixing Box	Mixing Box	0.10 insWg
Panel Filter	Panel Filter	0.12 insWg
Chilled Water coil	Chilled Water coil	0.42 insWg
Hot Water Coil	Hot Water Coil	0.12 insWg
Supply Fan	Cabinet	0.04 insWg
External Static	External Static	1.00 insWg
<b>Total Supply Fan Static</b>		<b>1.80 insWg</b>

**Minimum Recommended Drain Pan Trap Dimensions**

Shipping Section	Component	H
1	Chilled Water coil	1.78



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.

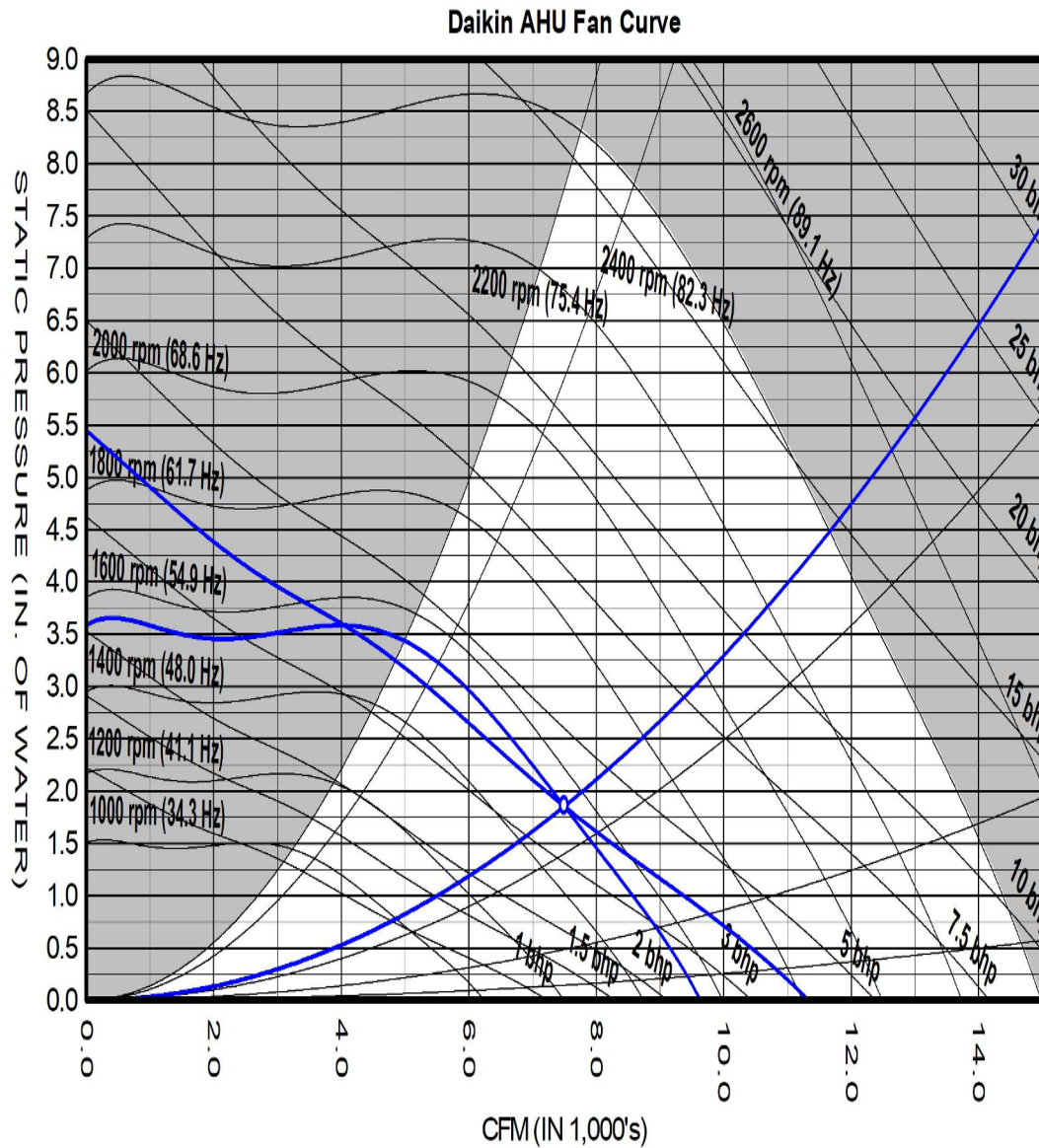
**AHRI Certification**



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****Standard**

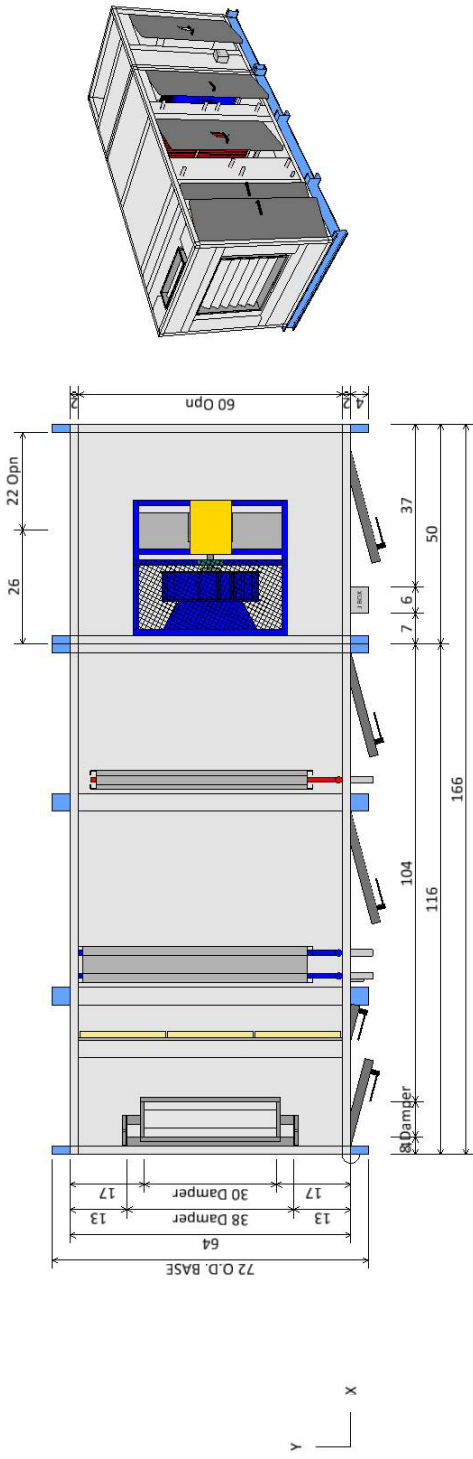
1. As a standalone component, unit meets or exceeds requirements of ASHRAE 90.1 - 2007. The approving authority is responsible for compliance of multi - component building systems.



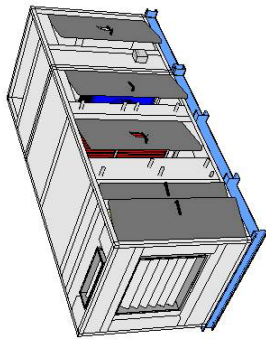
AF 22 DD PLENUM 9BL (100% Width) 1x1 Supply Fan at Standard Conditions					
Air volume	7500	cfm	Fan speed	1543	rpm
Total static	1.85	insVg	Max speed	2403	rpm
Fan Shaft Power	3.8	bhp	Efficiency	57.0	%
Approx VFD Setting	52.9	Hz	Motor Speed	1750	rpm
Fan Energy Index(FEI)	1.17				
Unit tagging	FCU-4922A, FCU-4922B		Date	March-02-2023	
Job name	ELI LILLY		Time	08:04	



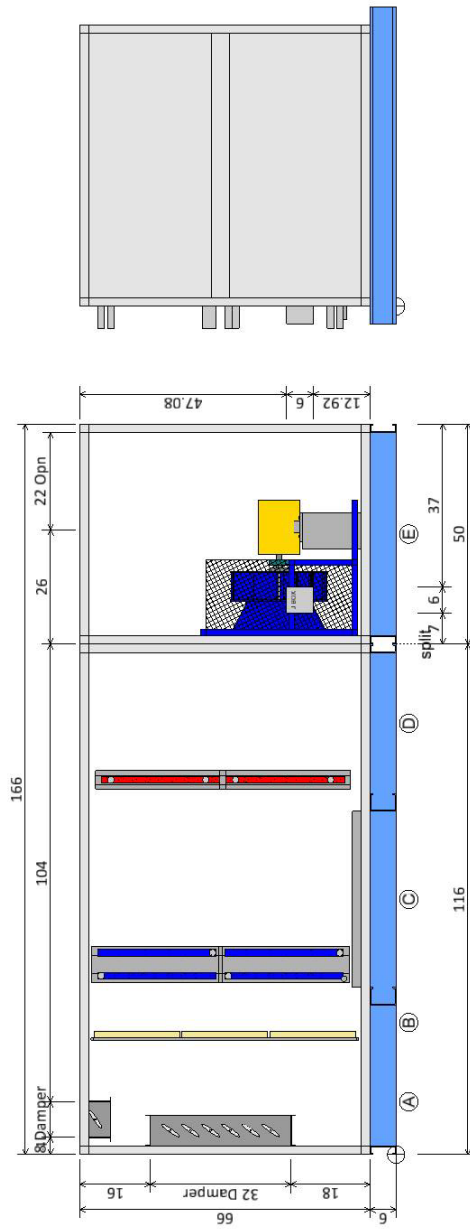
Supply fan performance is certified in accordance with the Central Station Air-Handling Unit Certification Program, which is based on AHRI Standard 430.



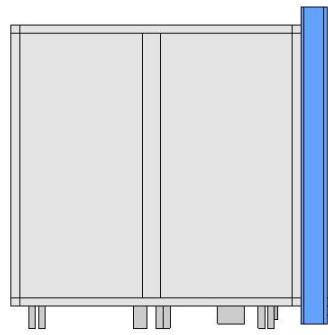
ISOMETRIC VIEW



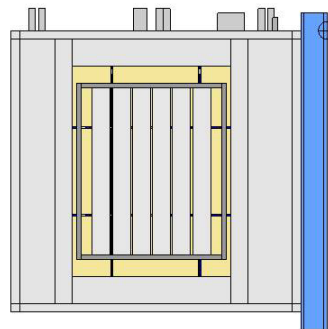
PLAN VIEW



REAR END VIEW



ELEVATION VIEW

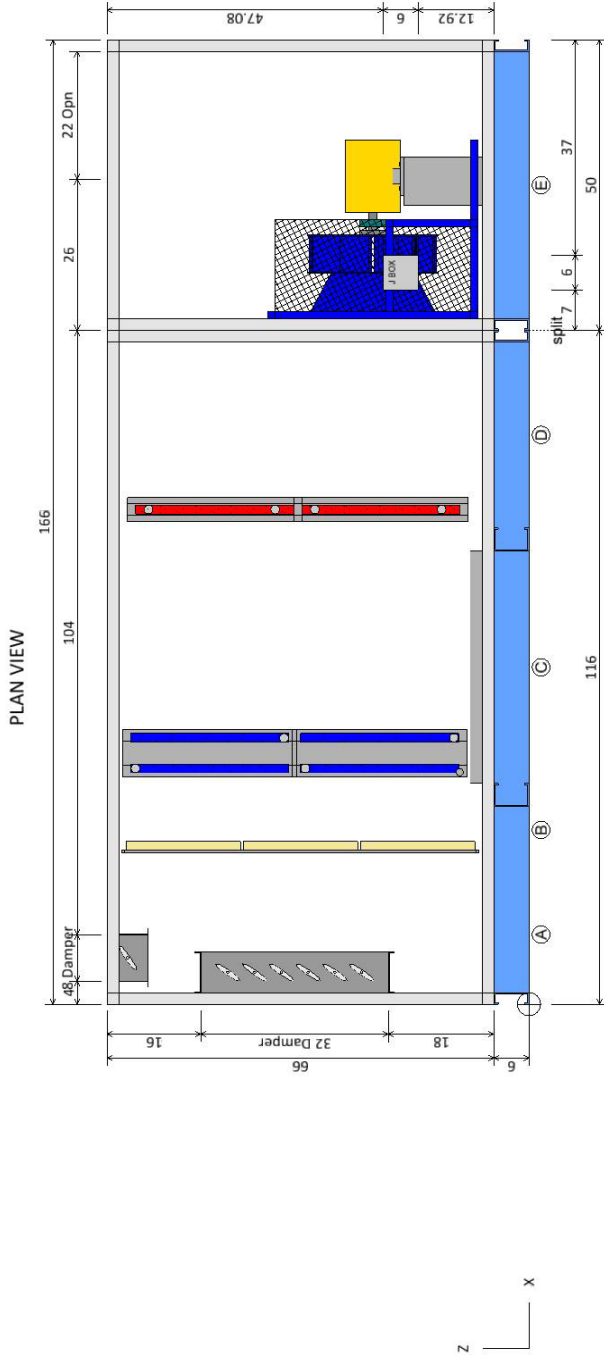
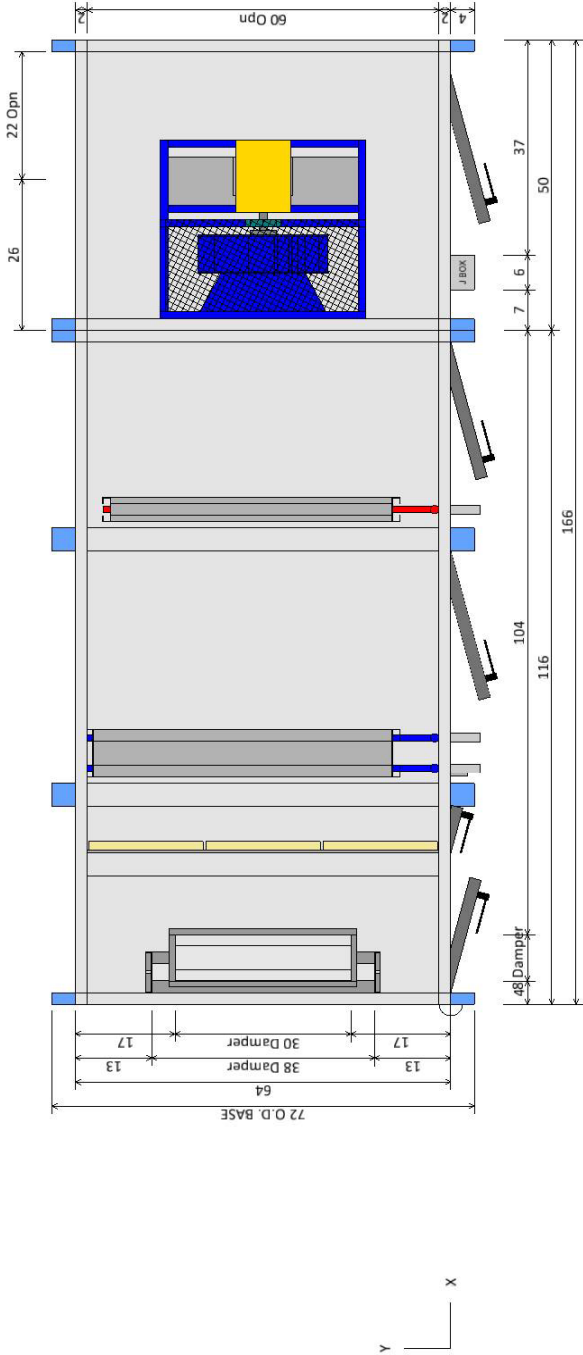


FRONT END VIEW

<b>Plan/Elevation</b>		Unit Tag: FCU-4922A, FCU-4922B		Sales Office: Hoffman & Hoffman, Inc.	
Product: Vision Air Handler		Project Name: ELI LILLY		Sales Engineer:	
Model: CAH021GDGM	Mar. 2, 2023	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.			Dwg Units: in		

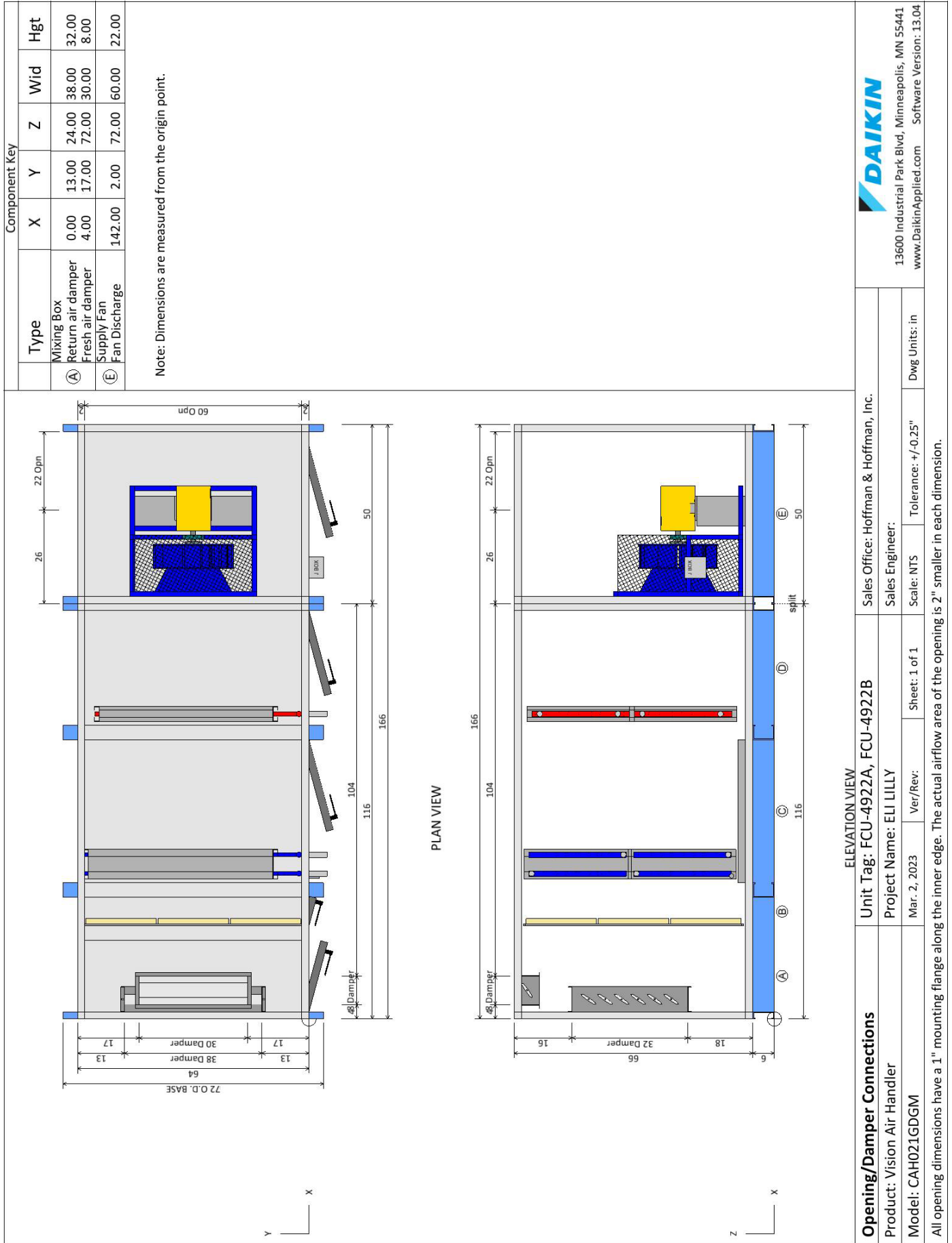
**DAIKIN**  
 13600 Industrial Park Blvd, Minneapolis, MN 55441  
 www.DaikinApplied.com Software Version: 13.04

Component Key	
(A)	Mixing Box Right Door (WxH): 20 ins x 62 ins
(B)	Panel Filter Filter Type: Pleated (MERV 8) Right Door (WxH): 8 ins x 62 ins
(C)	Chilled Water coil Coil Model: 5WH1205B Total Capacity: 214841.0 Btu/hr Right Door (WxH): 26 ins x 56 ins
(D)	Hot Water Coil Coil Model: 5WQ1001C Total Capacity: 175070.0 Btu/hr Right Door (WxH): 24 ins x 58 ins
(E)	Supply Fan Fan Type: Centrifugal - Plenum Fan Size (Class): 22 (2) Air Flowrate: 7500.0 cfm T.S.P.: 1.8 insWg Motor Power: 7.5 HP Right Door (WxH): 26 ins x 56 ins



ELEVATION VIEW			
<b>Plan/Elevation - No Ends</b>	<b>Unit Tag: FCU-4922A, FCU-4922B</b>	Sales Office: Hoffman & Hoffman, Inc.	
Product: Vision Air Handler	Project Name: ELI LILLY	Sales Engineer:	
Model: CAH021GDGM	Mar. 2, 2023	Ver/Rev:	Sheet: 1 of 1
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.		Scale: NTS	Tolerance: +/-0.25"
		Dwg Units: in	

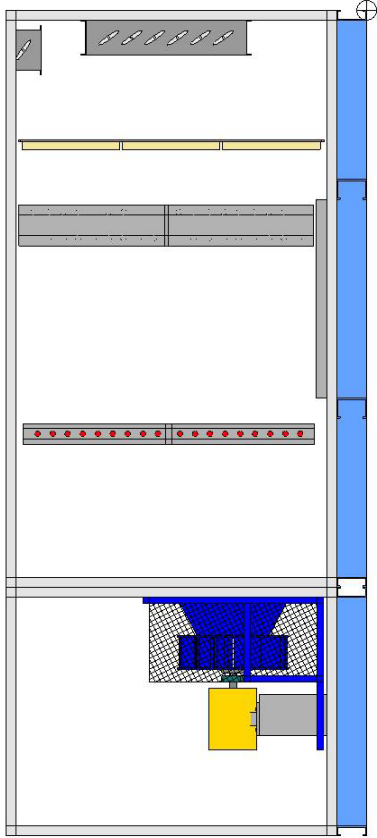




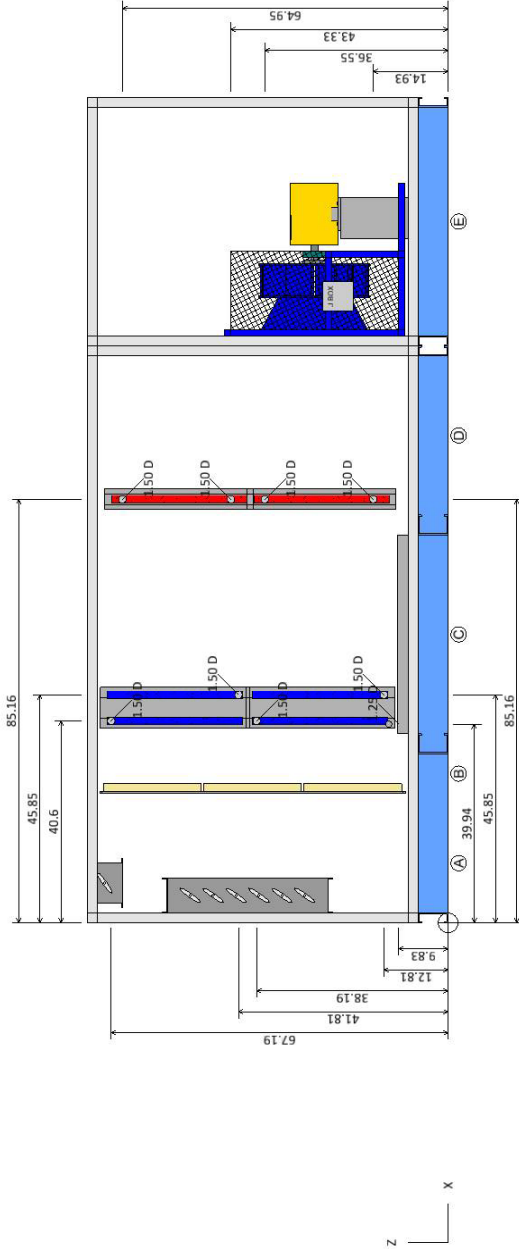
13600 Industrial Park Blvd, Minneapolis, MN 55441  
 www.DaikinApplied.com Software Version: 13.04

Coil and Drain Connections					
Type	X	Y	Z	Diam	
Chilled Water coil	39.94	-4.90	11.83	1.25	
Condensate drain conn:	45.85	-7.00	12.81	1.50	
Cold water inlet:	40.60	-7.00	38.19	1.50	
Cold water outlet:	45.85	-7.00	41.81	1.50	
Cold water inlet:	40.60	-7.00	67.19	1.50	
Hot Water Coil	85.16	-7.00	14.93	1.50	
Hot water inlet:	85.16	-7.00	36.55	1.50	
Hot water outlet:	85.16	-7.00	43.33	1.50	
Hot water inlet:	85.16	-7.00	64.95	1.50	

Note: Dimensions are measured from the origin point.



LEFT ELEVATION VIEW

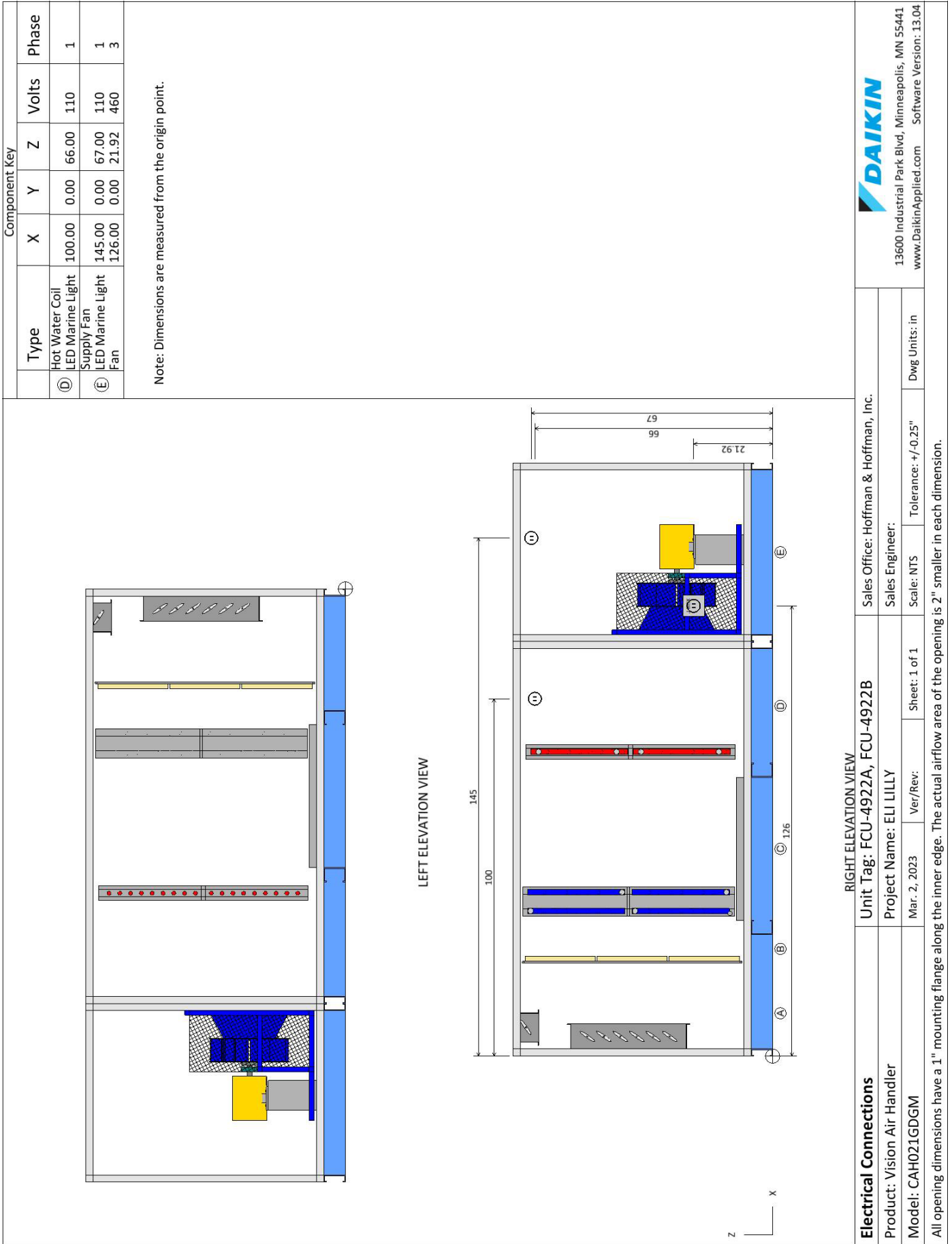


RIGHT ELEVATION VIEW

<b>Coil and Drain Connections</b>		Unit Tag: FCU-4922A, FCU-4922B		Sales Office: Hoffman & Hoffman, Inc.	
Product: Vision Air Handler		Project Name: ELI LILLY		Sales Engineer:	
Model: CAH021GDGM		Mar. 2, 2023 Ver/Rev:		Scale: NTS	
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.		Sheet: 1 of 1		Tolerance: +/-0.25"	
		Dwg Units: in		Software Version: 13.04	



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www.DaikinApplied.com

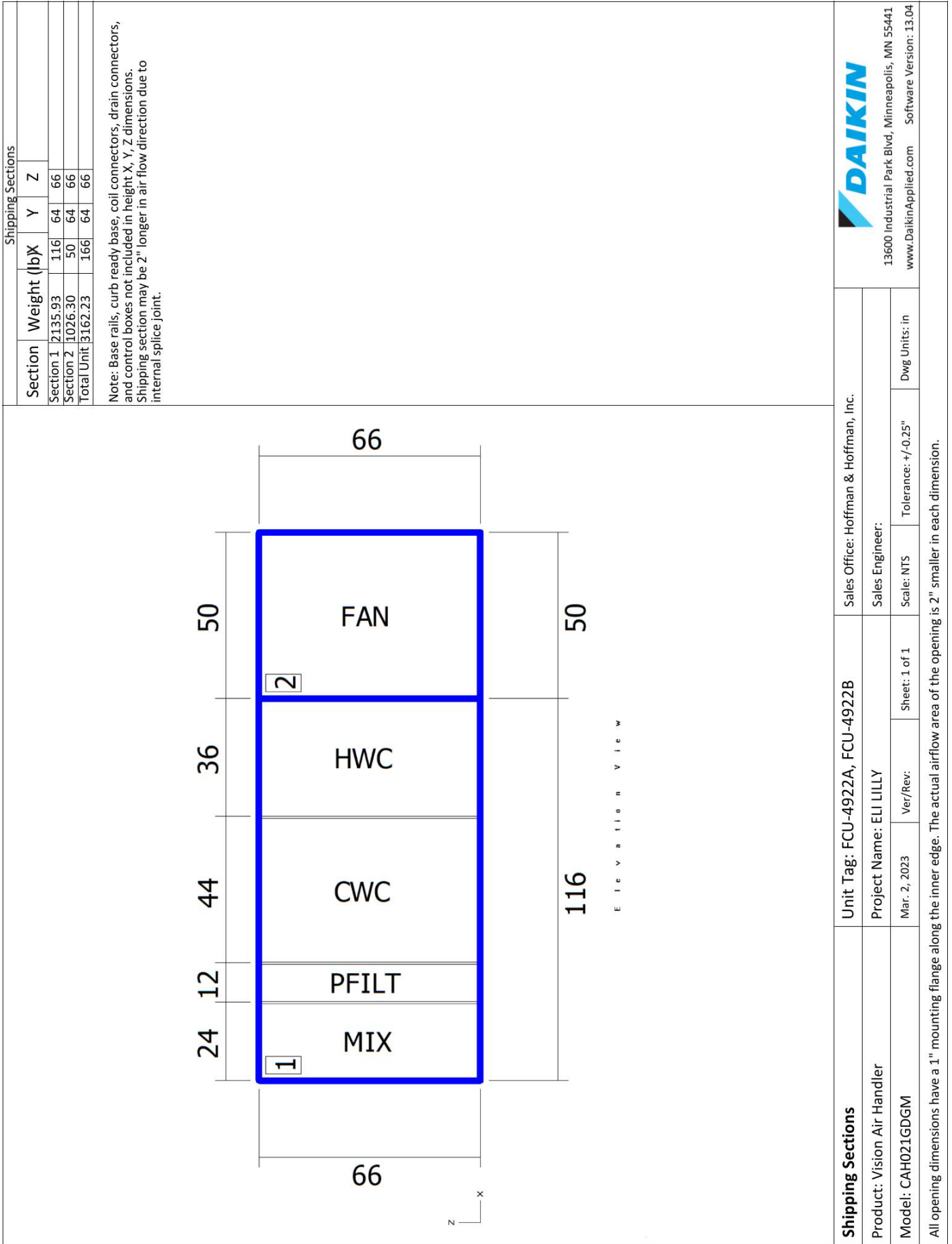


**DAIKIN**  
 13600 Industrial Park Blvd, Minneapolis, MN 55441  
 www.DaikinApplied.com Software Version: 13.04

Sales Office: Hoffman & Hoffman, Inc.  
 Sales Engineer:  
 Scale: NTS Tolerance: +/-0.25"  
 Dwg Units: in

RIGHT ELEVATION VIEW  
 Unit Tag: FCU-4922A, FCU-4922B  
 Project Name: ELI LILLY  
 Mar. 2, 2023 Ver/Rev: Sheet: 1 of 1

**Electrical Connections**  
 Product: Vision Air Handler  
 Model: CAH021GDGM  
 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.



13600 Industrial Park Blvd, Minneapolis, MN 55441  
www.DaikinApplied.com Software Version: 13.04

Sales Office: Hoffman & Hoffman, Inc.  
Sales Engineer:

Unit Tag: FCU-4922A, FCU-4922B

Project Name: ELI LILLY

Mar. 2, 2023 Ver/Rev: Sheet: 1 of 1

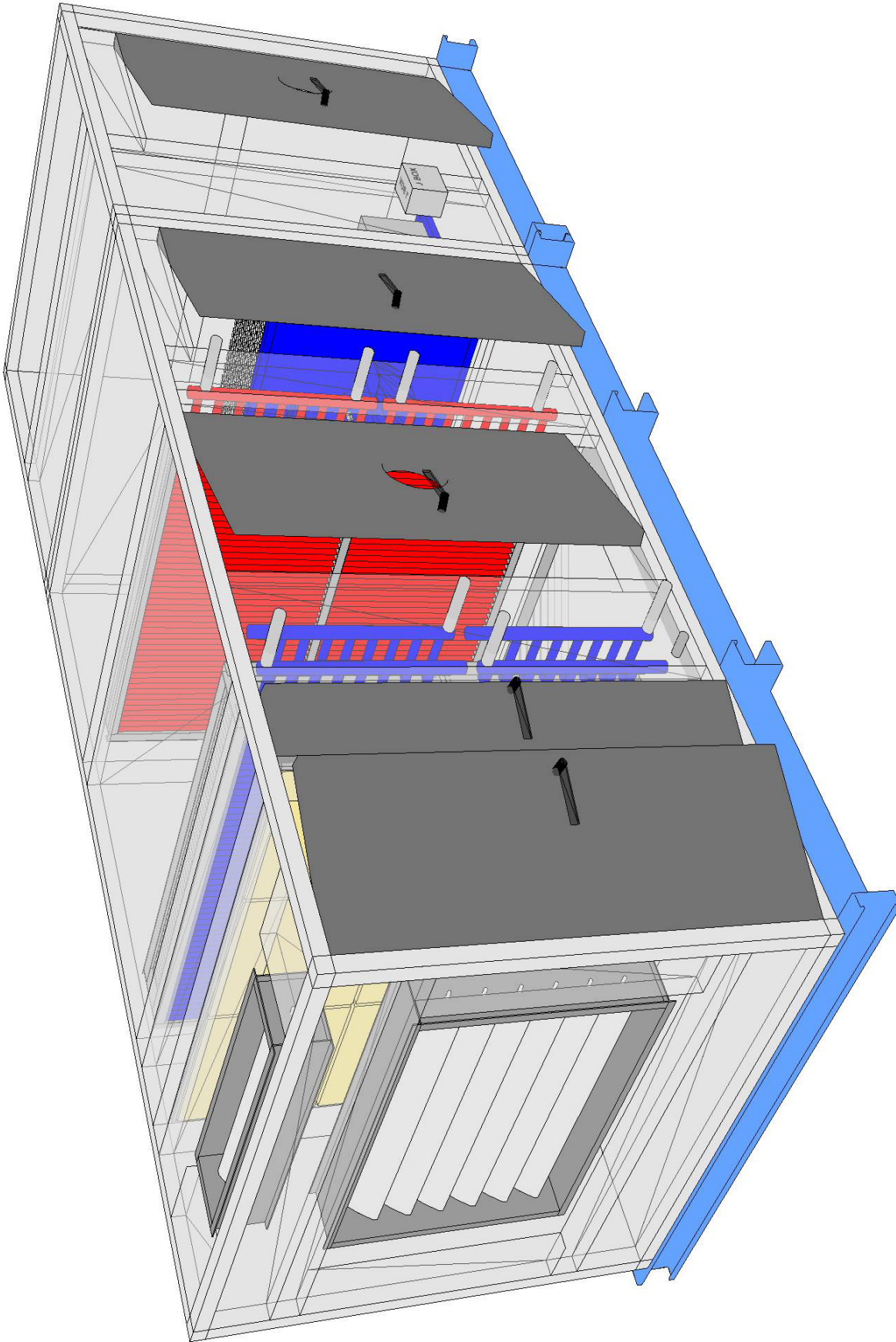
Scale: NTS Tolerance: +/-0.25" Dwg Units: in


**Shipping Sections**

Product: Vision Air Handler

Model: CAH021GDGM

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: FCU-4922A, FCU-4922B		Sales Office: Hoffman & Hoffman, Inc.	
	Product: Vision Air Handler		Sales Engineer:	
Model: CAH021GDGM	Mar. 2, 2023	Ver/Rev:	Sheet: 1 of 1	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.				
 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.04				

Job Information		Technical Data Sheet
Job Name	ELI LILLY	
Date	3/2/2023	
Submitted By	Vijay Periannan	
Software Version	05.60	
Unit Tag	FCU-4922C	



Unit Overview				
Model Number	Voltage V/Hz/Phase	Airflow CFM	External Static Pressure inH <sub>2</sub> O	Design Cooling Capacity Btu/hr
BCHE0301	460/60/3	1600	1.00	44016

Unit	
Model Number:	BCHE0301
Unit Arrangement:	Horizontal
Altitude:	705 ft

Physical			
Dimensions and Weight (wet)			
Length	Height	Width	Weight
40 in	26.0 in	49.0 in	547 lb
Construction			
Insulation and Liners:	1" Injected Foam, R-6, Galvanized Steel Liner		

Electrical			
Field Connection	M CA	M ROPD	SCCR
Toggle Disconnect Switch	7.0	15	5 kA

Filter			
Filter Access	Filter Depth	MERV Rating	(Quantity) Height x Width x Depth
Bottom	2 in	MERV 8	(2) 25.38 x 21.88

Primary Hydronic Coil					
Physical					
Fins per Inch	Rows	Casing Material	Face Area ft <sup>2</sup>	Face Velocity ft/min	
12	4	Stainless Steel	6.0	265.1	
Connection					
Size	Type	Location			
1.38	F-SWT	Left Hand			
Drain Pan					
Material	Connection				
Stainless Steel	0.75 in				
Performance					
Capacity		Air Temperature			
Total Btu/hr	Sensible Btu/hr	Entering		Leaving	
		Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F
44016	37167	72.0	60.0	50.2	49.8

Fluid				
Type	Entering Temperature °F	Leaving Temperature °F	Flow Rate gpm	Pressure Drop ft H <sub>2</sub> O
Water	42.0	53.7	7.5	3.55

**Supply Fan**

Performance							
Airflow	Total Static Pressure	Fan Speed	Controller Input Signal	Brake Horsepower	Total Input Power	Fan Energy Index	Altitude
1600.00 CFM	1.75 inH <sub>2</sub> O	1852 rpm	5.9 VDC	0.63 HP	0.76 HP	1.830	705 ft

Motor			
Type	Horsepower	Motor Control	FLA
Premium Efficiency	4.42 Hp	0-10V Modulating	5.6 A

**Unit Discharge Conditions**

Air Temperature			
Motor Heat Btu/hr	Unit Leaving Dry Bulb °F	Unit Leaving Wet Bulb °F	Unit Leaving Dewpoint °F
2378	51.6	50.3	49.3

**Internal Pressure Drop Calculation**

External Static Pressure:	1.00 inH <sub>2</sub> O
Filter:	0.07 inH <sub>2</sub> O
Dirty Filter:	0.50 inH <sub>2</sub> O
Chilled Water Coil:	0.18 inH <sub>2</sub> O
<b>Total Static Pressure:</b>	<b>1.75 inH<sub>2</sub>O</b>

**Options**

Controls	
Overflow Switch:	Factory mounted Overflow Switch

**Warranty**

Parts:	Standard warranty
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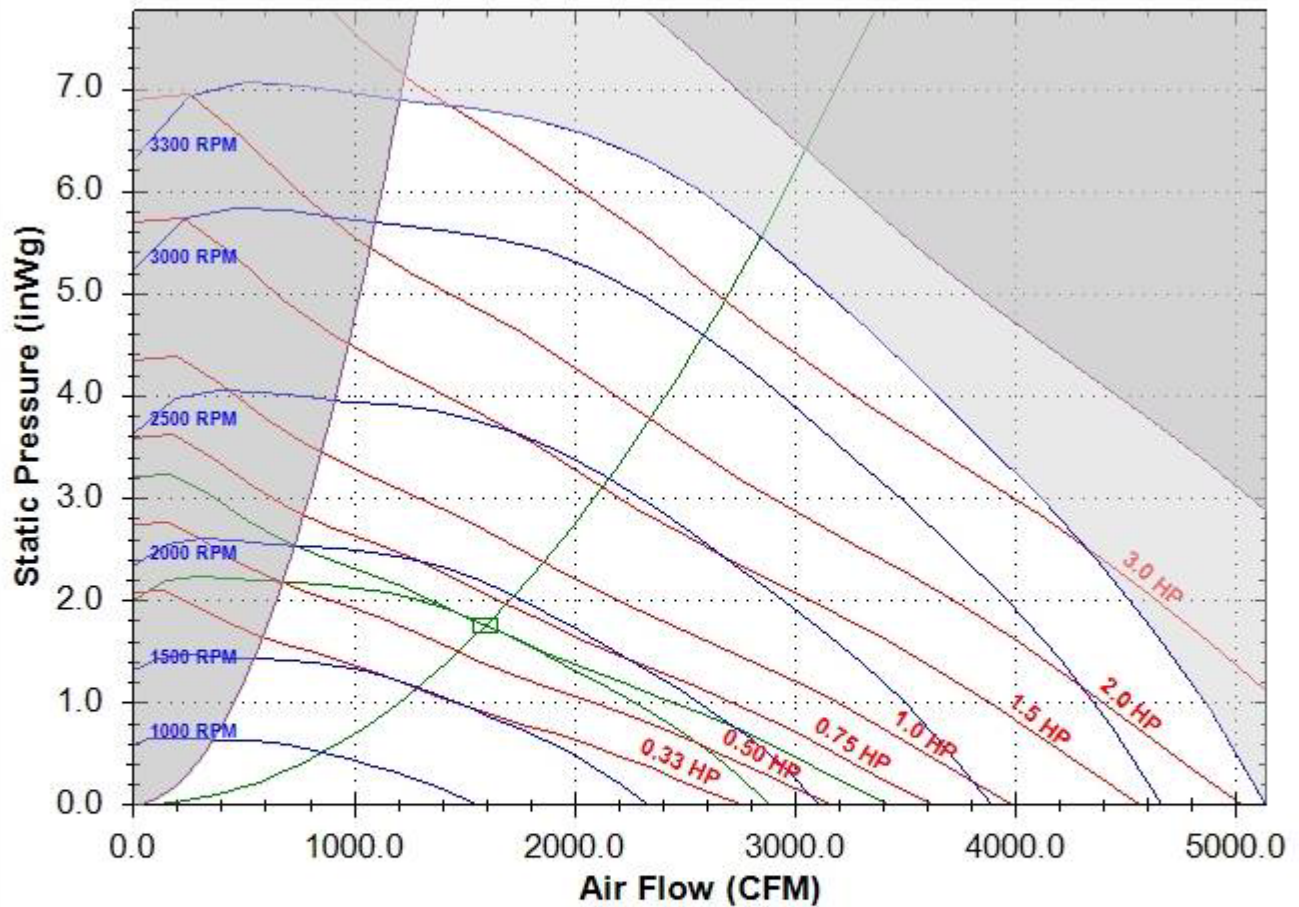
**AHRI Certification**



All equipment is rated and certified in accordance with AHRI 430.

**Notes**

### Daikin Air Handler Packaged Fan Selection



355.0 SWSI\_AF Supply Fan at 705 ft Altitude

Base Tag	FCU-4922C	Date	Mar-02-2023
Job Name	ELI LILLY	Time	8:02 AM
Air Volume	1600 CFM	Fan Speed	1852 RPM
Total Static	1.75 inWg	Max Speed	3300 RPM
Brake Horsepower	0.63 HP	Efficiency	69.5 %



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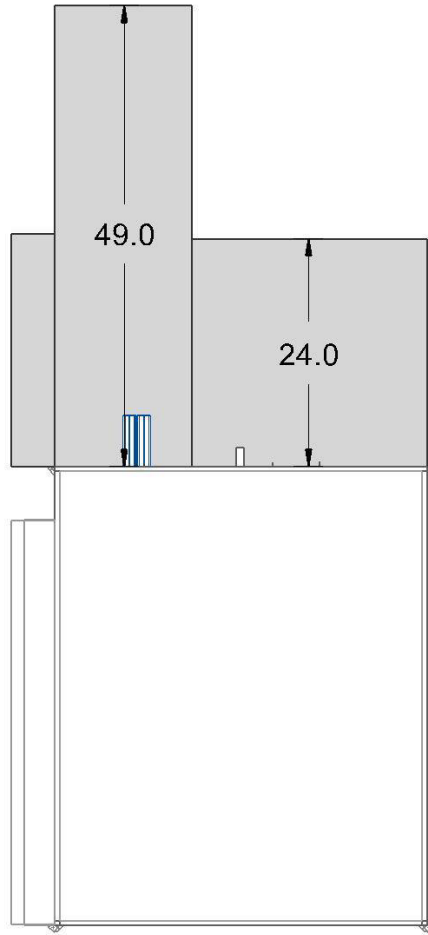
ELI LILLY

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FCU-4922C

Drawings(Clearance View)



PLAN VIEW - SERVICE CLEARANCE

<b>Clearance View</b>	Unit Tag: FCU-4922C			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

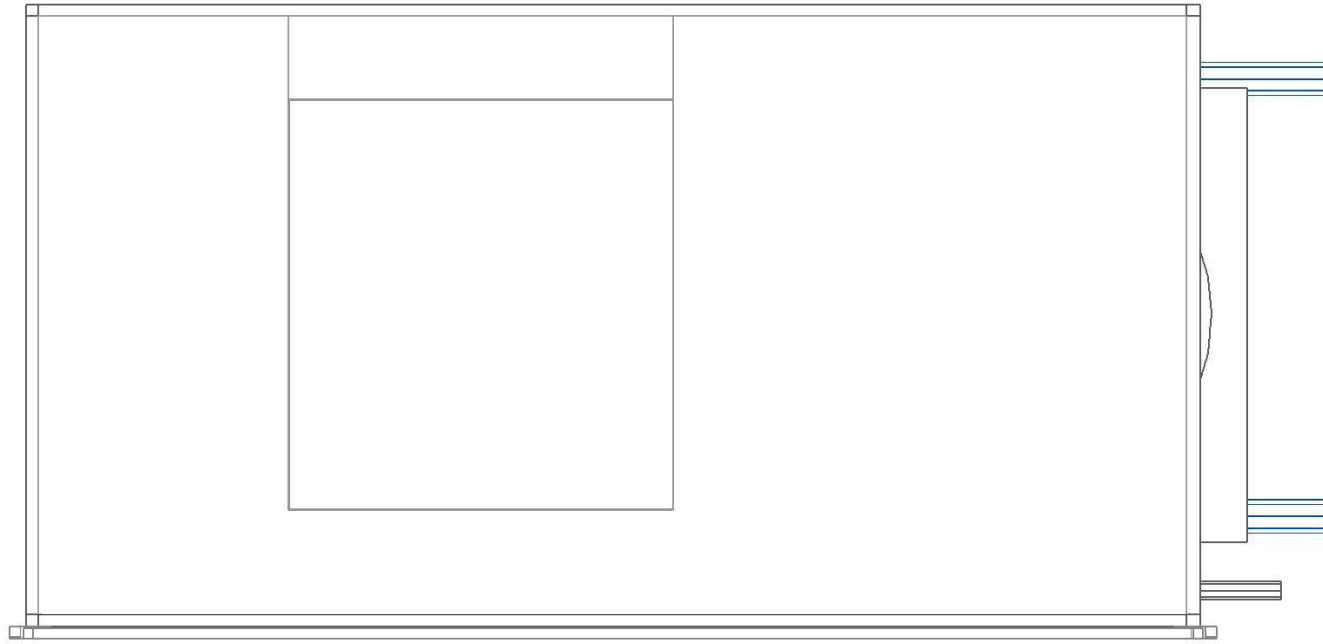
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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FCU-4922C

Drawings(Discharge View)

### DISCHARGE VIEW

<b>Discharge View</b>	Unit Tag: FCU-4922C	Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 05.60		
Product: PreciseLine® Air Handler	Project Name: ELI LILLY	Sales Engineer:					
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

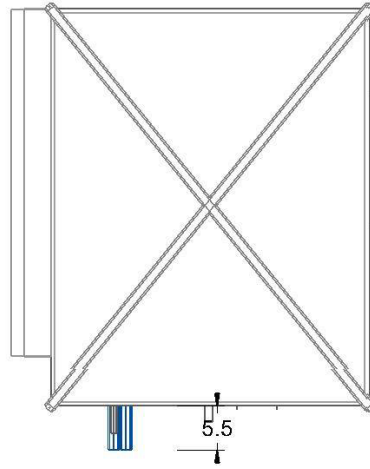
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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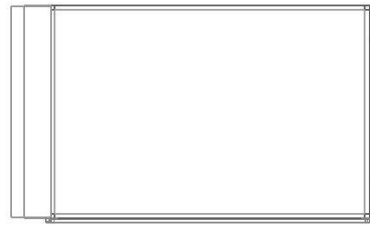
ELI LILLY

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BOTTOM VIEW



BACK VIEW

FCU-4922C

Drawings(Front Bottom)

<b>Front Bottom</b>		Unit Tag: FCU-4922C			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler		Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]		

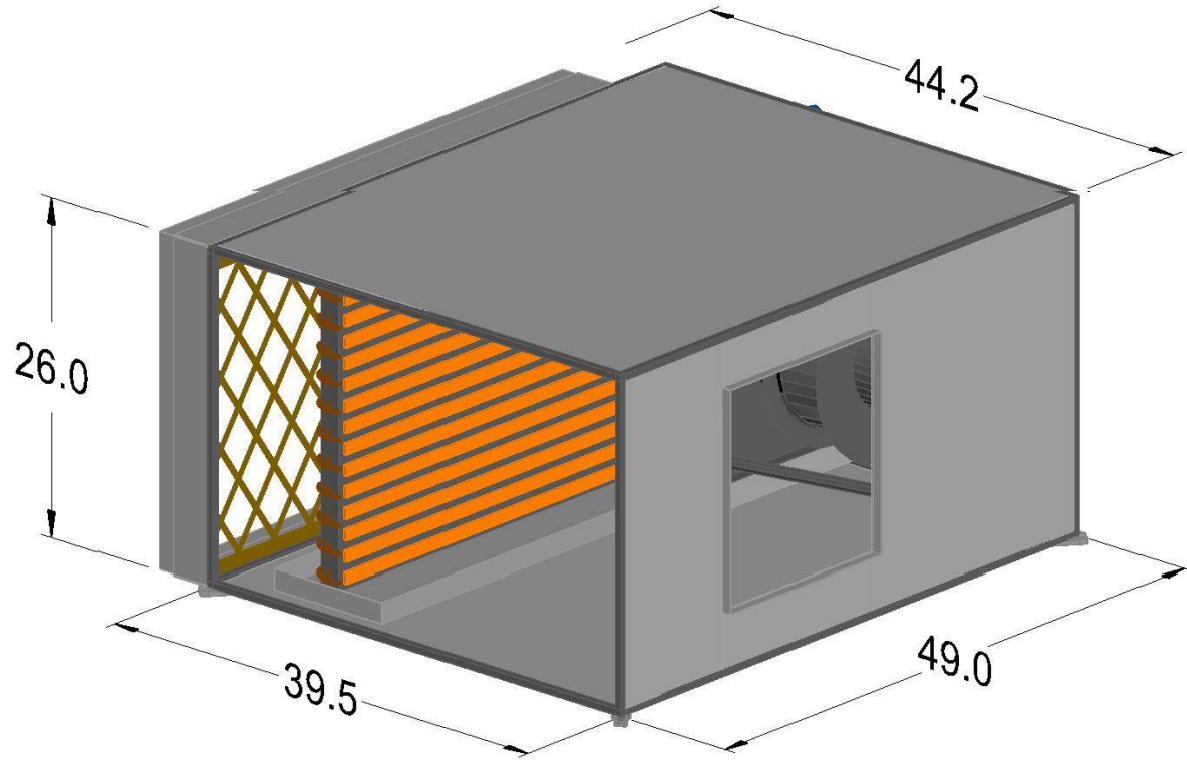
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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FCU-4922C

Drawings(Model View)

<b>Model View</b>	Unit Tag: FCU-4922C			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

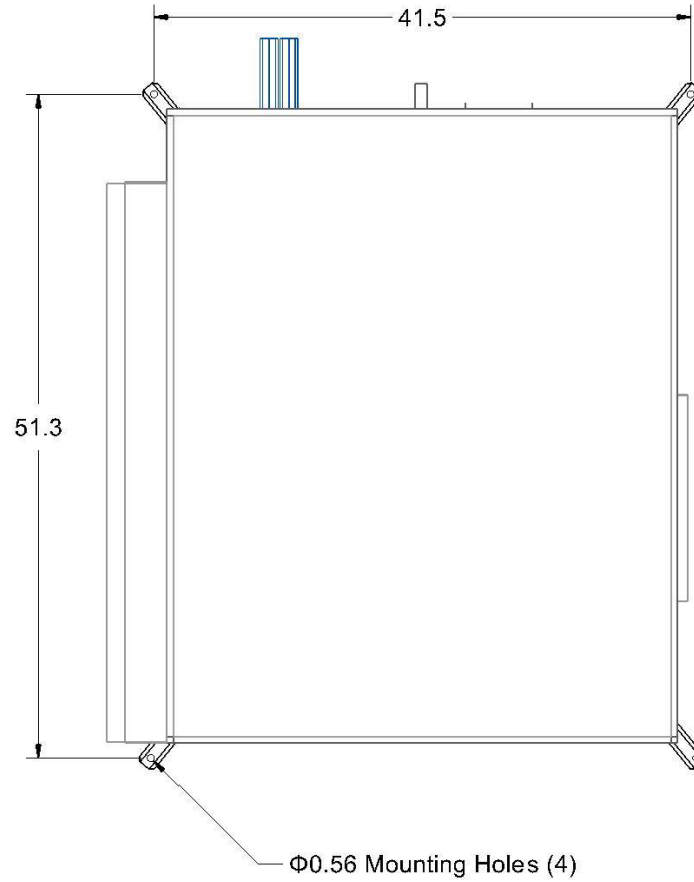
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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PLAN VIEW - MOUNTING

FCU-4922C

Drawings(Mounting View)

<b>Mounting View</b>		Unit Tag: FCU-4922C		Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler		Project Name: ELI LILLY		Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

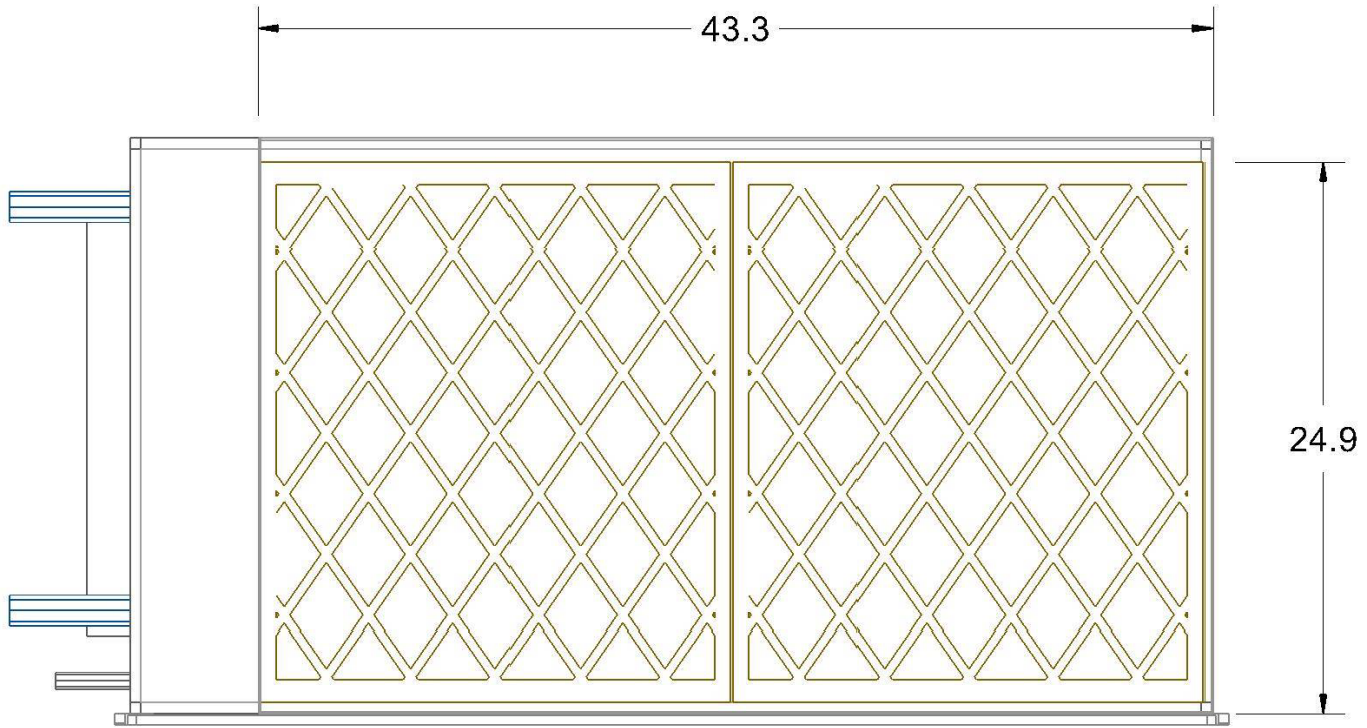
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RIGHT VIEW

FCU-4922C

Drawings(Right View)

<b>Right View</b>	Unit Tag: FCU-4922C			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

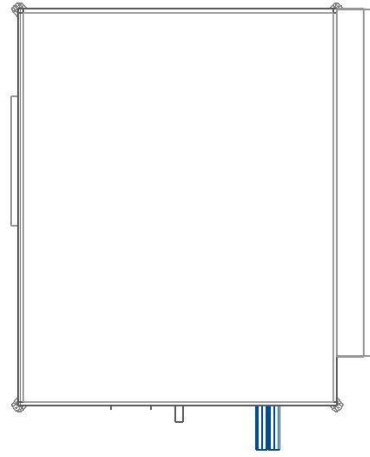
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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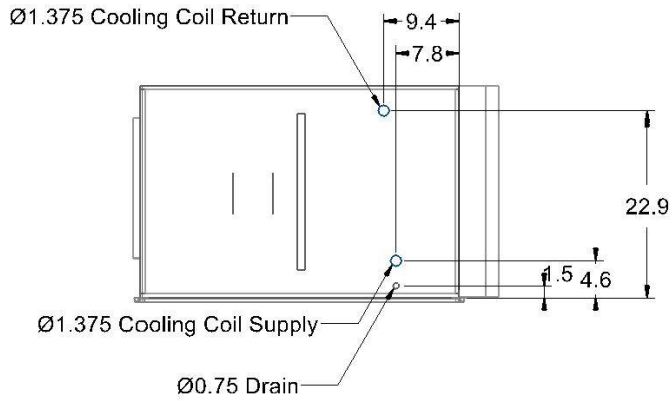
ELI LILLY

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TOP VIEW



FRONT VIEW

FCU-4922C

Drawings(Top Back)

<b>Top Back</b>		Unit Tag: FCU-4922C		Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler		Project Name: ELI LILLY		Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

Job Information		Technical Data Sheet
Job Name	ELI LILLY	
Date	3/2/2023	
Submitted By	Vijay Periannan	
Software Version	05.60	



Unit Tag	FCU-4922D
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Unit Overview				
Model Number	Voltage V/Hz/Phase	Airflow CFM	External Static Pressure inH <sub>2</sub> O	Design Cooling Capacity Btu/hr
BCHE0301	460/60/3	1200	1.00	27178

Unit	
Model Number:	BCHE0301
Unit Arrangement:	Horizontal
Altitude:	705 ft

Physical			
Dimensions and Weight (wet)			
Length	Height	Width	Weight
40 in	26.0 in	49.0 in	588 lb
Construction			
Insulation and Liners:	1" Injected Foam, R-6, Galvanized Steel Liner		

Electrical			
Field Connection	M CA	M ROPD	SCCR
Toggle Disconnect Switch	7.0	15	5 kA

Filter					
Filter Access	Filter Depth		MERV Rating		(Quantity) Height x Width x Depth
	1 <sup>st</sup> Filter	2 <sup>nd</sup> Filter	1 <sup>st</sup> Filter	2 <sup>nd</sup> Filter	(each bank)
Bottom	2 in	2 in	MERV 8	MERV 13	(2) 25.38 x 21.88

Primary Hydronic Coil					
Physical					
Fins per Inch	Rows	Casing Material	Face Area ft <sup>2</sup>	Face Velocity ft/min	
12	6	Stainless Steel	6.0	198.8	
Connection					
Size	Type		Location		
1.38	F-SWT		Right Hand		
Drain Pan					
Material		Connection			
Stainless Steel		0.75 in			
Performance					
Capacity		Air Temperature			
Total Btu/hr	Sensible Btu/hr	Entering		Leaving	
		Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F
27178	25598	72.0	60.0	52.0	51.8

Fluid				
Type	Entering Temperature °F	Leaving Temperature °F	Flow Rate gpm	Pressure Drop ft H <sub>2</sub> O
Water	42.0	58.5	3.3	0.42

**Secondary Hydronic Coil**

Physical				
Fins per Inch	Rows	Casing Material	Face Area ft <sup>2</sup>	Face Velocity ft/min
12	1	Stainless Steel	6.0	198.8
Connection				
Size	Type	Location		
0.62	F-SWT	Right Hand		
Performance				
Total Btu/hr	Air Temperature			
	Dry Bulb °F			Dry Bulb °F
32683	60.0			85.6
Fluid				
Type	Entering Temperature °F	Leaving Temperature °F	Flow Rate gpm	Pressure Drop ft H <sub>2</sub> O
Water	130.0	96.9	2.0	0.55

**Supply Fan**

Performance							
Airflow	Total Static Pressure	Fan Speed	Controller Input Signal	Brake Horsepower	Total Input Power	Fan Energy Index	Altitude
1200.00 CFM	2.86 inH <sub>2</sub> O	2159 rpm	6.7 VDC	0.91 HP	1.06 HP	1.548	705 ft
Motor							
Type	Horsepower	Motor Control				FLA	
Premium Efficiency	4.42 Hp	0-10V Modulating				5.6 A	

**Unit Discharge Conditions**

Air Temperature			
Motor Heat Btu/hr	Unit Leaving Dry Bulb °F	Unit Leaving Wet Bulb °F	Unit Leaving Dewpoint °F
3073	54.3	52.6	51.2

**Internal Pressure Drop Calculation**

External Static Pressure:	1.00 inH <sub>2</sub> O
Filter:	0.05 inH <sub>2</sub> O
Second Filter:	0.13 inH <sub>2</sub> O
Dirty Filter:	1.50 inH <sub>2</sub> O
Chilled Water Coil:	0.16 inH <sub>2</sub> O
Hot Water Heat:	0.03 inH <sub>2</sub> O
<b>Total Static Pressure:</b>	<b>2.86 inH<sub>2</sub>O</b>

**Options**

Controls	
Overflow Switch:	Factory mounted Overflow Switch

**Warranty**

Parts: Standard warranty

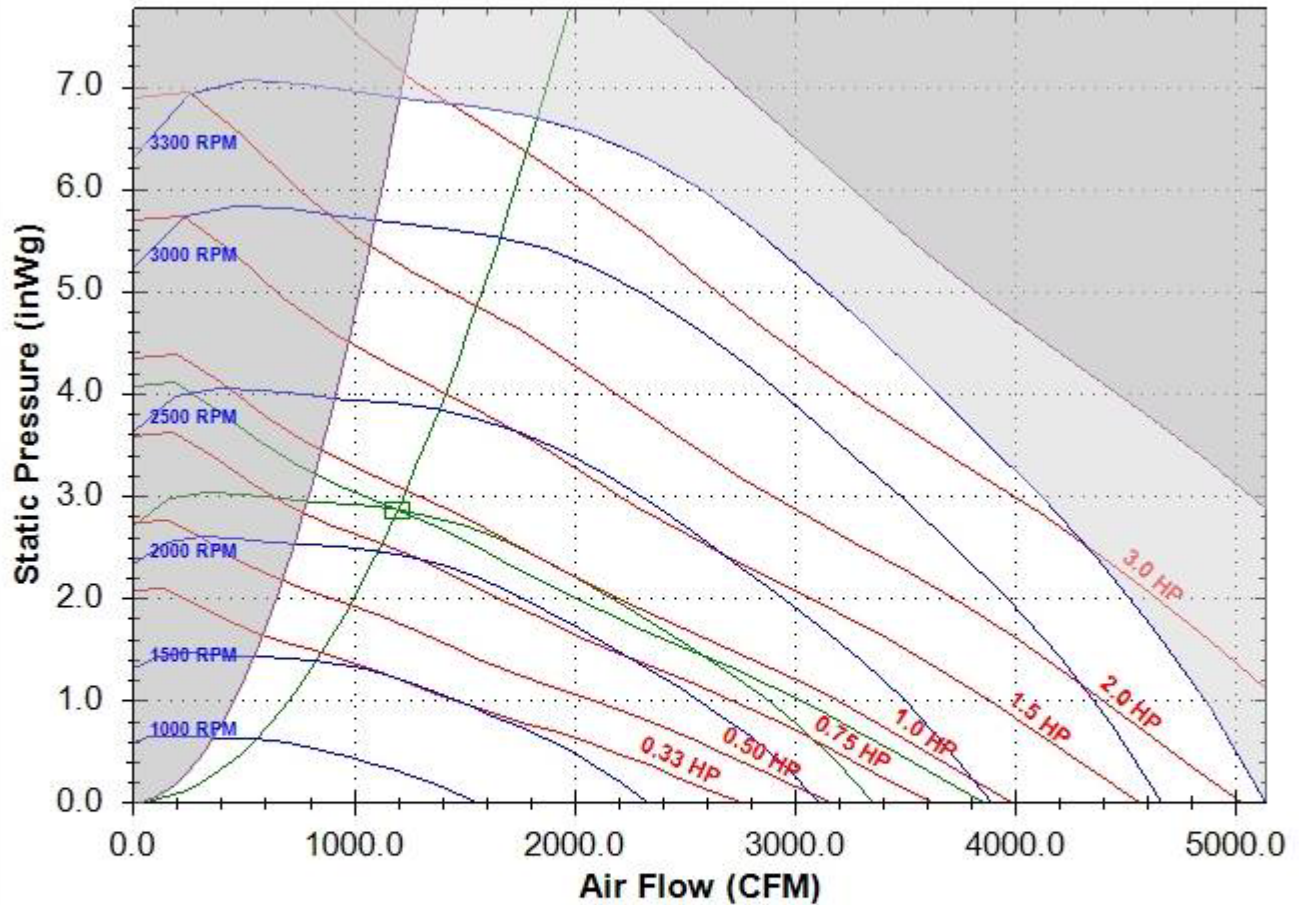
**AHRI Certification**



All equipment is rated and certified in accordance with AHRI 430.

**Notes**

### Daikin Air Handler Packaged Fan Selection



355.0 SWSI\_AF Supply Fan at 705 ft Altitude

Base Tag	FCU-4922D	Date	Mar-02-2023
Job Name	ELI LILLY	Time	8:02 AM
Air Volume	1200 CFM	Fan Speed	2159 RPM
Total Static	2.86 inWg	Max Speed	3300 RPM
Brake Horsepower	0.91 HP	Efficiency	59.6 %



SFONUE

ELI LILLY

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3/2/2023

FCU-4922D

Drawings(Clearance View)



PLAN VIEW - SERVICE CLEARANCE

<b>Clearance View</b>		Unit Tag: FCU-4922D		Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler		Project Name: ELI LILLY		Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

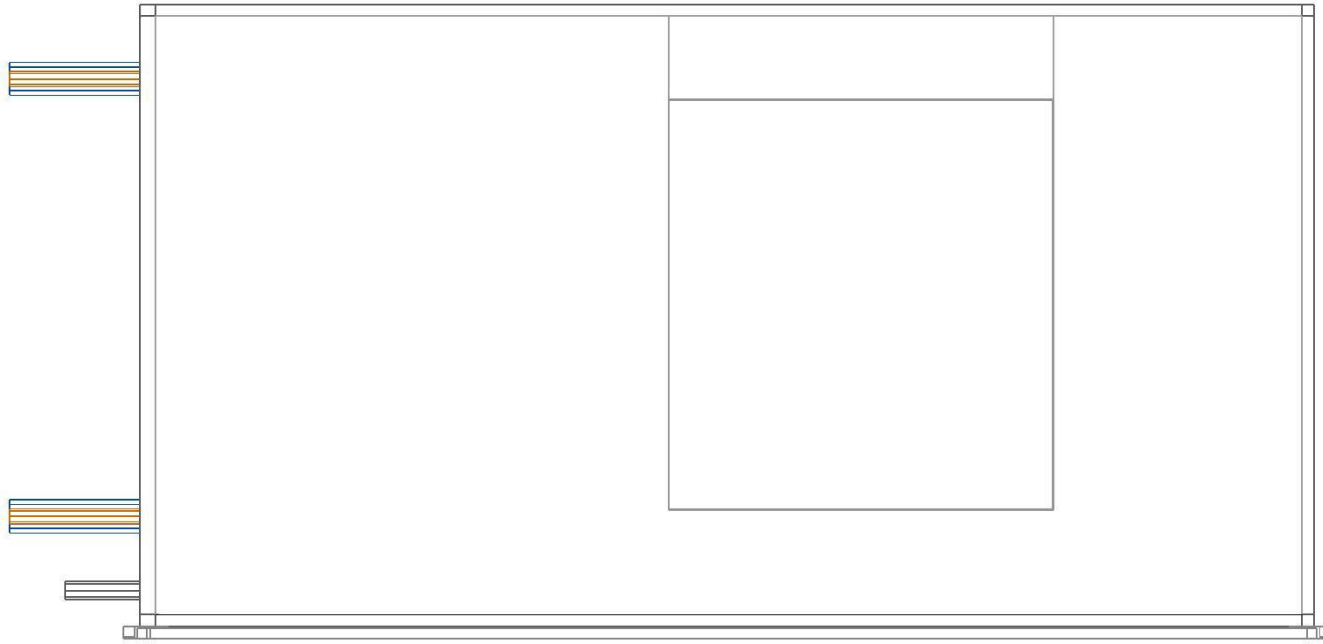
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

SFONUE

ELI LILLY

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FCU-4922D

Drawings(Discharge View)

## DISCHARGE VIEW

<b>Discharge View</b>		Unit Tag: FCU-4922D		Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler		Project Name: ELI LILLY		Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

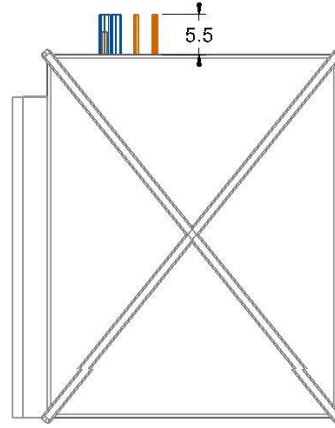
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

SFONUUE

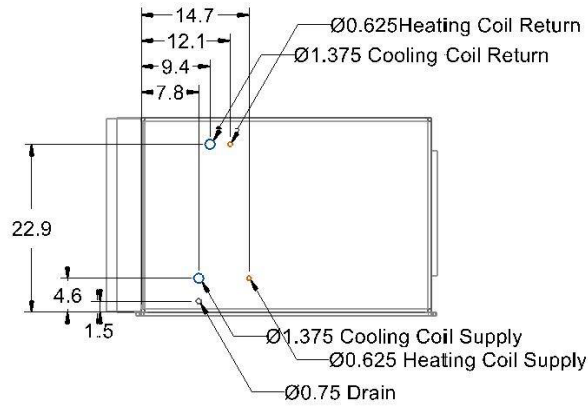
ELI LILLY

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**BOTTOM VIEW**



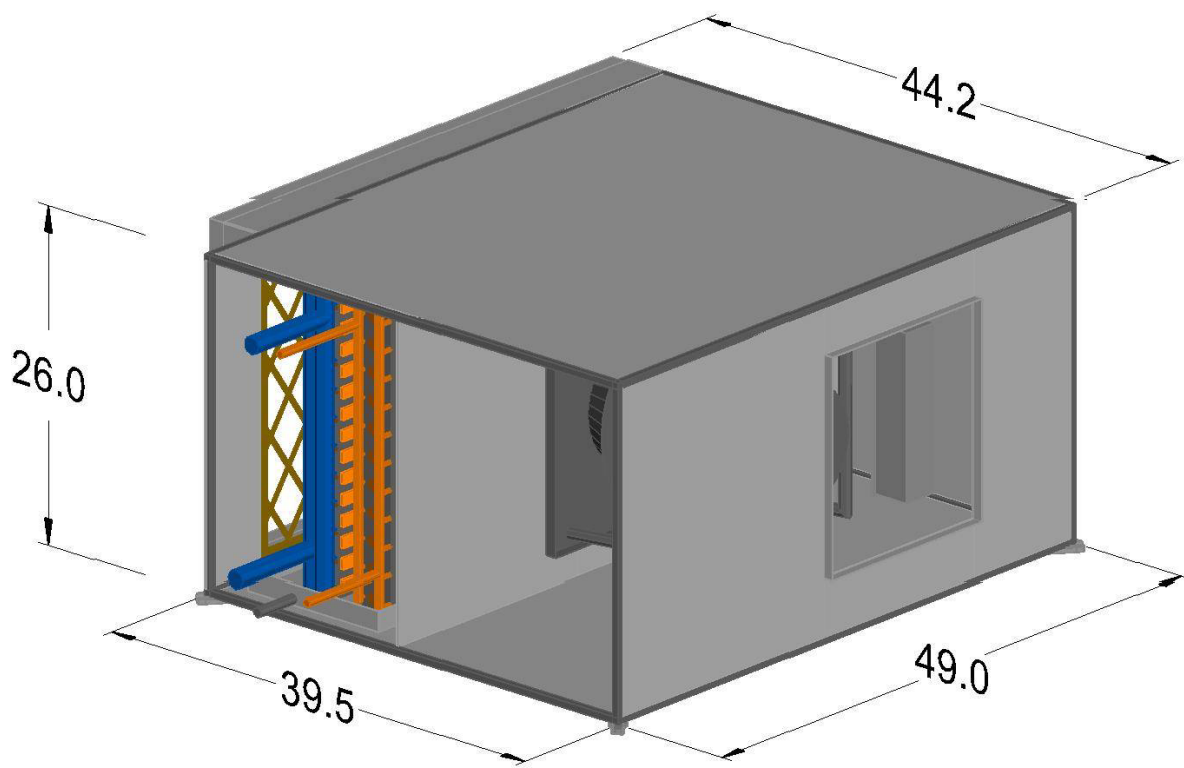
**BACK VIEW**

FCU-4922D

Drawings(Front Bottom)

<b>Front Bottom</b>	Unit Tag: FCU-4922D	Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 05.60		
Product: PreciseLine® Air Handler	Project Name: ELI LILLY	Sales Engineer:					
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS			

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FCU-4922D

Drawings(Model View)

<b>Model View</b>	Unit Tag: FCU-4922D	Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 05.60		
Product: PreciseLine® Air Handler	Project Name: ELI LILLY	Sales Engineer:					
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS			

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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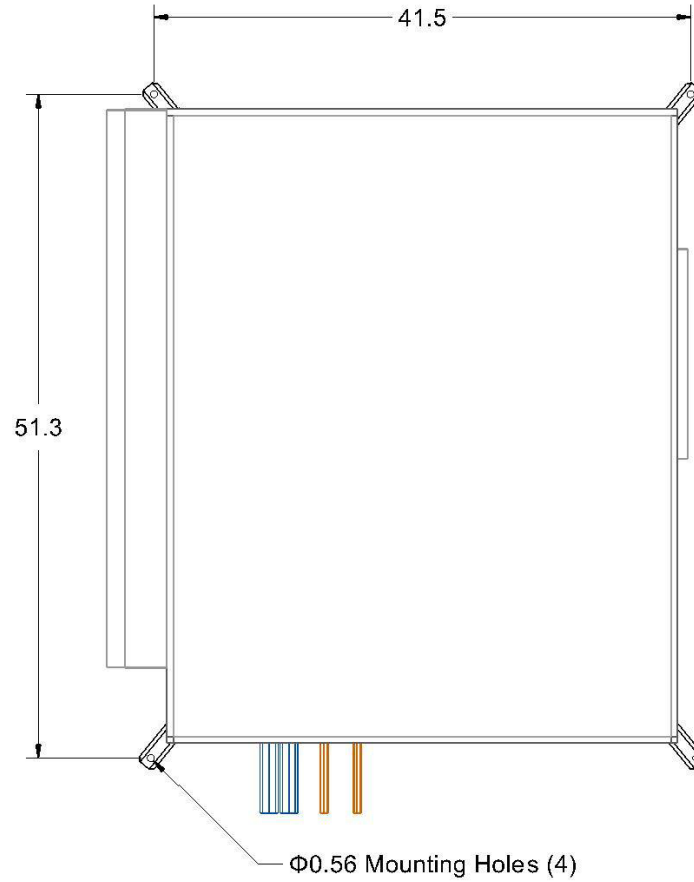
ELI LILLY

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FCU-4922D

Drawings(Mounting View)



PLAN VIEW - MOUNTING

<b>Mounting View</b>	Unit Tag: FCU-4922D			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

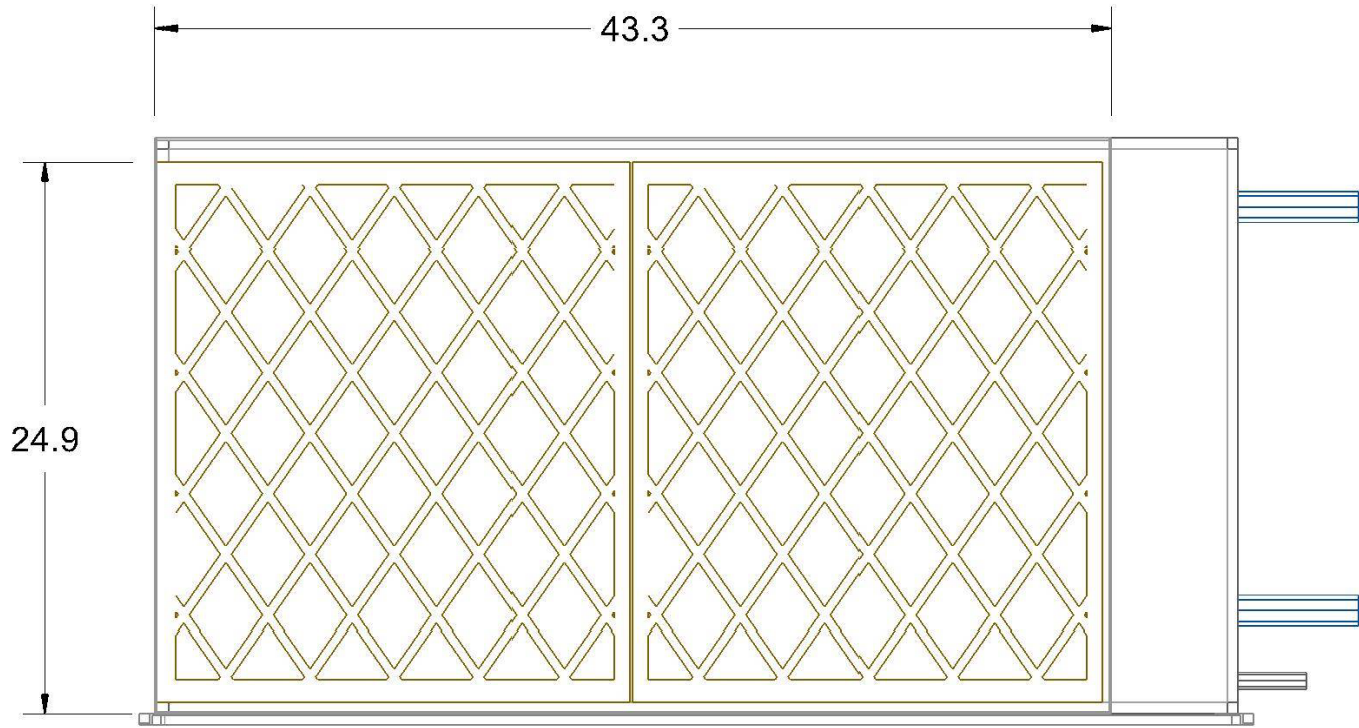
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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RIGHT VIEW

FCU-4922D

Drawings(Right View)

<b>Right View</b>	Unit Tag: FCU-4922D			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

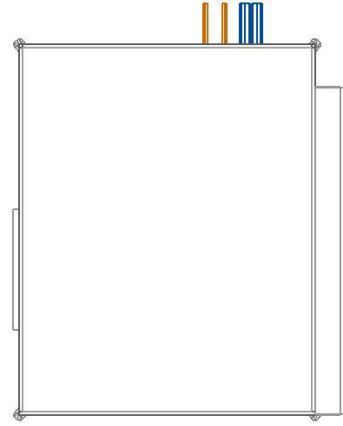
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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TOP VIEW



FRONT VIEW

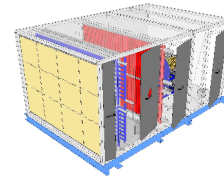
FCU-4922D

Drawings(Top Back)

<b>Top Back</b>		Unit Tag: FCU-4922D		Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler		Project Name: ELI LILLY		Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

Job Information		Technical Data Sheet
Job Name	ELI LILLY	
Date	March 02 2023	
Submitted By	VP	
Software Version	13.04	
Unit Tag	FCU-4940A, FCU-4940B	



**Unit Overview**

Model Number	Supply					
	Air Volume cfm	Static Pressure		External Dimensions		
		External inWc	Total inWc	Height in	Width in	Length in
CAH037GDGM	17000	1.00	2.01	72*	96*	148

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


**Unit**


<b>Model Number:</b>	CAH037GDGM		
<b>Approval:</b>	ETL Listed / ETL Listed to Canadian Safety Standards (ETL Label / ETLc Label)		
<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>	Right
<b>Base:</b>	6" formed channel	<b>Wall Thickness:</b>	2 in
<b>Shipping Stretch Wrap:</b>	Yes	<b>Tread Plate Floor Liner:</b>	Tread plate installed (unless noted per section)
<b>Altitude:</b>	705 ft	<b>Parts Warranty:</b>	Standard One Year

Panel Filter		Component: 1		Length: 12 in		Shipping Section: 1	
Type	Efficiency	Face Velocity		Face Area	Air Volume	Filter Loading	
Pleated	MERV 8	438 ft/min		38.8 ft <sup>2</sup>	17000 cfm	Side	
Air Pressure Drop				Number of Filters	Height	Width	Depth
Clean Air	Mean Air	Dirty Air	User Spec				
0.19 inWc	0.60 inWc	1.00 inWc	N/A	3	24 in	24 in	2 in
				1	24 in	20 in	2 in
				6	20 in	24 in	2 in
				2	20 in	20 in	2 in

Door		
Location	Width	Opening
Drive side	8 in	Outward

Special Options		
Tread Plate Floor Liner	Sound Baffle	Filter Gauge
(As casing details)	(As casing details)	Minihelic II 0-2"

Chilled Water Coil		Component: 2			Length: 44 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)		
5WH0806B	432083 Btu/hr	363644 Btu/hr	2	6	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		Leaving						
17000 cfm	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb	0.54 inWc	30 in	83 in	34.58 ft <sup>2</sup>	492 ft/min
	72.0 °F	60.0 °F	51.9 °F	50.7 °F					
Water		Flow Rate		Pressure Drop	Velocity	Volume	Weight		
Entering	Leaving	69.90 gpm		16.30 ftHd	3.70 ft/s	27.0 gal	232.00 lb		
42.0 °F	54.4 °F								
Connection [Data Per Coil]					M in. Fin Surface Temp.	M in. Tube Wall Surface Temp.	Fouling Factor		
Type	Size	Location	Material				42.0 °F	42.0 °F	0.000
Threaded	1.50 in	Drive side	Carbon steel						
Material					Drain Pan		Drain Side		
Fin	Tube	Header	Case						
Aluminum .0075 in	Copper .020 in	Copper	Stainless 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			
Drive side		24 in		Outward		Round			
Special Options									
Sound Baffle									
(As casing details)									

Hot Water Coil		Component: 3			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)					
5WH0802C	480206 Btu/hr	2	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	Leaving									
17000 cfm	Dry Bulb	Dry Bulb		0.28 inWc	30 in	80 in	33.33 ft <sup>2</sup>	510 ft/min			
	60.0 °F	86.5 °F									
Water		Flow Rate		Pressure Drop	Velocity	Volume	Weight				
Entering	Leaving	40.00 gpm		2.90 ftHd	2.10 ft/s	11.0 gal	93.00 lb				
130.0 °F	106.0 °F										
Connection [Data Per Coil]					M in. Fin Surface Temp.	M in. Tube Wall Surface Temp.	Fouling Factor				
Type	Size	Location	Material				106.0 °F	106.0 °F	0.000		
Threaded	2.50 in	Drive side	Carbon steel								
Material					Header		Case				
Fin	Tube	Header		Case							
Aluminum .0075 in	Copper .020 in	Copper		Stainless steel							
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		Light					
Drive side		24 in		Outward		LED marine light kit and switch only					

<b>Supply Fan</b>	Component: 4	Length: 56 in	Shipping Section: 2
-------------------	--------------	---------------	---------------------

## Fan Performance

Air Volume	Static Pressure		Cabinet	Fan Energy Index(FEI)	Total Input Power	Fan Shaft Power	Speed		Outlet Velocity
	External	Total					Operating	Maximum	
17000 cfm	1.00 inWc	2.01 inWc	0.00 inWc	0.90	10.3 kW	11.83 BHP	1711 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	9	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	1750 rpm	Premium	ODP	256 T frame	Generic	4	148.01 A	24.00 A

## Fan Options

Wheel Guard:	Provided	Seismic Restraint:	With snubbers
Inlet Screen:	Provided	Piezometer Ring:	Provided on Drive Side Fan
Piezometer Delta P:	19.52	Shaft Grounding Kit:	Provided
Isolator Type:	Spring		

## VFD/ Starter/ Disconnect Data

Selection Type:	External J-Box	Vendor:	Factory Standard
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

## Door

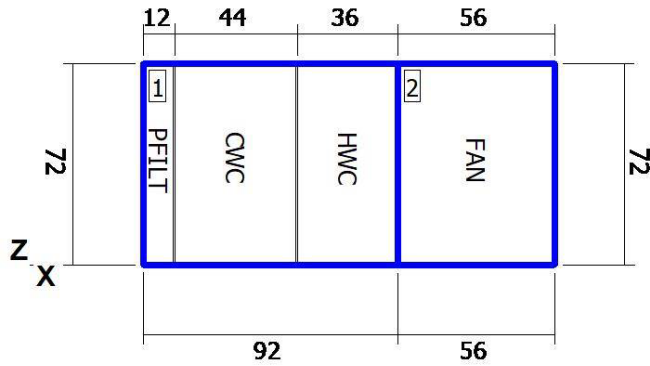
Location	Width	Opening	Window Type	Light
Drive side	26 in	Outward	Round	LED marine light kit and switch only

## Unit Sound Power (dB)

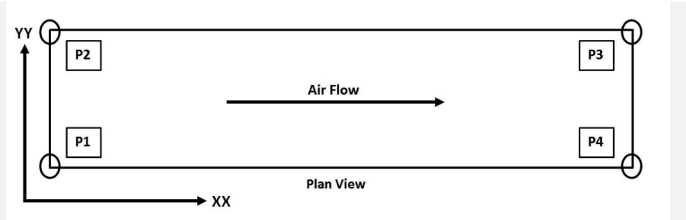
Type	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Radiated:	78	73	78	69	66	62	50	51
Unit Discharge:	88	83	93	90	88	90	88	77
Unit Return:	79	77	91	82	76	80	74	62

**Shipping Section Details**

Section	Length in	Weight lb	Corner Weights (lb)				Center of Gravity (in)		
			P1	P2	P3	P4	XX	YY	ZZ
1	92	2703	798	762	556	592	39	47	36
2	56	1593	451	446	345	350	24	48	30
<b>Entire Unit</b>	<b>148</b>	<b>4296</b>	<b>1187</b>	<b>1147</b>	<b>963</b>	<b>1004</b>	<b>68</b>	<b>47</b>	<b>34</b>



**Elevation View**



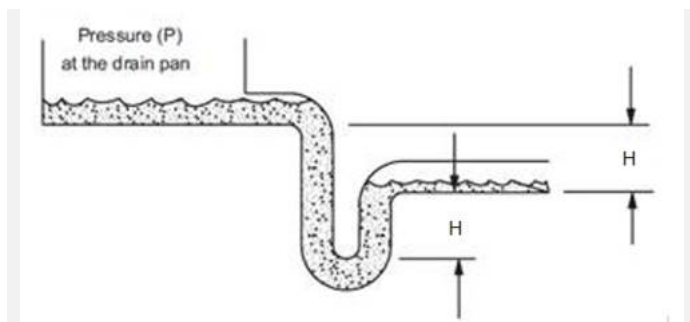
NOTE: Special components aren't included in the corner weights and center of gravity data.

**Supply Static Pressure Drop**

Component	Option	Static Pressure Drop
Panel Filter	Panel Filter	0.19 insWg
Chilled Water coil	Chilled Water coil	0.54 insWg
Hot Water Coil	Hot Water Coil	0.28 insWg
Supply Fan	Cabinet	
External Static	External Static	1.00 insWg
<b>Total Supply Fan Static</b>		<b>2.01 insWg</b>

**Minimum Recommended Drain Pan Trap Dimensions**

Shipping Section	Component	H
1	Chilled Water coil	1.96



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.

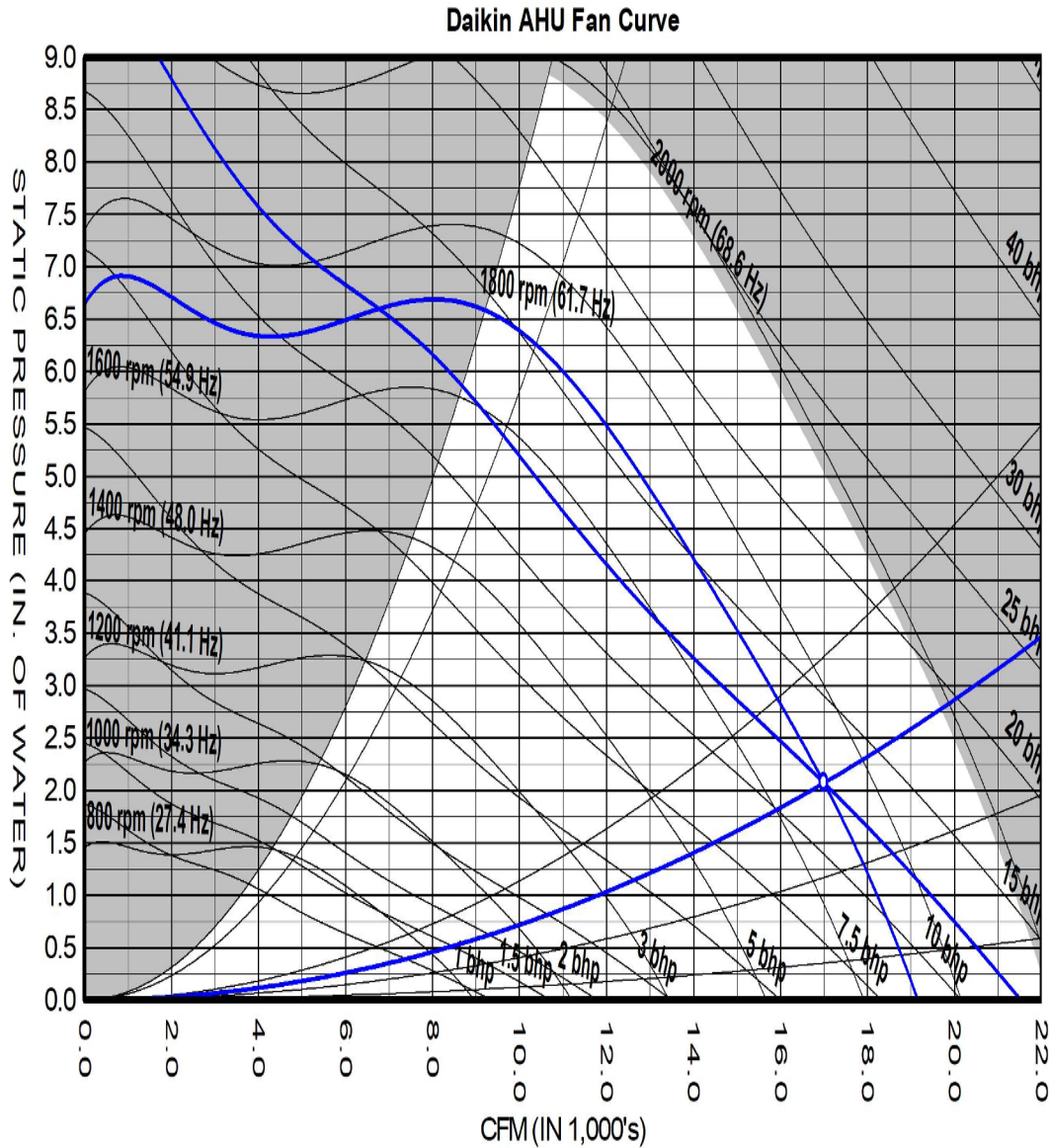
**AHRI Certification**



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****Standard**

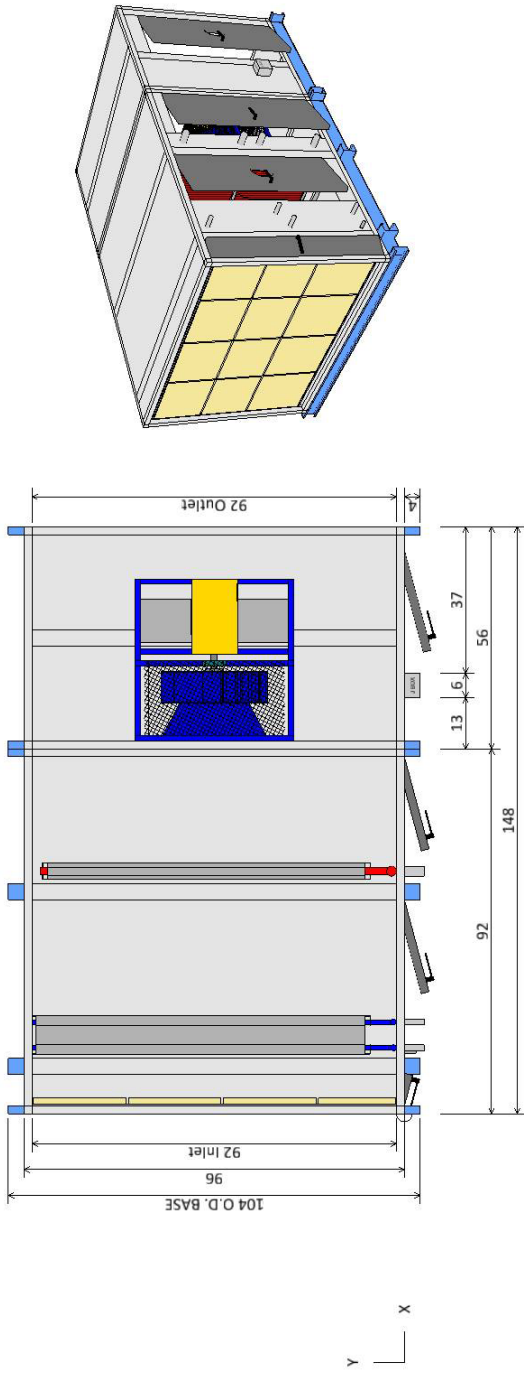
1. As a standalone component, unit meets or exceeds requirements of ASHRAE 90.1 - 2007. The approving authority is responsible for compliance of multi - component building systems.



AF 27 DD PLENUM 9BL (100% Width) 1x1 Supply Fan at Standard Conditions					
Air volume	17000	cfm	Fan speed	1711	rpm
Total static	2.07	insVg	Max speed	1981	rpm
Fan Shaft Power	12.2	bhp	Efficiency	45.5	%
Approx VFD Setting	58.7	Hz	Motor Speed	1750	rpm
Fan Energy Index(FEI)	0.90				
Unit tagging	FCU-4940A, FCU-4940B		Date	March-02-2023	
Job name	ELI LILLY		Time	08:04	

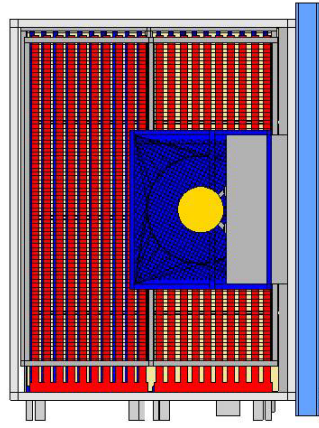


Supply fan performance is certified in accordance with the Central Station Air-Handling Unit Certification Program, which is based on AHRI Standard 430.

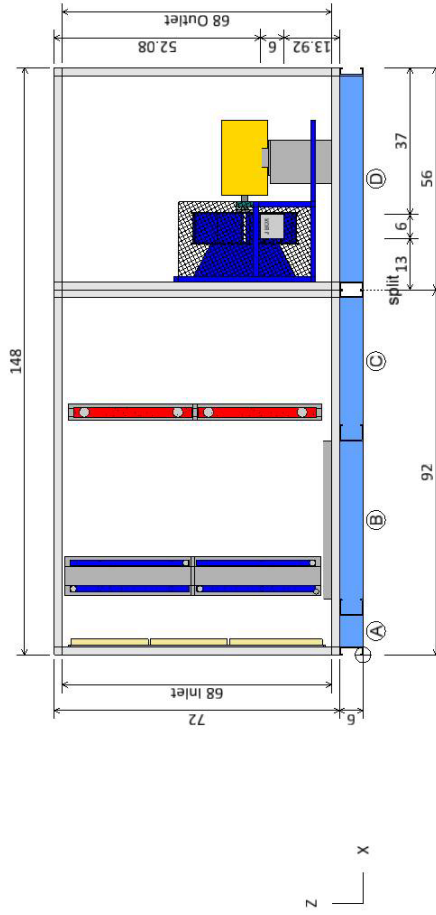


ISOMETRIC VIEW

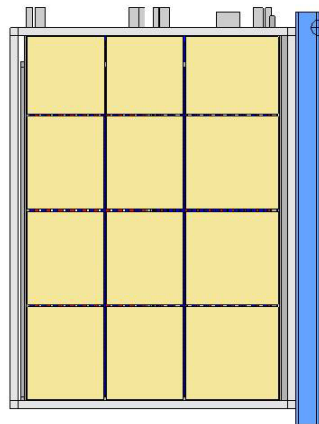
PLAN VIEW



REAR END VIEW



ELEVATION VIEW



FRONT END VIEW

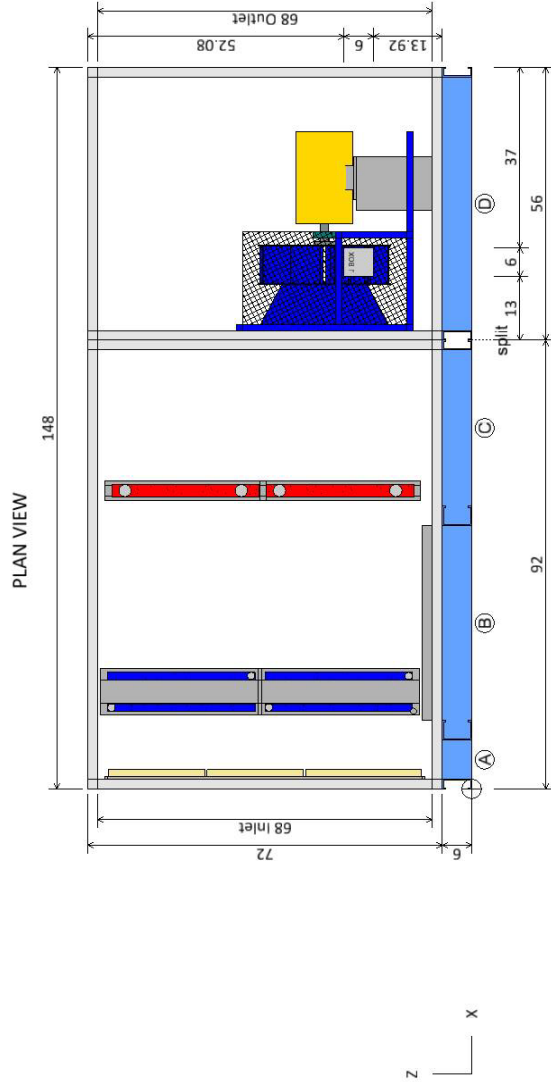
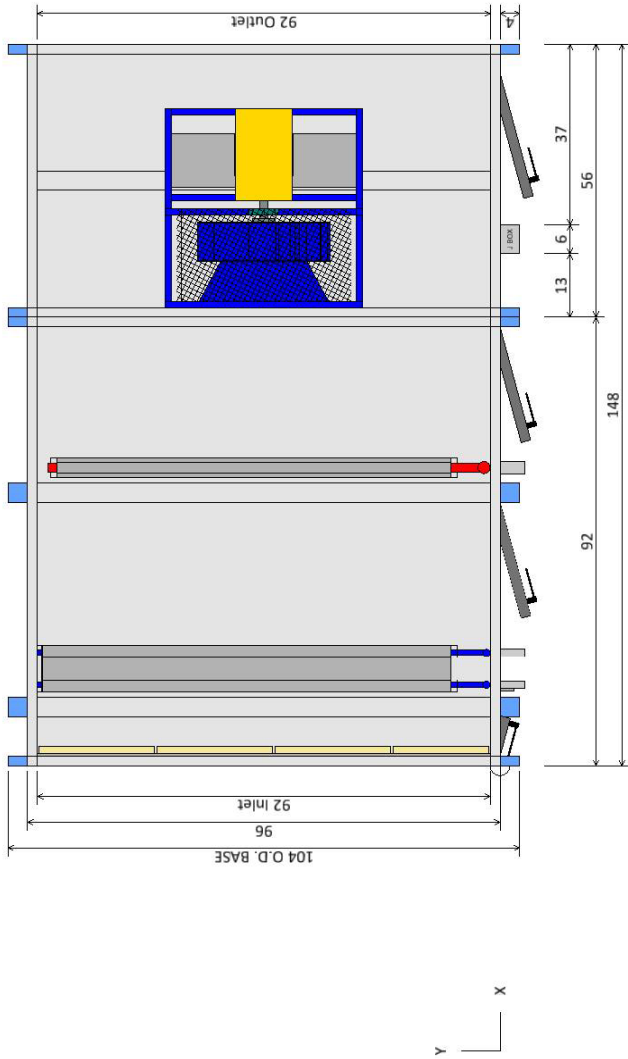
**DAIKIN**  
 13600 Industrial Park Blvd, Minneapolis, MN 55441  
 www.DaikinApplied.com Software Version: 13.04

Unit Tag: FCU-4940A, FCU-4940B  
 Sales Office: Hoffman & Hoffman, Inc.

Project Name: ELI LILLY  
 Sales Engineer:

Mar. 2, 2023 Ver/Rev: Sheet: 1 of 1  
 Scale: NTS Tolerance: +/-0.25"  
 Dwg Units: in

Component Key	
(A)	Panel Filter Filter Type: Pleated (MERV 8) Right Door (WxH): 8 ins x 68 ins
(B)	Chilled Water coil Coil Model: 5WH0806B Total Capacity: 432083.0 Btu/hr Right Door (WxH): 24 ins x 62 ins
(C)	Hot Water Coil Coil Model: 5WH0802C Total Capacity: 480206.0 Btu/hr Right Door (WxH): 24 ins x 64 ins
(D)	Supply Fan Fan Type: Centrifugal - Plenum Fan Size (Class): 27 (2) Air Flowrate: 17000.0 cfm T.S.P.: 2.0 insWg Motor Power: 20.0 HP Right Door (WxH): 26 ins x 62 ins



ELEVATION VIEW

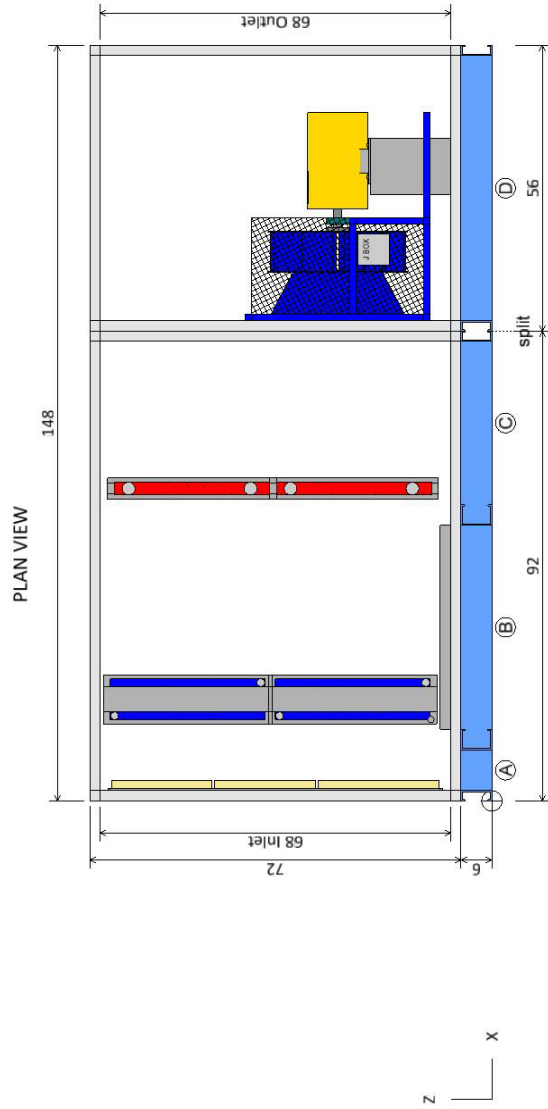
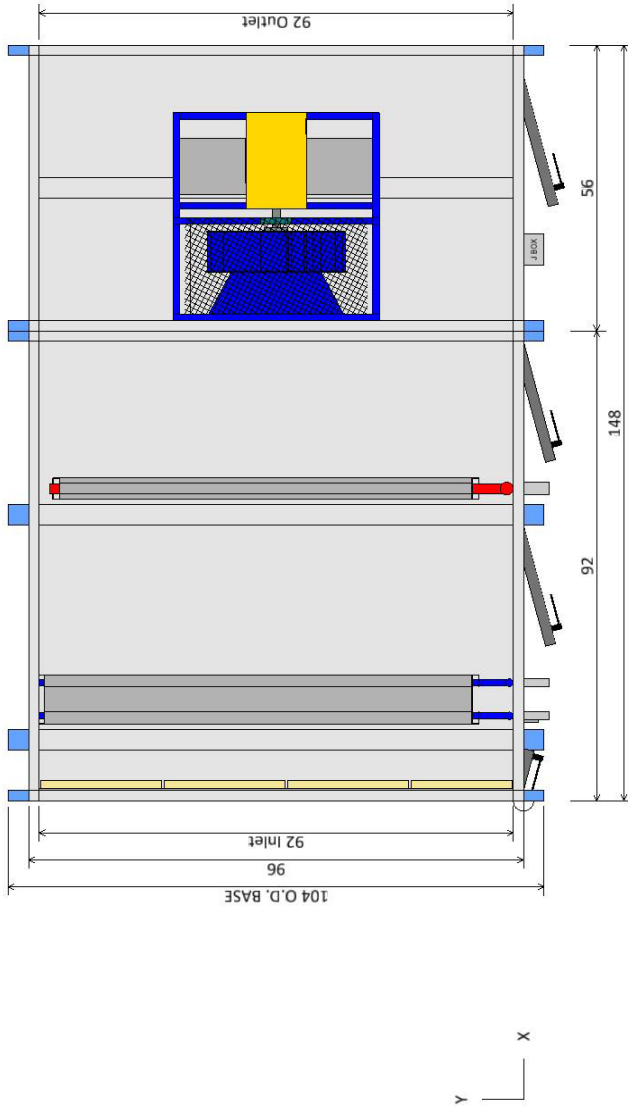
<p><b>Plan/Elevation - No Ends</b> Product: Vision Air Handler Model: CAH037GDGM</p>	<p>Unit Tag: FCU-4940A, FCU-4940B</p>		<p>Sales Office: Hoffman &amp; Hoffman, Inc.</p>	
	<p>Project Name: ELI LILLY</p>		<p>Sales Engineer:</p>	
<p>Mar. 2, 2023</p>	<p>Ver/Rev:</p>	<p>Sheet: 1 of 1</p>	<p>Scale: NTS</p>	<p>Tolerance: +/-0.25"</p>
			<p>Dwg Units: in</p>	<p>Software Version: 13.04</p>



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www.DaikinApplied.com

Component Key					
Type	X	Y	Z	Wid	Hgt
Panel Filter Opening (A)	0.00	2.00	8.00	92.00	68.00
Supply Fan Fan Discharge (D)	148.00	2.00	8.00	92.00	68.00

Note: Dimensions are measured from the origin point.



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 www.DaikinApplied.com Software Version: 13.04

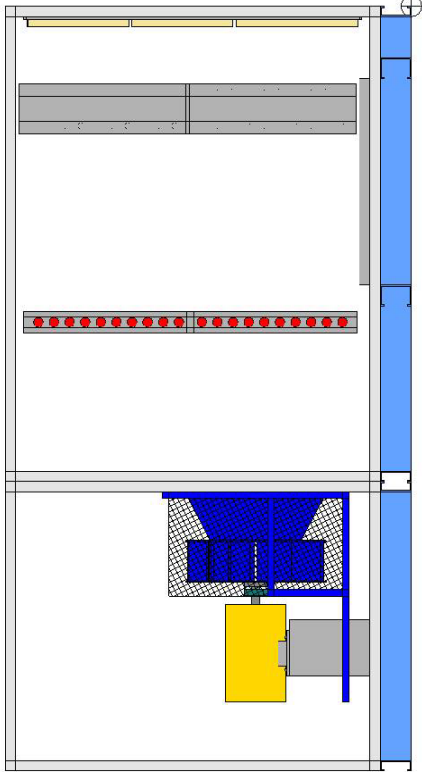
Sales Office: Hoffman & Hoffman, Inc.  
 Sales Engineer:  
 Scale: NTS Tolerance: +/-0.25"  
 Dwg Units: in

Unit Tag: FCU-4940A, FCU-4940B  
 Project Name: ELI LILLY  
 Mar. 2, 2023 Ver/Rev: Sheet: 1 of 1

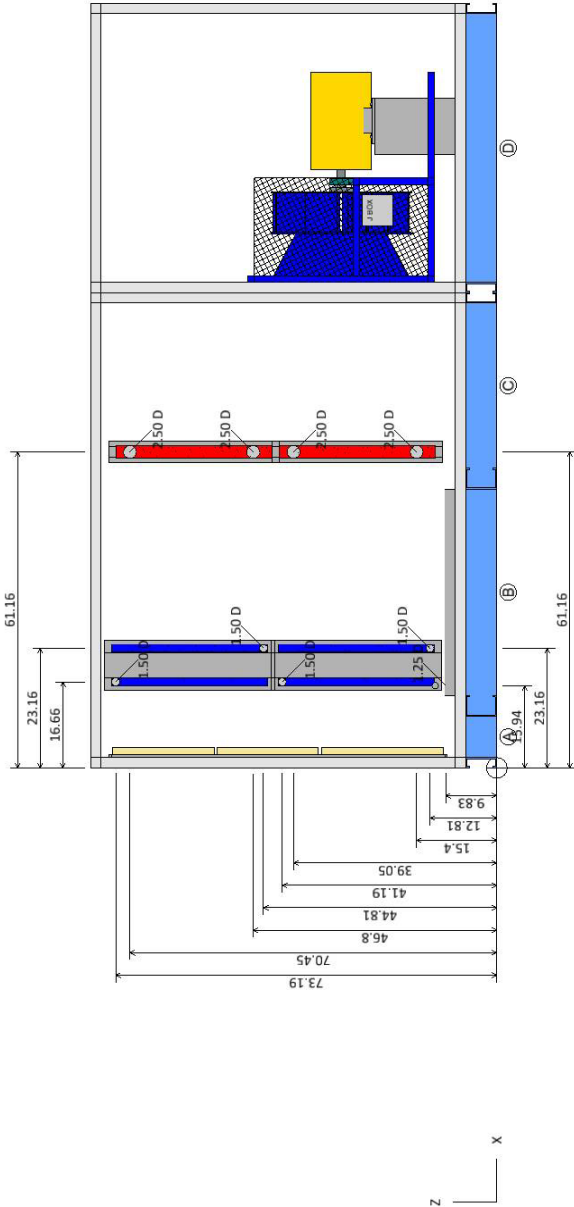
**Opening/Damper Connections**  
 Product: Vision Air Handler  
 Model: CAH037GDGM

Coil and Drain Connections					
Type	X	Y	Z	Diam	
Chilled Water coil	15.94	-4.90	11.83	1.25	
Condensate drain conn:	23.16	-7.00	12.81	1.50	
Cold water inlet:	16.66	-7.00	41.19	1.50	
Cold water outlet:	23.16	-7.00	44.81	1.50	
Cold water outlet:	16.66	-7.00	73.19	1.50	
Hot Water Coil	61.16	-7.00	15.40	2.50	
Hot water inlet:	61.16	-7.00	39.05	2.50	
Hot water outlet:	61.16	-7.00	46.80	2.50	
Hot water outlet:	61.16	-7.00	70.45	2.50	

Note: Dimensions are measured from the origin point.



LEFT ELEVATION VIEW

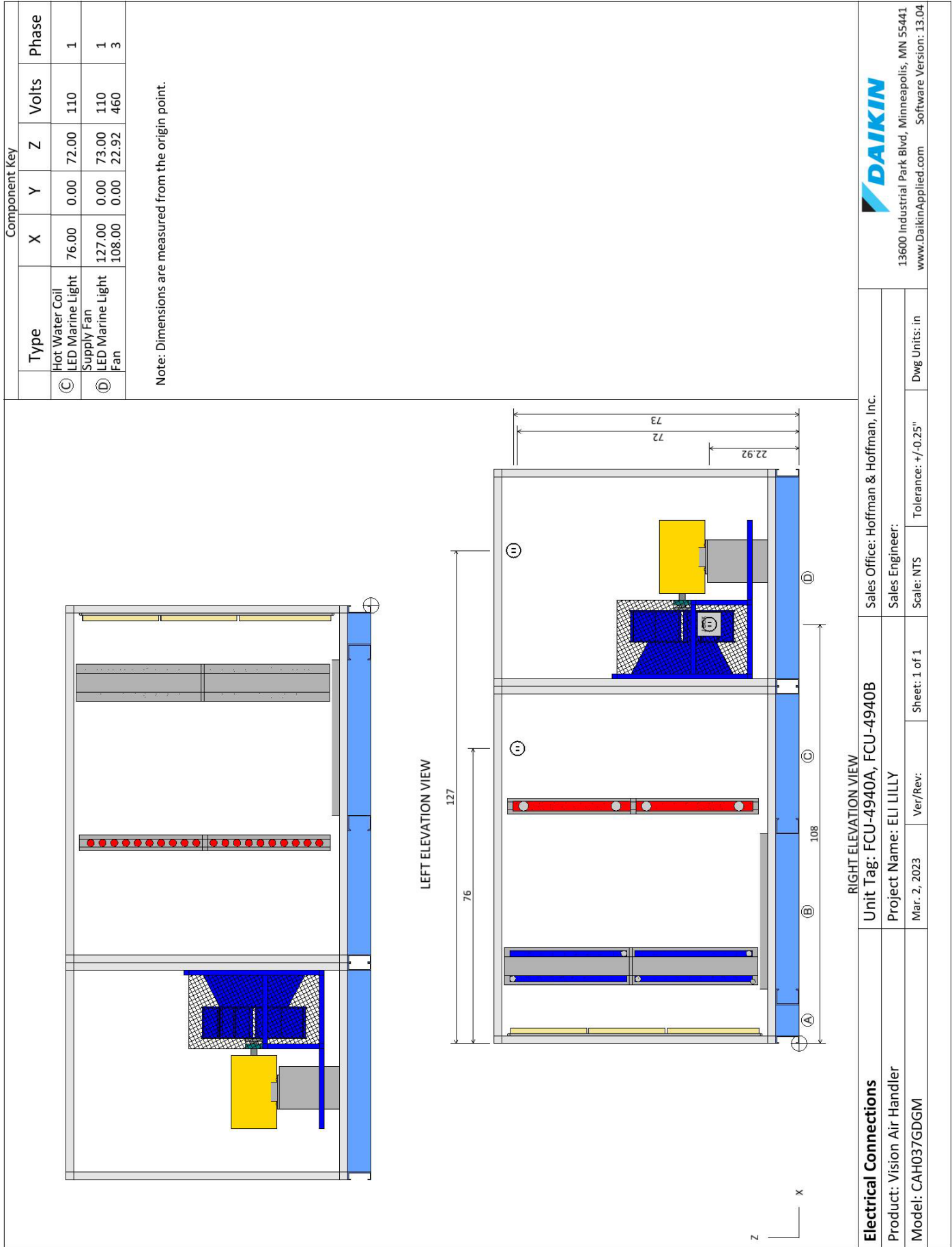


RIGHT ELEVATION VIEW

<b>Coil and Drain Connections</b>		Unit Tag: FCU-4940A, FCU-4940B		Sales Office: Hoffman & Hoffman, Inc.	
Product: Vision Air Handler		Project Name: ELI LILLY		Sales Engineer:	
Model: CAH037GDGM		Mar. 2, 2023 Ver/Rev:		Scale: NTS	
		Sheet: 1 of 1		Tolerance: +/-0.25"	
				Dwg Units: in	



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www.DaikinApplied.com Software Version: 13.04

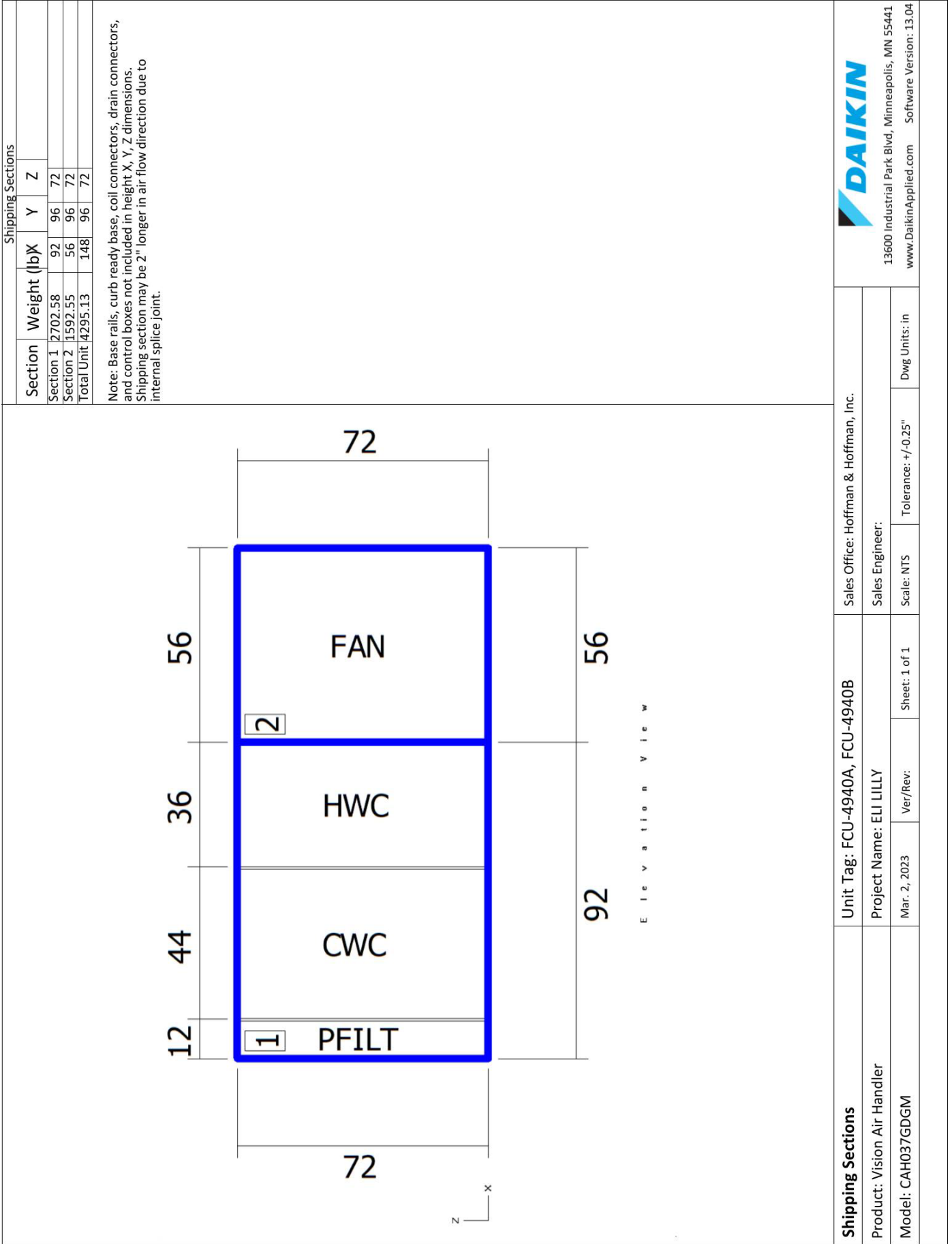


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Sales Office: Hoffman & Hoffman, Inc.  
 Sales Engineer:  
 Scale: NTS Tolerance: +/-0.25"  
 Dwg Units: in

Unit Tag: FCU-4940A, FCU-4940B  
 Project Name: ELI LILLY  
 Mar. 2, 2023 Ver/Rev: Sheet: 1 of 1

**Electrical Connections**  
 Product: Vision Air Handler  
 Model: CAH037GDGM



13600 Industrial Park Blvd, Minneapolis, MN 55441  
www.DaikinApplied.com Software Version: 13.04

Sales Office: Hoffman & Hoffman, Inc.

Sales Engineer:

Dwg Units: in

Unit Tag: FCU-4940A, FCU-4940B

Project Name: ELI LILLY

Sheet: 1 of 1

Shipping Sections

Product: Vision Air Handler

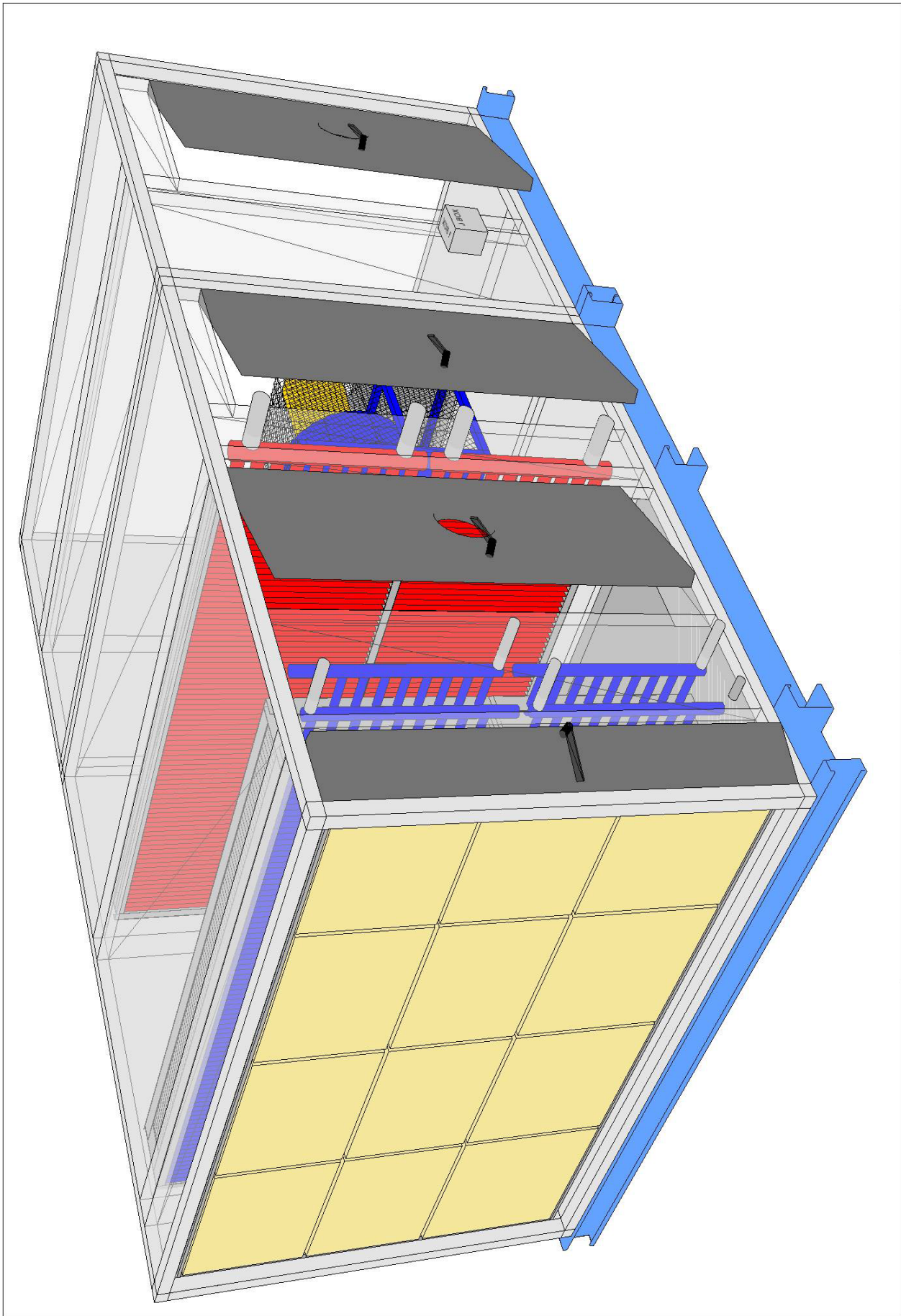
Model: CAH037GDGM


Mar. 2, 2023

Ver/Rev:

Scale: NTS

Tolerance: +/-0.25"



<b>Product Drawing</b> Product: Vision Air Handler Model: CAH037GDGM	Unit Tag: FCU-4940A, FCU-4940B		Sales Office: Hoffman & Hoffman, Inc.	
	Project Name: ELI LILLY Mar. 2, 2023		Sales Engineer: Scale: NTS	
Ver/Rev:		Sheet: 1 of 1	Tolerance: +/-0.25"	Dwg Units: in
 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 13.04				

Job Information		Technical Data Sheet
Job Name	ELI LILLY	
Date	3/2/2023	
Submitted By	Vijay Periannan	
Software Version	05.60	
Unit Tag	FCU-4940C	



Unit Overview				
Model Number	Voltage V/Hz/Phase	Airflow CFM	External Static Pressure inH <sub>2</sub> O	Design Cooling Capacity Btu/hr
BCHE0301	460/60/3	1400	1.00	32884

Unit	
Model Number:	BCHE0301
Unit Arrangement:	Horizontal
Altitude:	705 ft

Physical			
Dimensions and Weight (wet)			
Length	Height	Width	Weight
40 in	26.0 in	49.0 in	567 lb
Construction			
Insulation and Liners:	1" Injected Foam, R-6, Galvanized Steel Liner		

Electrical			
Field Connection	M CA	M ROPD	SCCR
Toggle Disconnect Switch	7.0	15	5 kA

Filter					
Filter Access	Filter Depth		MERV Rating		(Quantity) Height x Width x Depth (each bank)
	1 <sup>st</sup> Filter	2 <sup>nd</sup> Filter	1 <sup>st</sup> Filter	2 <sup>nd</sup> Filter	
Bottom	2 in	2 in	MERV 8	MERV 13	(2) 25.38 x 21.88

Primary Hydronic Coil					
Physical					
Fins per Inch	Rows	Casing Material	Face Area ft <sup>2</sup>	Face Velocity ft/min	
12	4	Stainless Steel	6.0	232.0	
Connection					
Size	Type		Location		
1.38	F-SWT		Left Hand		
Drain Pan					
Material		Connection			
Stainless Steel		0.75 in			
Performance					
Capacity		Air Temperature			
Total Btu/hr	Sensible Btu/hr	Entering		Leaving	
		Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F
32884	29858	72.0	60.0	52.0	51.4

Fluid				
Type	Entering Temperature °F	Leaving Temperature °F	Flow Rate gpm	Pressure Drop ft H <sub>2</sub> O
Water	42.0	55.7	4.8	1.59

**Secondary Hydronic Coil**

Physical				
Fins per Inch	Rows	Casing Material	Face Area ft <sup>2</sup>	Face Velocity ft/min
12	1	Stainless Steel	6.0	232.0
Connection				
Size	Type	Location		
0.62	F-SWT	Left Hand		
Performance				
Total Btu/hr	Air Temperature			
	Dry Bulb °F			Dry Bulb °F
38158	60.0			85.6
Fluid				
Type	Entering Temperature °F	Leaving Temperature °F	Flow Rate gpm	Pressure Drop ft H <sub>2</sub> O
Water	130.0	99.0	2.5	0.82

**Supply Fan**

Performance							
Airflow	Total Static Pressure	Fan Speed	Controller Input Signal	Brake Horsepower	Total Input Power	Fan Energy Index	Altitude
1400.00 CFM	1.88 inH <sub>2</sub> O	1836 rpm	5.8 VDC	0.61 HP	0.73 HP	1.810	705 ft
Motor							
Type	Horsepower	Motor Control			FLA		
Premium Efficiency	4.42 Hp	0-10V Modulating			5.6 A		

**Unit Discharge Conditions**

Air Temperature			
Motor Heat Btu/hr	Unit Leaving Dry Bulb °F	Unit Leaving Wet Bulb °F	Unit Leaving Dewpoint °F
2312	53.5	51.9	50.8

**Internal Pressure Drop Calculation**

External Static Pressure:	1.00 inH <sub>2</sub> O
Filter:	0.06 inH <sub>2</sub> O
Second Filter:	0.15 inH <sub>2</sub> O
Dirty Filter:	0.50 inH <sub>2</sub> O
Chilled Water Coil:	0.14 inH <sub>2</sub> O
Hot Water Heat:	0.03 inH <sub>2</sub> O
<b>Total Static Pressure:</b>	<b>1.88 inH<sub>2</sub>O</b>

**Options**

Controls	
Overflow Switch:	Factory mounted Overflow Switch

**Warranty**

Parts: Standard warranty

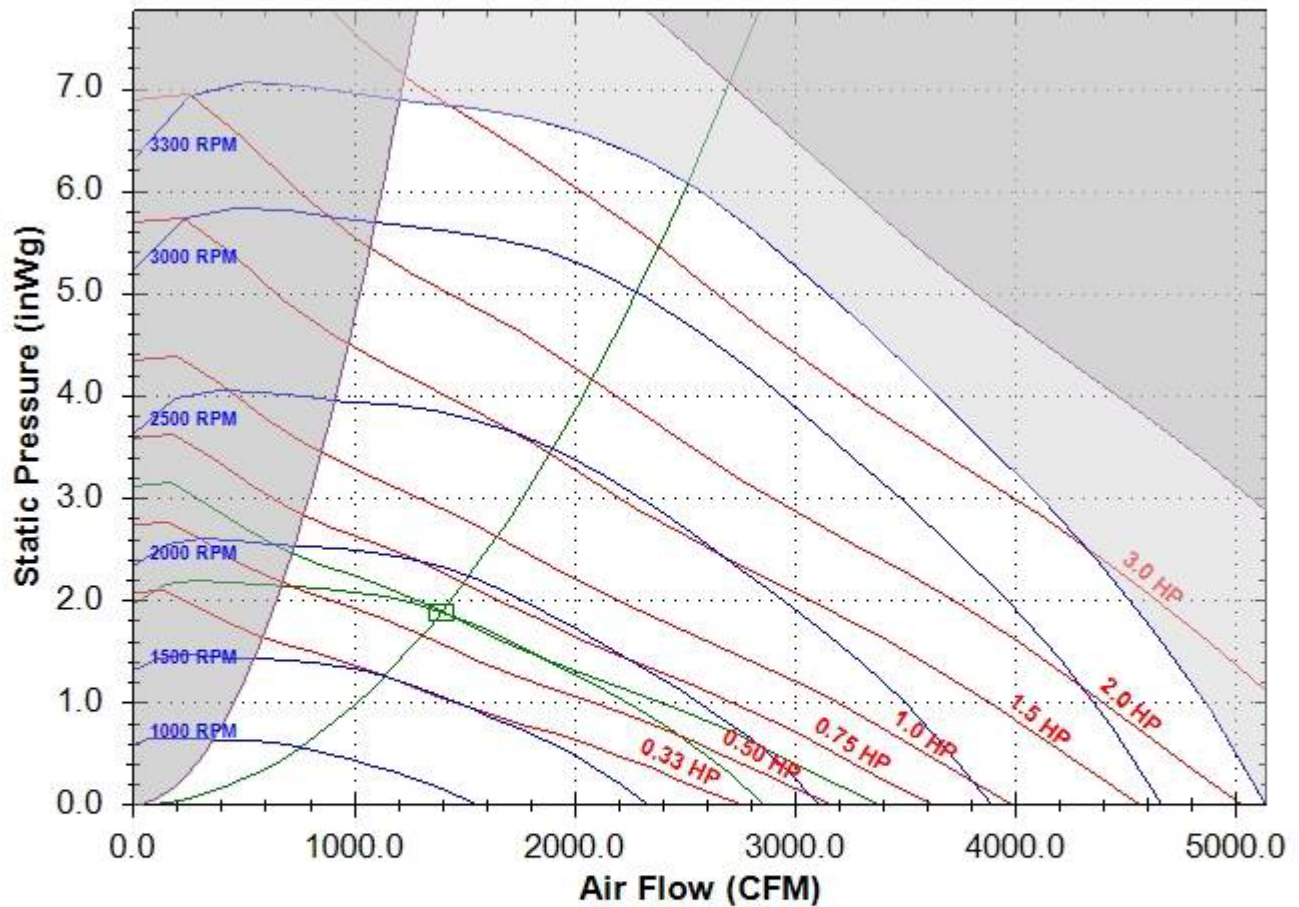
**AHRI Certification**



All equipment is rated and certified in accordance with AHRI 430.

**Notes**

### Daikin Air Handler Packaged Fan Selection



355.0 SWSI\_AF Supply Fan at 705 ft Altitude

Base Tag	FCU-4940C	Date	Mar-02-2023
Job Name	ELI LILLY	Time	8:02 AM
Air Volume	1400 CFM	Fan Speed	1836 RPM
Total Static	1.88 inWg	Max Speed	3300 RPM
Brake Horsepower	0.61 HP	Efficiency	68.1 %

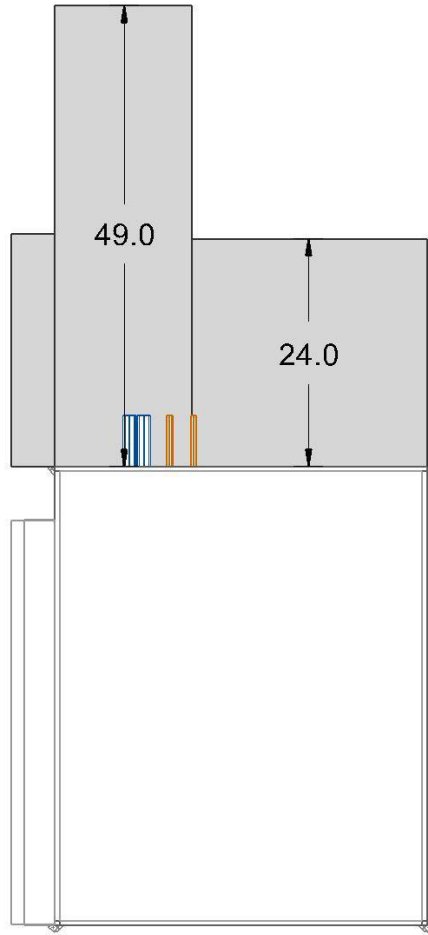


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ELI LILLY

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PLAN VIEW - SERVICE CLEARANCE

FCU-4940C

Drawings(Clearance View)

<b>Clearance View</b>	Unit Tag: FCU-4940C	Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60		
Product: PreciseLine® Air Handler	Project Name: ELI LILLY	Sales Engineer:					
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

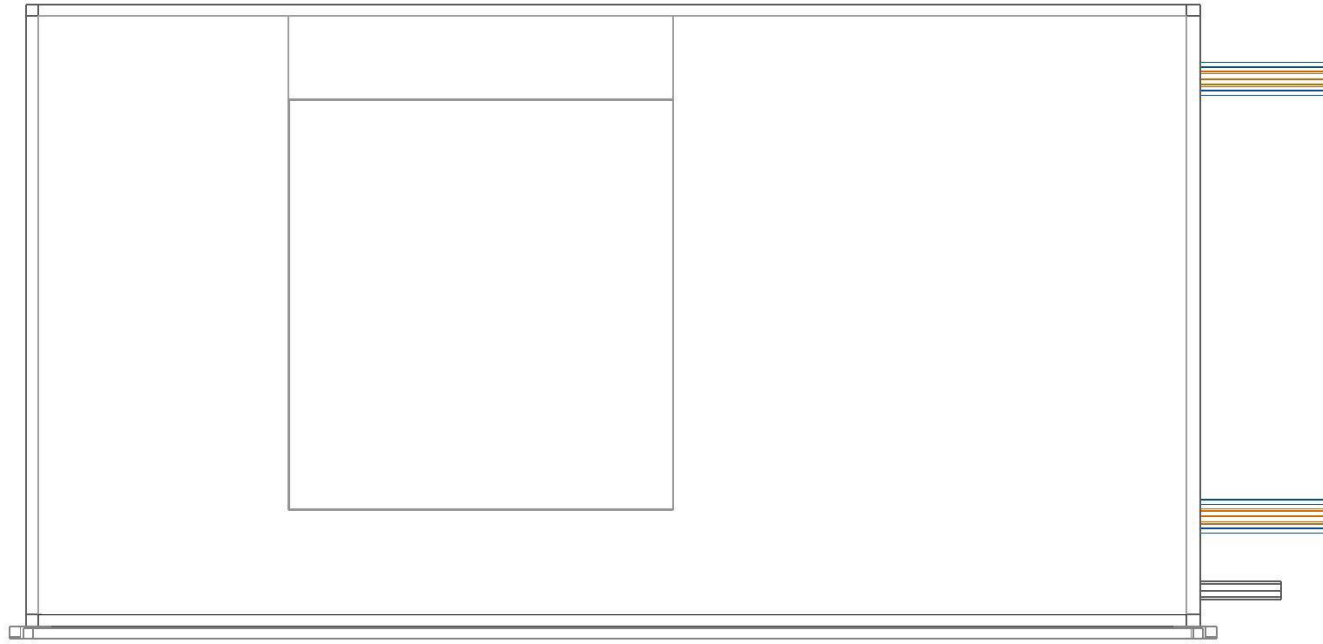
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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ELI LILLY

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FCU-4940C

Drawings(Discharge View)

### DISCHARGE VIEW

<b>Discharge View</b>		Unit Tag: FCU-4940C			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler		Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]		

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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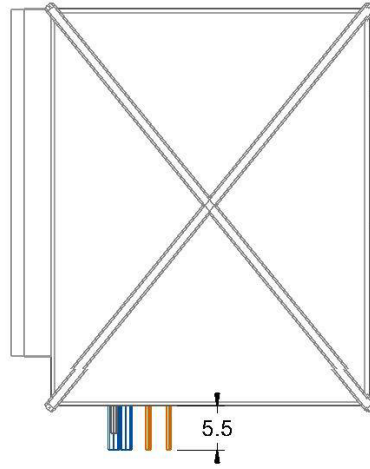
ELI LILLY

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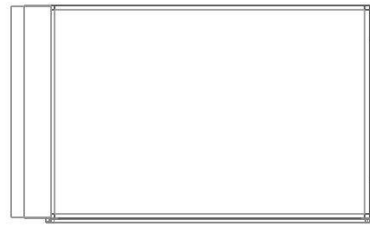
3/2/2023

FCU-4940C


Drawings(Front Bottom)



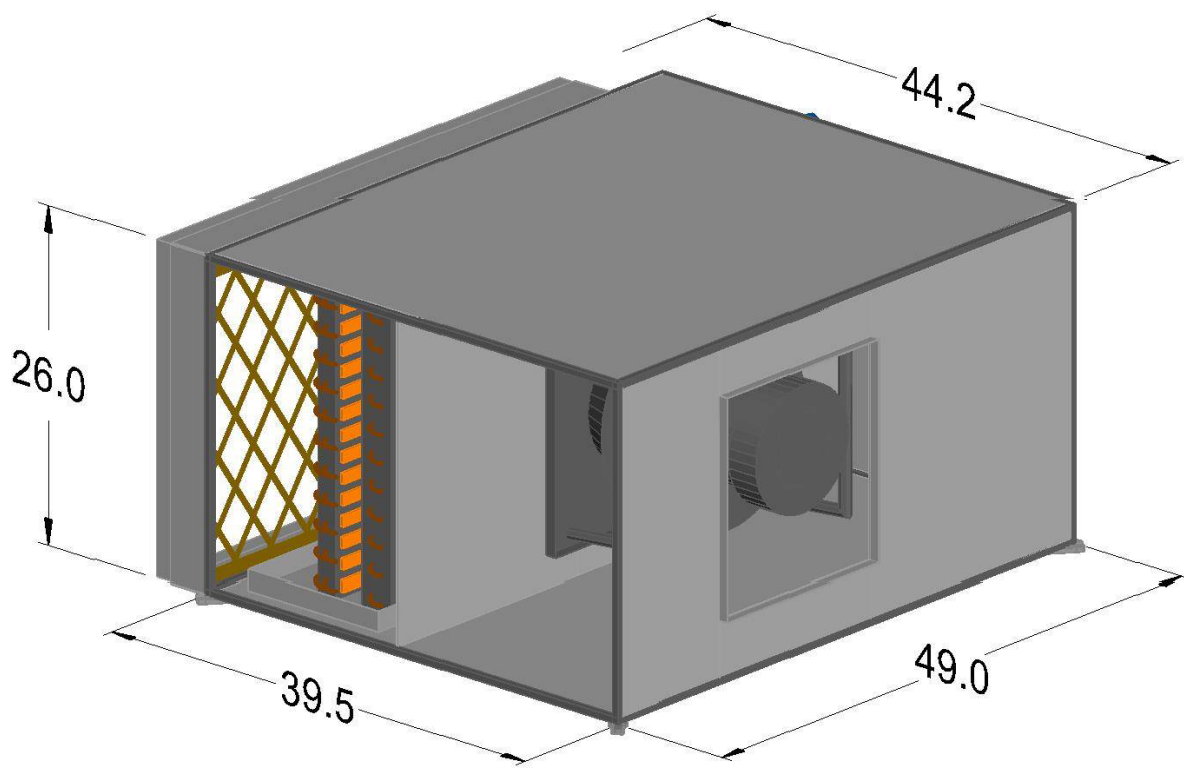
BOTTOM VIEW



BACK VIEW

<b>Front Bottom</b>		Unit Tag: FCU-4940C		Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 05.60
Product: PreciseLine® Air Handler		Project Name: ELI LILLY		Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.



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FCU-4940C

Drawings(Model View)

<b>Model View</b>	Unit Tag: FCU-4940C			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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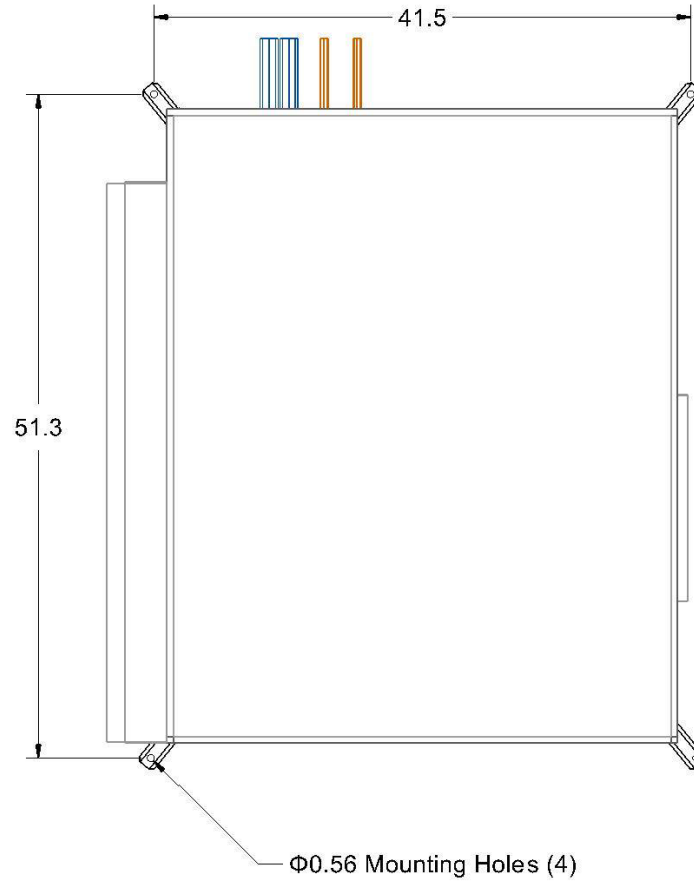
ELI LILLY

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FCU-4940C

Drawings(Mounting View)



PLAN VIEW - MOUNTING

<b>Mounting View</b>	Unit Tag: FCU-4940C	Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com    Software Version: 05.60	
Product: PreciseLine® Air Handler	Project Name: ELI LILLY	Sales Engineer:				
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]

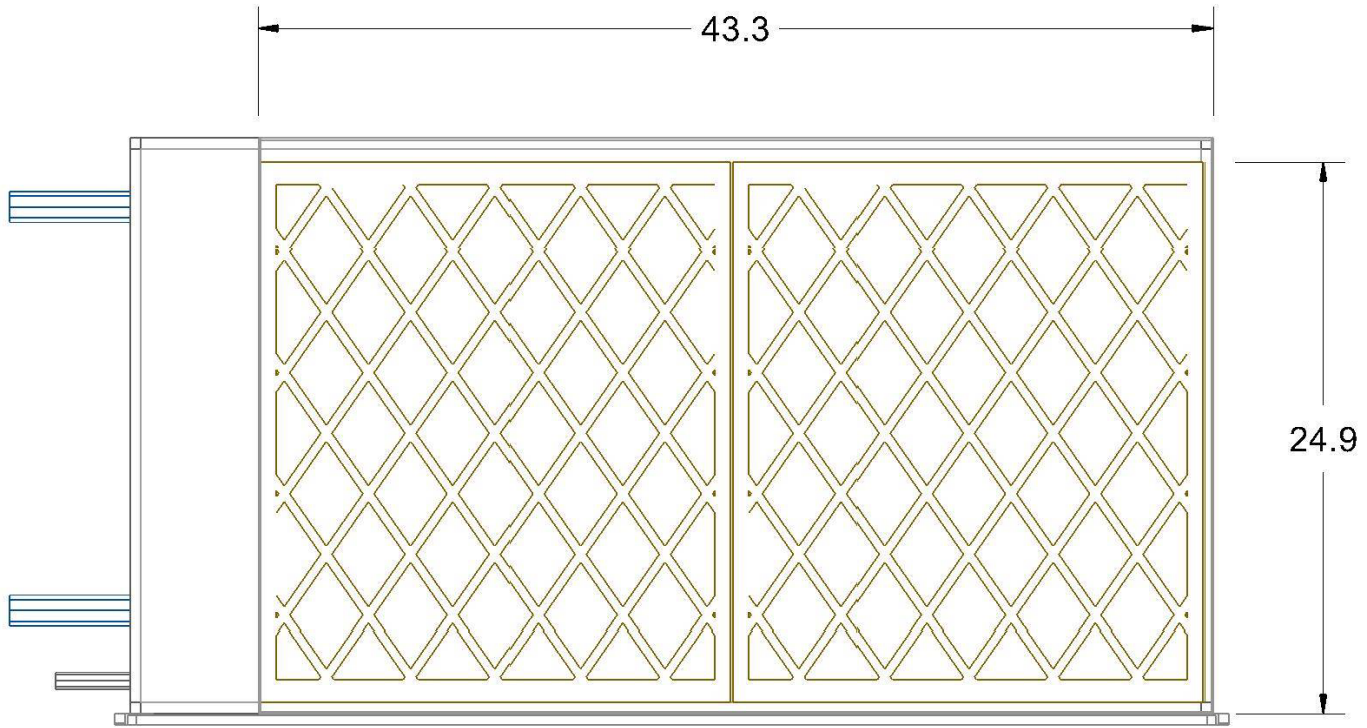
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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RIGHT VIEW

FCU-4940C

Drawings(Right View)

<b>Right View</b>	Unit Tag: FCU-4940C			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

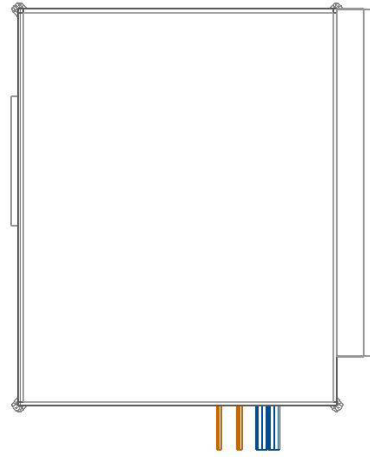
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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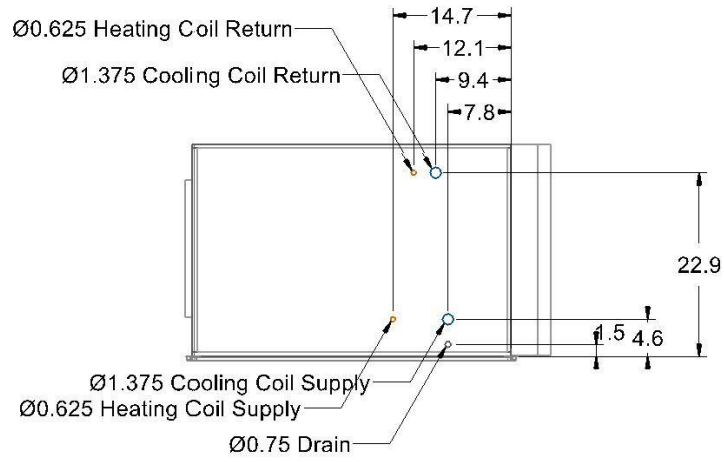
ELI LILLY

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TOP VIEW



FRONT VIEW

FCU-4940C

Drawings(Top Back)

<b>Top Back</b>	Unit Tag: FCU-4940C	Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 05.60		
Product: PreciseLine® Air Handler	Project Name: ELI LILLY	Sales Engineer:					
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS			

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

Job Information		Technical Data Sheet
Job Name	ELI LILLY	
Date	3/2/2023	
Submitted By	Vijay Periannan	
Software Version	05.60	
Unit Tag	FCU-4940D	



Unit Overview				Design Cooling Capacity
Model Number	Voltage V/Hz/Phase	Airflow CFM	External Static Pressure inH <sub>2</sub> O	Btu/hr
BCHE0301	460/60/3	1800	1.00	42676

Unit	
Model Number:	BCHE0301
Unit Arrangement:	Horizontal
Altitude:	705 ft

Physical			
Dimensions and Weight (wet)			
Length	Height	Width	Weight
40 in	26.0 in	49.0 in	547 lb
Construction			
Insulation and Liners:	1" Injected Foam, R-6, Galvanized Steel Liner		

Electrical			
Field Connection	M CA	M ROPD	SCCR
Toggle Disconnect Switch	7.0	15	5 kA

Filter					
Filter Access	Filter Depth		MERV Rating		(Quantity) Height x Width x Depth
	1 <sup>st</sup> Filter	2 <sup>nd</sup> Filter	1 <sup>st</sup> Filter	2 <sup>nd</sup> Filter	(each bank)
Bottom	2 in	2 in	MERV 8	MERV 13	(2) 25.38 x 21.88

Primary Hydronic Coil					
Physical					
Fins per Inch	Rows	Casing Material	Face Area ft <sup>2</sup>	Face Velocity ft/min	
12	4	Stainless Steel	6.0	298.3	
Connection					
Size	Type		Location		
1.38	F-SWT		Right Hand		
Drain Pan					
Material	Connection				
Stainless Steel	0.75 in				
Performance					
Capacity		Air Temperature			
Total Btu/hr	Sensible Btu/hr	Entering		Leaving	
		Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F
42676	38360	72.0	60.0	52.0	51.3

Fluid				
Type	Entering Temperature °F	Leaving Temperature °F	Flow Rate gpm	Pressure Drop ft H <sub>2</sub> O
Water	42.0	55.5	6.3	2.57

## Supply Fan

Performance							
Airflow	Total Static Pressure	Fan Speed	Controller Input Signal	Brake Horsepower	Total Input Power	Fan Energy Index	Altitude
1800.00 CFM	2.00 inH <sub>2</sub> O	2013 rpm	6.3 VDC	0.81 HP	0.95 HP	1.762	705 ft
Motor							
Type	Horsepower	Motor Control			FLA		
Premium Efficiency	4.42 Hp	0-10V Modulating			5.6 A		

## Unit Discharge Conditions

Air Temperature			
Motor Heat Btu/hr	Unit Leaving Dry Bulb °F	Unit Leaving Wet Bulb °F	Unit Leaving Dewpoint °F
2836	53.4	51.8	50.6

## Internal Pressure Drop Calculation

External Static Pressure:	1.00 inH <sub>2</sub> O
Filter:	0.08 inH <sub>2</sub> O
Second Filter:	0.20 inH <sub>2</sub> O
Dirty Filter:	0.50 inH <sub>2</sub> O
Chilled Water Coil:	0.21 inH <sub>2</sub> O
Total Static Pressure:	2.00 inH <sub>2</sub> O

## Options

Controls	
Overflow Switch:	Factory mounted Overflow Switch

## Warranty

Parts:	Standard warranty
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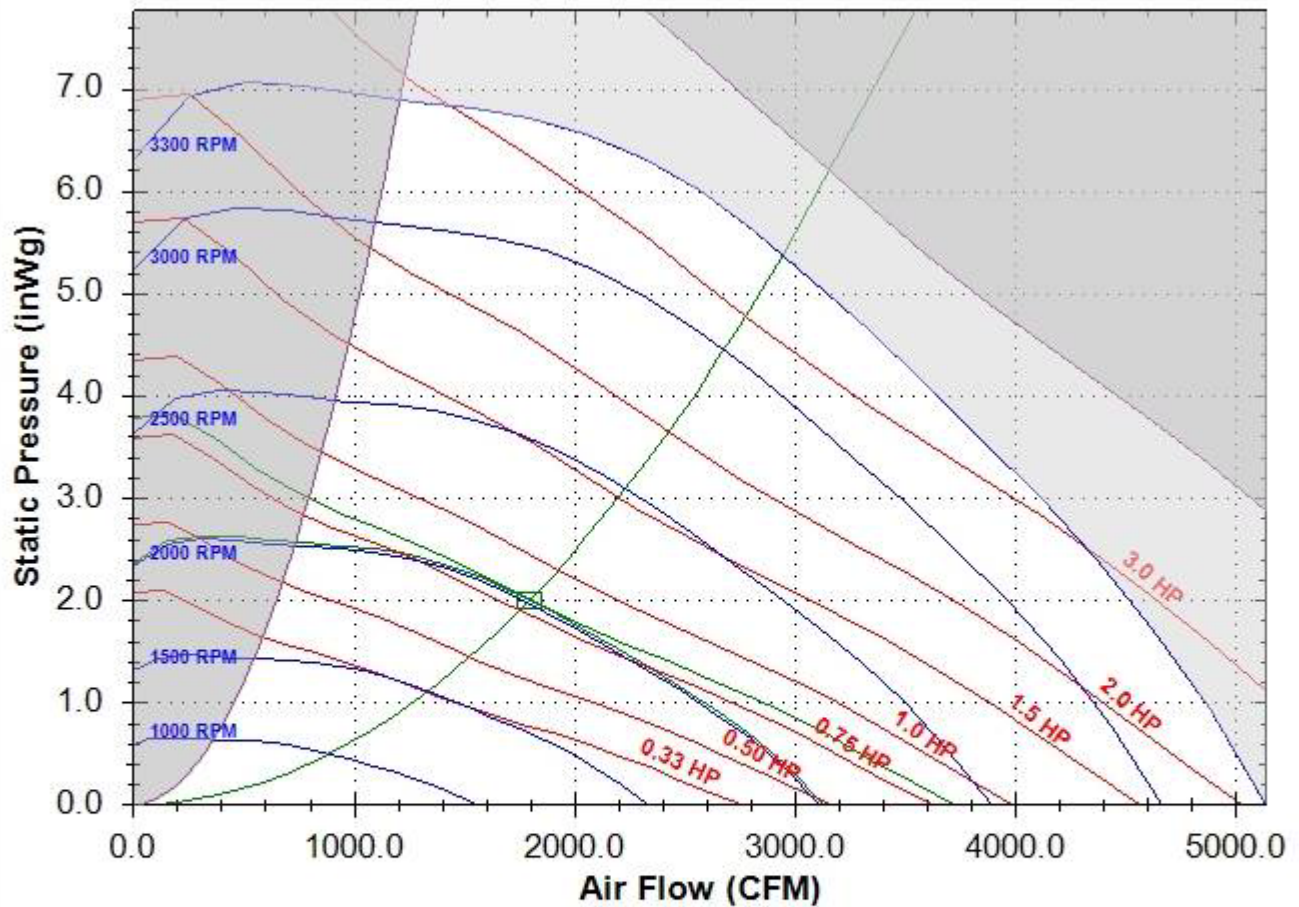
## AHRI Certification



All equipment is rated and certified in accordance with AHRI 430.

## Notes

### Daikin Air Handler Packaged Fan Selection



355.0 SWSI_AF Supply Fan at 705 ft Altitude				
Base Tag	FCU-4940D		Date	Mar-02-2023
Job Name	ELI LILLY		Time	8:02 AM
Air Volume	1800	CFM	Fan Speed	2013 RPM
Total Static	2.00	inWg	Max Speed	3300 RPM
Brake Horsepower	0.81	HP	Efficiency	69.6 %

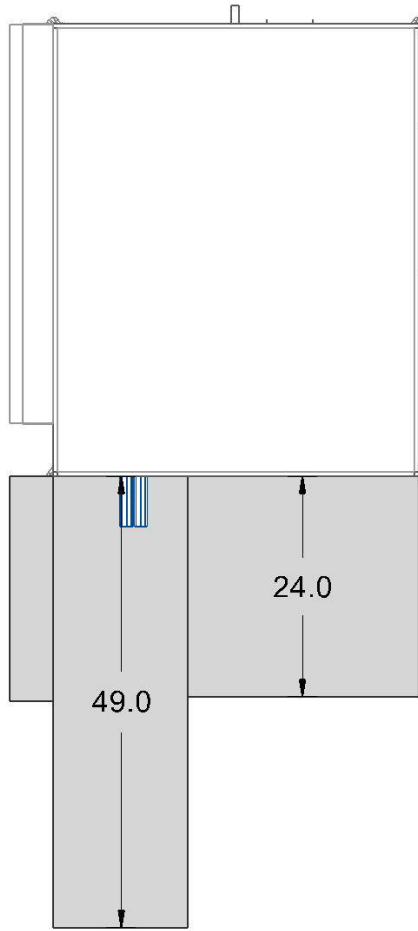


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ELI LILLY

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PLAN VIEW - SERVICE CLEARANCE

FCU-4940D

Drawings(Clearance View)

<b>Clearance View</b>	Unit Tag: FCU-4940D			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

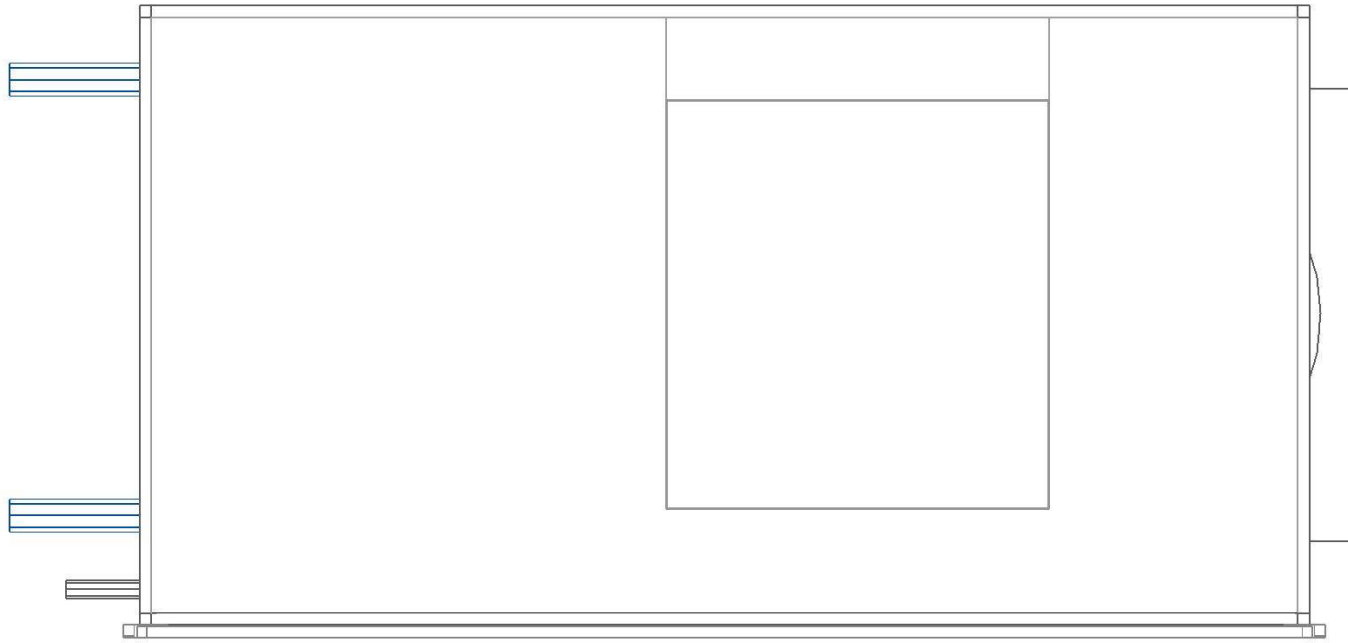
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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ELI LILLY

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FCU-4940D

Drawings(Discharge View)

### DISCHARGE VIEW

<b>Discharge View</b>		Unit Tag: FCU-4940D		Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler		Project Name: ELI LILLY		Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

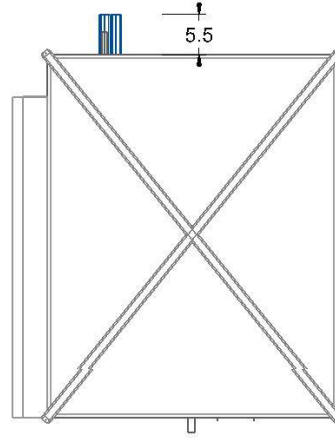
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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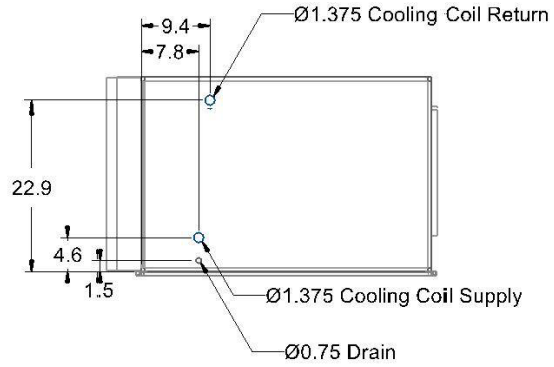
ELI LILLY

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BOTTOM VIEW



BACK VIEW

FCU-4940D

Drawings(Front Bottom)

<b>Front Bottom</b>		Unit Tag: FCU-4940D			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 05.60
Product: PreciseLine® Air Handler		Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]		

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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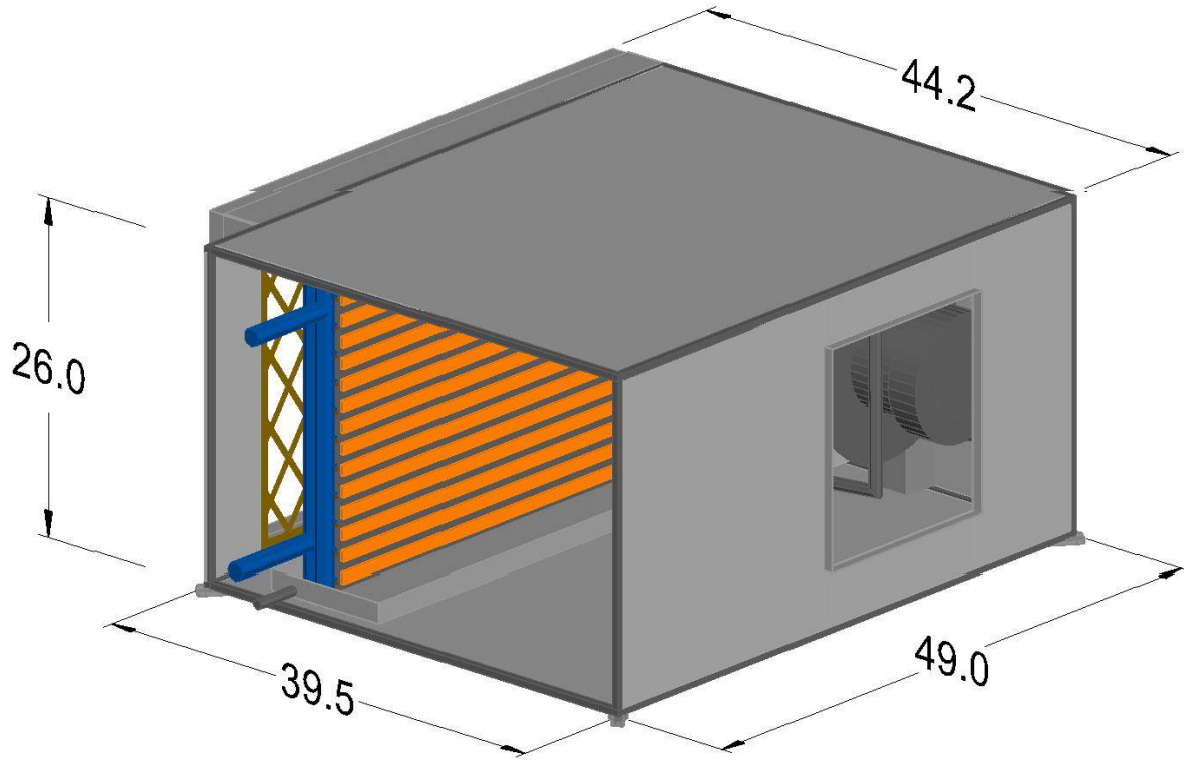
ELI LILLY


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FCU-4940D

Drawings(Model View)



<b>Model View</b>	Unit Tag: FCU-4940D			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com      Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

SFONUE

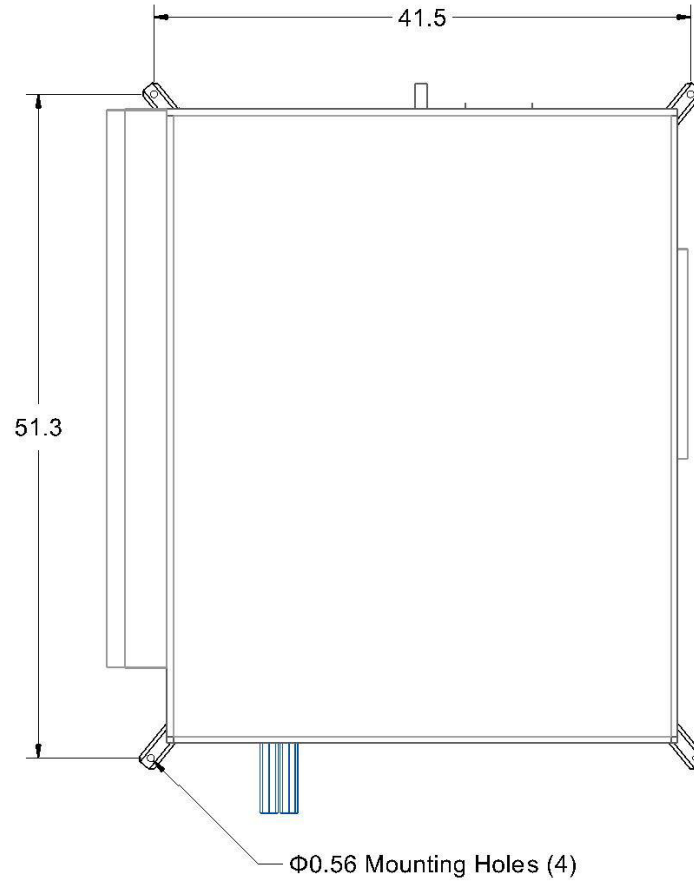
ELI LILLY

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FCU-4940D

Drawings(Mounting View)



PLAN VIEW - MOUNTING

<b>Mounting View</b>	Unit Tag: FCU-4940D	Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 05.60		
Product: PreciseLine® Air Handler	Project Name: ELI LILLY	Sales Engineer:					
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

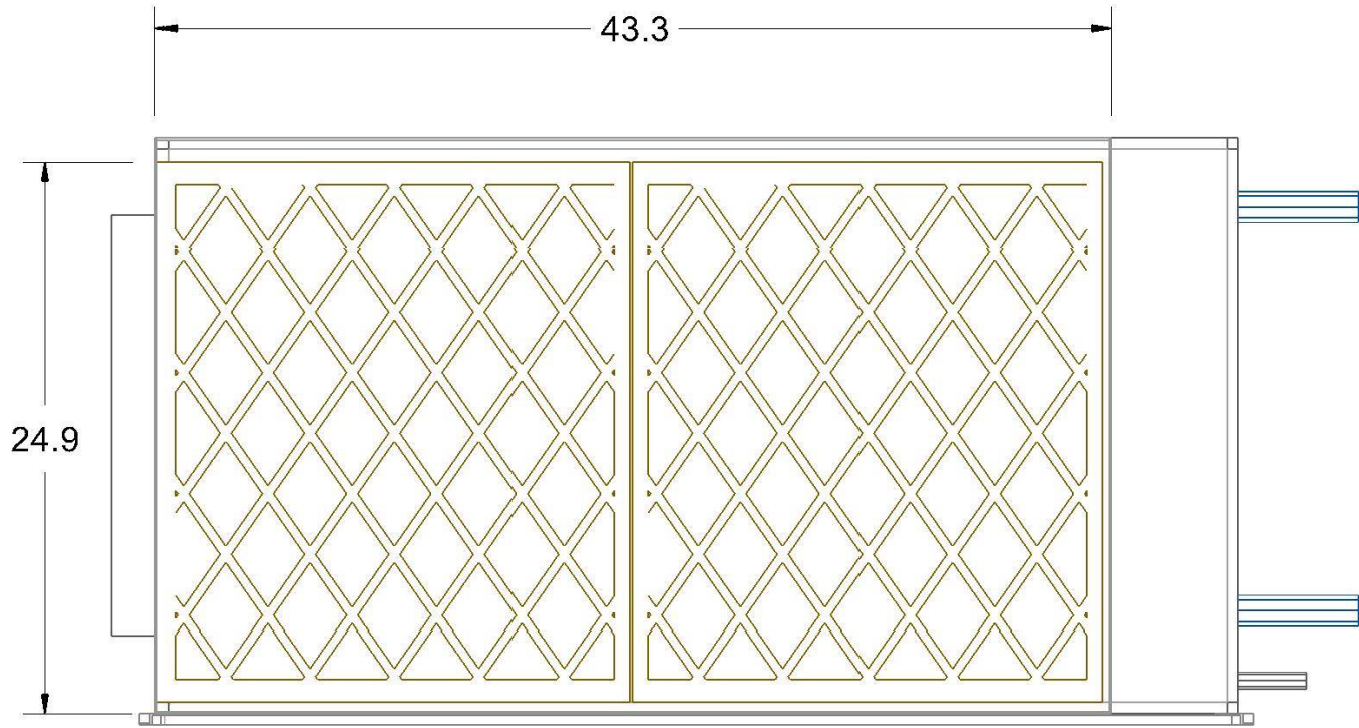
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

SFONUE

ELI LILLY

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RIGHT VIEW

FCU-4940D

Drawings(Right View)

<b>Right View</b>	Unit Tag: FCU-4940D			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

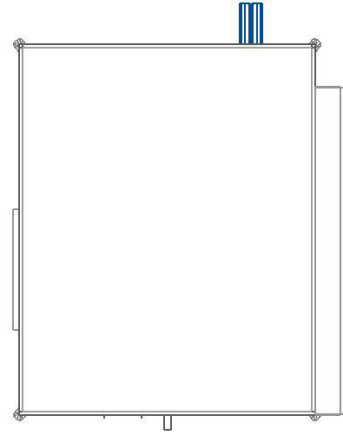
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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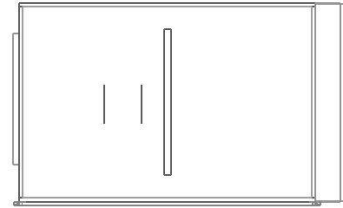
ELI LILLY

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TOP VIEW



FRONT VIEW

FCU-4940D

Drawings(Top Back)

<b>Top Back</b>		Unit Tag: FCU-4940D		Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler		Project Name: ELI LILLY		Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

Job Information		Technical Data Sheet
Job Name	ELI LILLY	
Date	3/2/2023	
Submitted By	Vijay Periannan	
Software Version	05.60	
Unit Tag	FCU-4940E	



Unit Overview				
Model Number	Voltage V/Hz/Phase	Airflow CFM	External Static Pressure inH <sub>2</sub> O	Design Cooling Capacity Btu/hr
BCHE0501	460/60/3	4500	1.00	109100

Unit	
Model Number:	BCHE0501
Unit Arrangement:	Horizontal
Altitude:	705 ft

Physical			
Dimensions and Weight (wet)			
Length	Height	Width	Weight
41 in	32.0 in	61.0 in	823 lb
Construction			
Insulation and Liners:	1" Injected Foam, R-6, Galvanized Steel Liner		

Electrical			
Field Connection	M CA	M ROPD	SCCR
Toggle Disconnect Switch	12.6	15	5 kA

Filter					
Filter Access	Filter Depth		MERV Rating		(Quantity) Height x Width x Depth (each bank)
	1 <sup>st</sup> Filter	2 <sup>nd</sup> Filter	1 <sup>st</sup> Filter	2 <sup>nd</sup> Filter	
Bottom	2 in	2 in	MERV 8	MERV 13	(2) 28.00 x 27.81

Primary Hydronic Coil					
Physical					
Fins per Inch	Rows	Casing Material	Face Area ft <sup>2</sup>	Face Velocity ft/min	
12	4	Stainless Steel	10.0	449.4	
Connection					
Size	Type		Location		
1.62	F-SWT		Left Hand		
Drain Pan					
Material	Connection				
Stainless Steel	0.75 in				
Performance					
Capacity		Air Temperature			
Total Btu/hr	Sensible Btu/hr	Entering		Leaving	
		Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F
109100	95898	72.0	60.0	52.0	51.1

Fluid				
Type	Entering Temperature °F	Leaving Temperature °F	Flow Rate gpm	Pressure Drop ft H <sub>2</sub> O
Water	42.0	55.4	16.3	10.75

**Supply Fan**

Performance							
Airflow	Total Static Pressure	Fan Speed	Controller Input Signal	Brake Horsepower (combined motors)	Total Input Power	Fan Energy Index	Altitude
4500.00 CFM	2.40 inH <sub>2</sub> O	2314 rpm	7.1 VDC	2.45 HP	2.75 HP	1.668	705 ft

Motor			
Type	Horsepower	Motor Control	FLA
Premium Efficiency	2 x 4.42 Hp	0-10V Modulating	5.6 A

**Unit Discharge Conditions**

Air Temperature			
Motor Heat Btu/hr	Unit Leaving Dry Bulb °F	Unit Leaving Wet Bulb °F	Unit Leaving Dewpoint °F
8155	53.7	51.7	50.2

**Internal Pressure Drop Calculation**

External Static Pressure:	1.00 inH <sub>2</sub> O
Filter:	0.17 inH <sub>2</sub> O
Second Filter:	0.34 inH <sub>2</sub> O
Dirty Filter:	0.50 inH <sub>2</sub> O
Chilled Water Coil:	0.40 inH <sub>2</sub> O
<b>Total Static Pressure:</b>	<b>2.40 inH<sub>2</sub>O</b>

**Options**

Controls	
Overflow Switch:	Factory mounted Overflow Switch

**Warranty**

Parts:	Standard warranty
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**AHRI Certification**



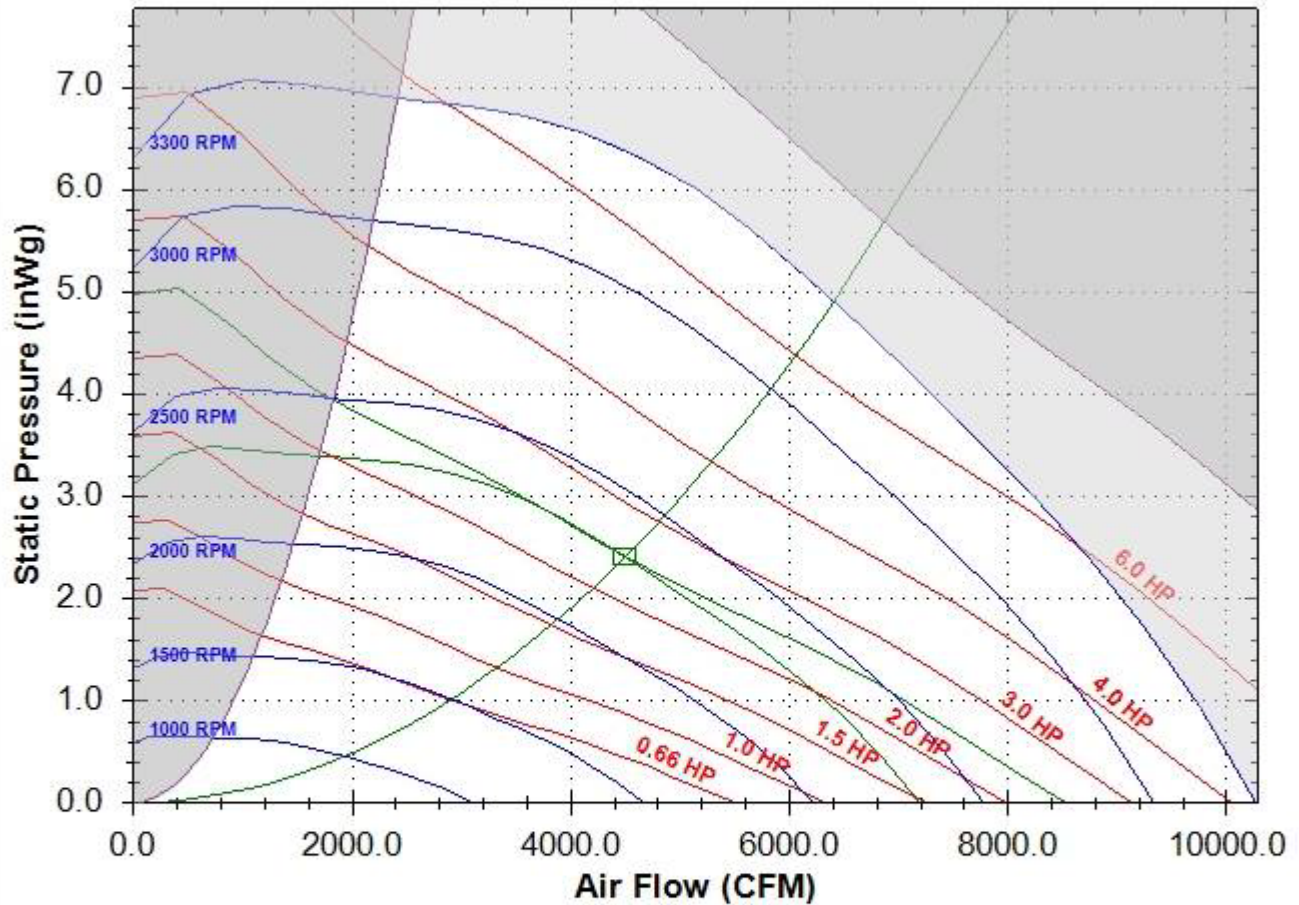
All equipment is rated and certified in accordance with AHRI 430.

**Notes**

**Accessories**

Optional	
Part Number	Description
910233089	Kit, Isolator Vibration (Qty = 4)

### Daikin Air Handler Packaged Fan Selection



355.0 SWSI\_AF Supply Fan at 705 ft Altitude

Base Tag	FCU-4940E	Date	Mar-02-2023
Job Name	ELI LILLY	Time	8:02 AM
Air Volume	4500 CFM	Fan Speed	2314 RPM
Total Static	2.40 inWg	Max Speed	3300 RPM
Brake Horsepower	2.45 HP	Efficiency	69.3 %



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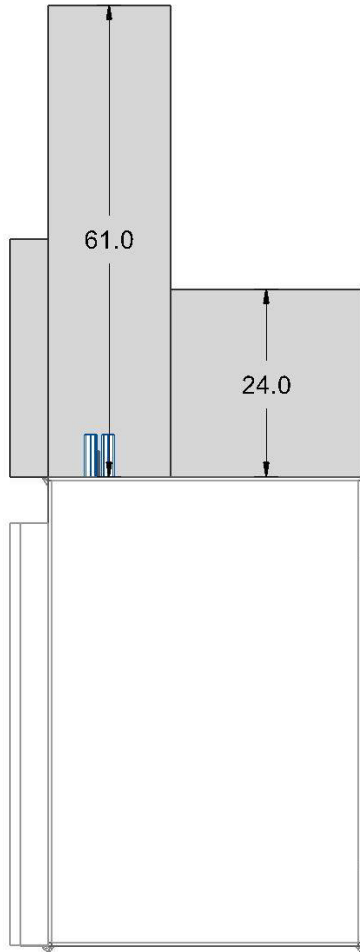
ELI LILLY

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FCU-4940E

Drawings(Clearance View)



PLAN VIEW - SERVICE CLEARANCE

<b>Clearance View</b>	Unit Tag: FCU-4940E			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0501	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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ELI LILLY

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FCU-4940E

Drawings(Discharge View)

### DISCHARGE VIEW

<b>Discharge View</b>	Unit Tag: FCU-4940E			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0501	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

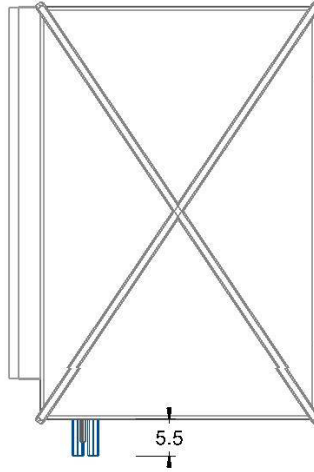
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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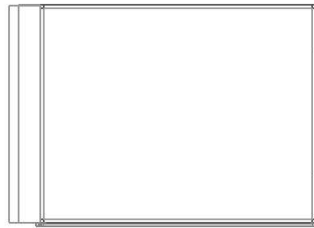
ELI LILLY

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BOTTOM VIEW



BACK VIEW

FCU-4940E

Drawings(Front Bottom)

<b>Front Bottom</b>	Unit Tag: FCU-4940E			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0501	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

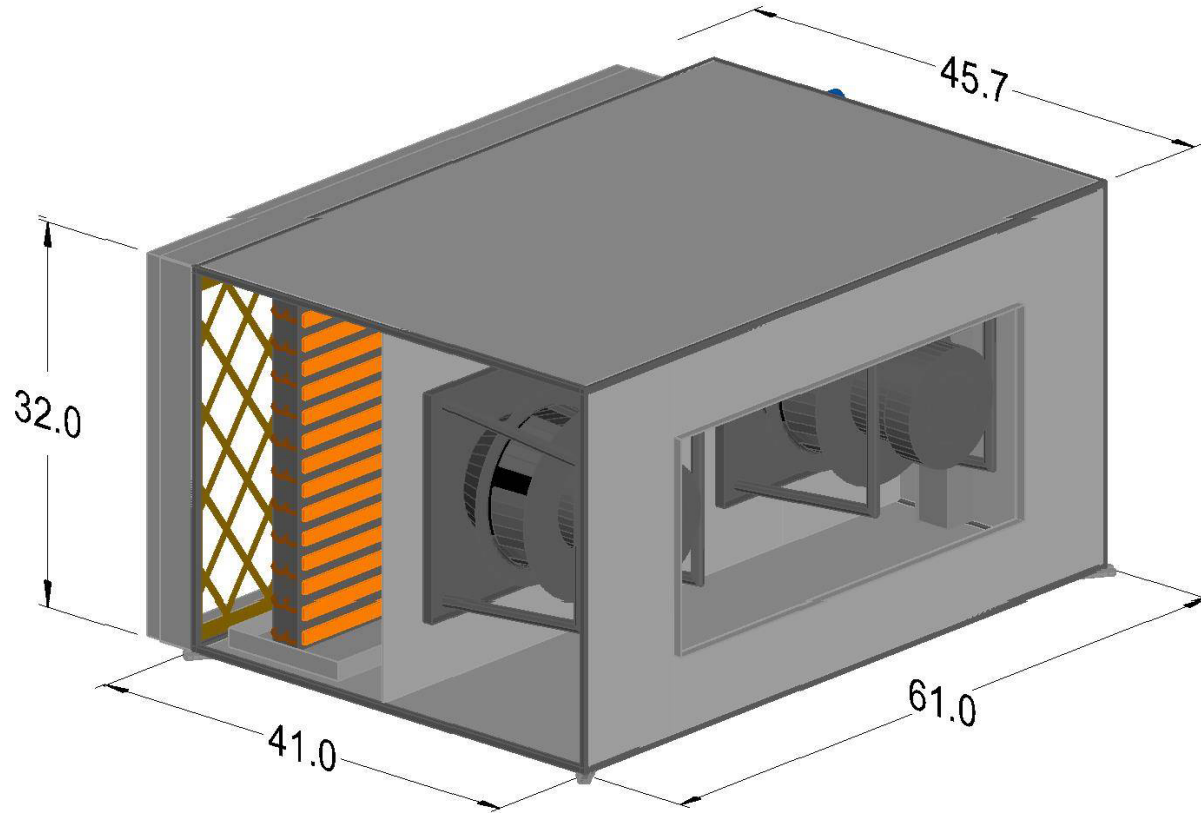
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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ELI LILLY


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FCU-4940E

Drawings(Model View)

<b>Model View</b>	Unit Tag: FCU-4940E	Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60		
Product: PreciseLine® Air Handler	Project Name: ELI LILLY	Sales Engineer:					
Model: BCHE0501	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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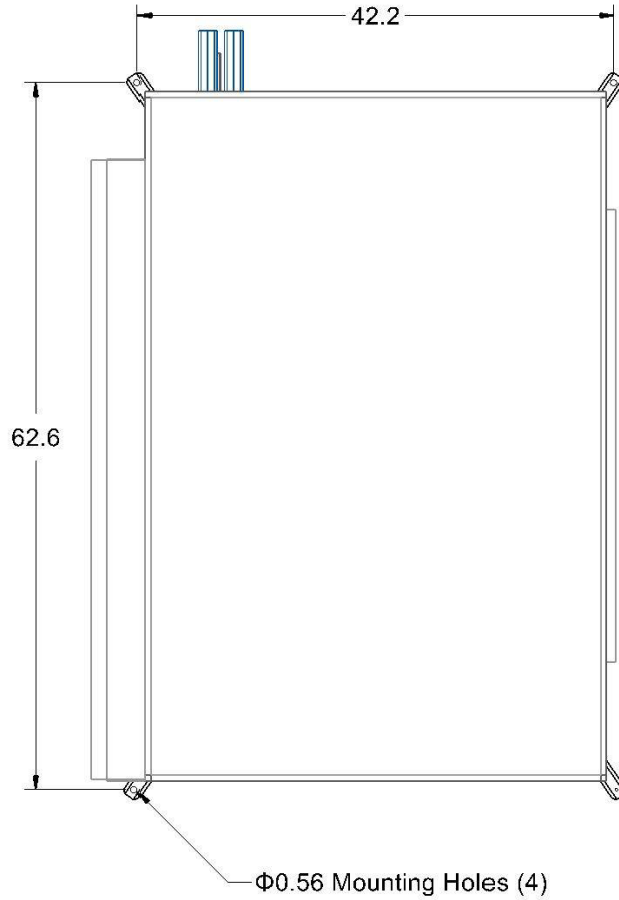
ELI LILLY

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FCU-4940E

Drawings(Mounting View)



PLAN VIEW - MOUNTING

<b>Mounting View</b>	Unit Tag: FCU-4940E			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0501	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

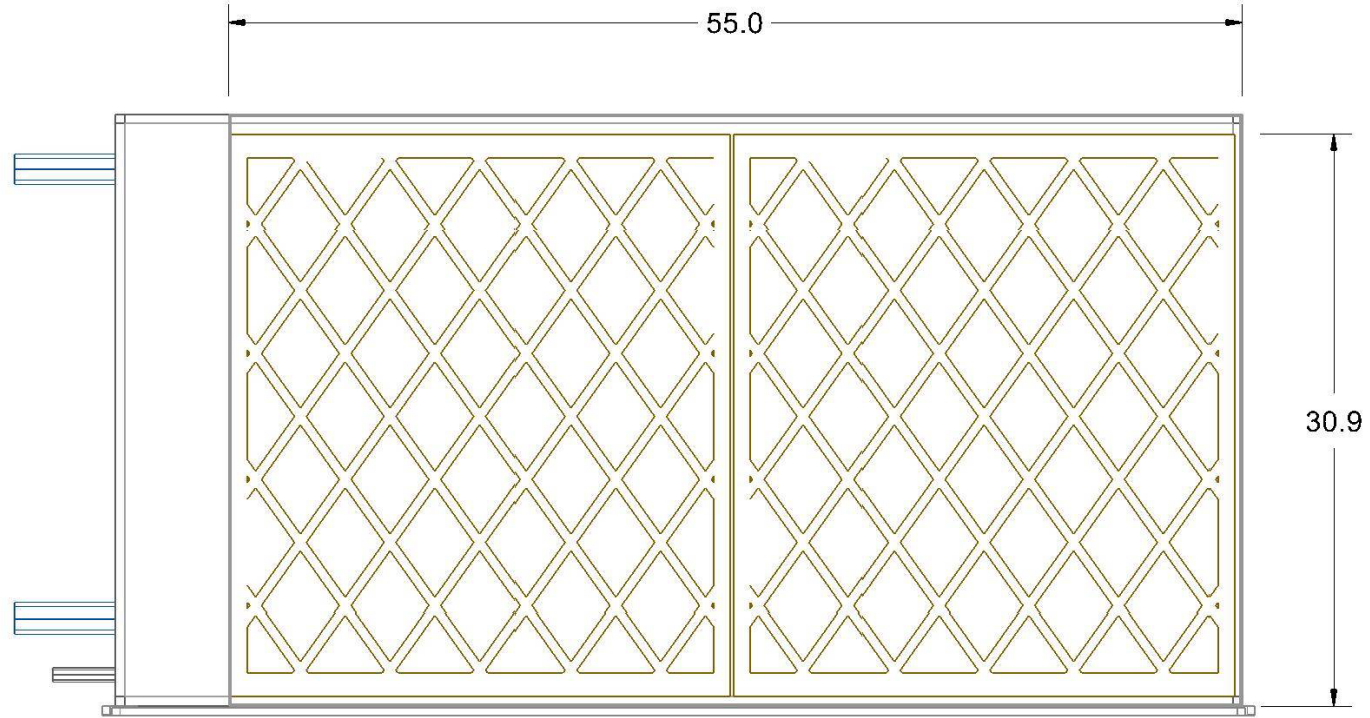
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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ELI LILLY

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RIGHT VIEW

FCU-4940E

Drawings(Right View)

<b>Right View</b>	Unit Tag: FCU-4940E	Sales Office: Hoffman & Hoffman, Inc.					 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY	Sales Engineer:					
Model: BCHE0501	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

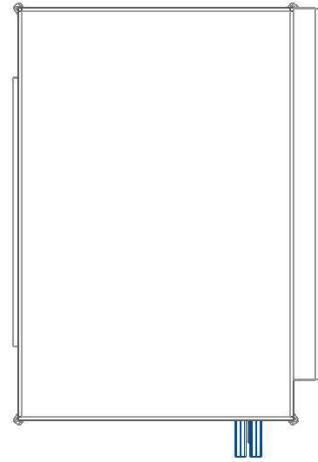
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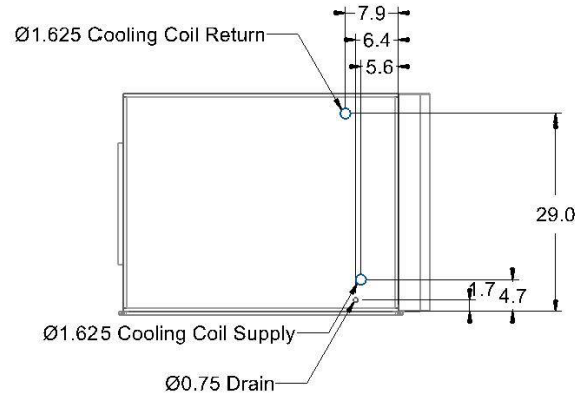
ELI LILLY

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TOP VIEW



FRONT VIEW

FCU-4940E

Drawings(Top Back)

<b>Top Back</b>		Unit Tag: FCU-4940E		Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 05.60
Product: PreciseLine® Air Handler		Project Name: ELI LILLY		Sales Engineer:			
Model: BCHE0501	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

Job Information		Technical Data Sheet
Job Name	ELI LILLY	
Date	3/2/2023	
Submitted By	Vijay Periannan	
Software Version	05.60	
Unit Tag	FCU-4940F	



Unit Overview				
Model Number	Voltage V/Hz/Phase	Airflow CFM	External Static Pressure inH <sub>2</sub> O	Design Cooling Capacity Btu/hr
BCHE0301	460/60/3	1200	1.00	27880

Unit	
Model Number:	BCHE0301
Unit Arrangement:	Horizontal
Altitude:	705 ft

Physical			
Dimensions and Weight (wet)			
Length	Height	Width	Weight
40 in	26.0 in	49.0 in	567 lb
Construction			
Insulation and Liners:	1" Injected Foam, R-6, Galvanized Steel Liner		

Electrical			
Field Connection	M CA	M ROPD	SCCR
Toggle Disconnect Switch	7.0	15	5 kA

Filter					
Filter Access	Filter Depth		MERV Rating		(Quantity) Height x Width x Depth
	1 <sup>st</sup> Filter	2 <sup>nd</sup> Filter	1 <sup>st</sup> Filter	2 <sup>nd</sup> Filter	(each bank)
Bottom	2 in	2 in	MERV 8	MERV 13	(2) 25.38 x 21.88

Primary Hydronic Coil					
Physical					
Fins per Inch	Rows	Casing Material	Face Area ft <sup>2</sup>	Face Velocity ft/min	
12	4	Stainless Steel	6.0	198.8	
Connection					
Size	Type		Location		
1.38	F-SWT		Left Hand		
Drain Pan					
Material	Connection				
Stainless Steel	0.75 in				
Performance					
Capacity		Air Temperature			
Total Btu/hr	Sensible Btu/hr	Entering		Leaving	
		Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F
27880	25523	72.0	60.0	52.0	51.5

Fluid				
Type	Entering Temperature °F	Leaving Temperature °F	Flow Rate gpm	Pressure Drop ft H <sub>2</sub> O
Water	42.0	55.6	4.1	1.21

**Secondary Hydronic Coil**

Physical				
Fins per Inch	Rows	Casing Material	Face Area ft <sup>2</sup>	Face Velocity ft/min
12	1	Stainless Steel	6.0	198.8
Connection				
Size	Type	Location		
0.62	F-SWT	Left Hand		
Performance				
Total Btu/hr	Air Temperature			
	Dry Bulb °F			Dry Bulb °F
32683	60.0			85.6
Fluid				
Type	Entering Temperature °F	Leaving Temperature °F	Flow Rate gpm	Pressure Drop ft H <sub>2</sub> O
Water	130.0	96.9	2.0	0.55

**Supply Fan**

Performance							
Airflow	Total Static Pressure	Fan Speed	Controller Input Signal	Brake Horsepower	Total Input Power	Fan Energy Index	Altitude
1200.00 CFM	1.81 inH <sub>2</sub> O	1757 rpm	5.6 VDC	0.52 HP	0.64 HP	1.815	705 ft
Motor							
Type	Horsepower	Motor Control				FLA	
Premium Efficiency	4.42 Hp	0-10V Modulating				5.6 A	

**Unit Discharge Conditions**

Air Temperature			
Motor Heat Btu/hr	Unit Leaving Dry Bulb °F	Unit Leaving Wet Bulb °F	Unit Leaving Dewpoint °F
2085	53.6	52.1	50.9

**Internal Pressure Drop Calculation**

External Static Pressure:	1.00 inH <sub>2</sub> O
Filter:	0.05 inH <sub>2</sub> O
Second Filter:	0.13 inH <sub>2</sub> O
Dirty Filter:	0.50 inH <sub>2</sub> O
Chilled Water Coil:	0.11 inH <sub>2</sub> O
Hot Water Heat:	0.03 inH <sub>2</sub> O
<b>Total Static Pressure:</b>	<b>1.81 inH<sub>2</sub>O</b>

**Options**

Controls	
Overflow Switch:	Factory mounted Overflow Switch

**Warranty**

Parts: Standard warranty

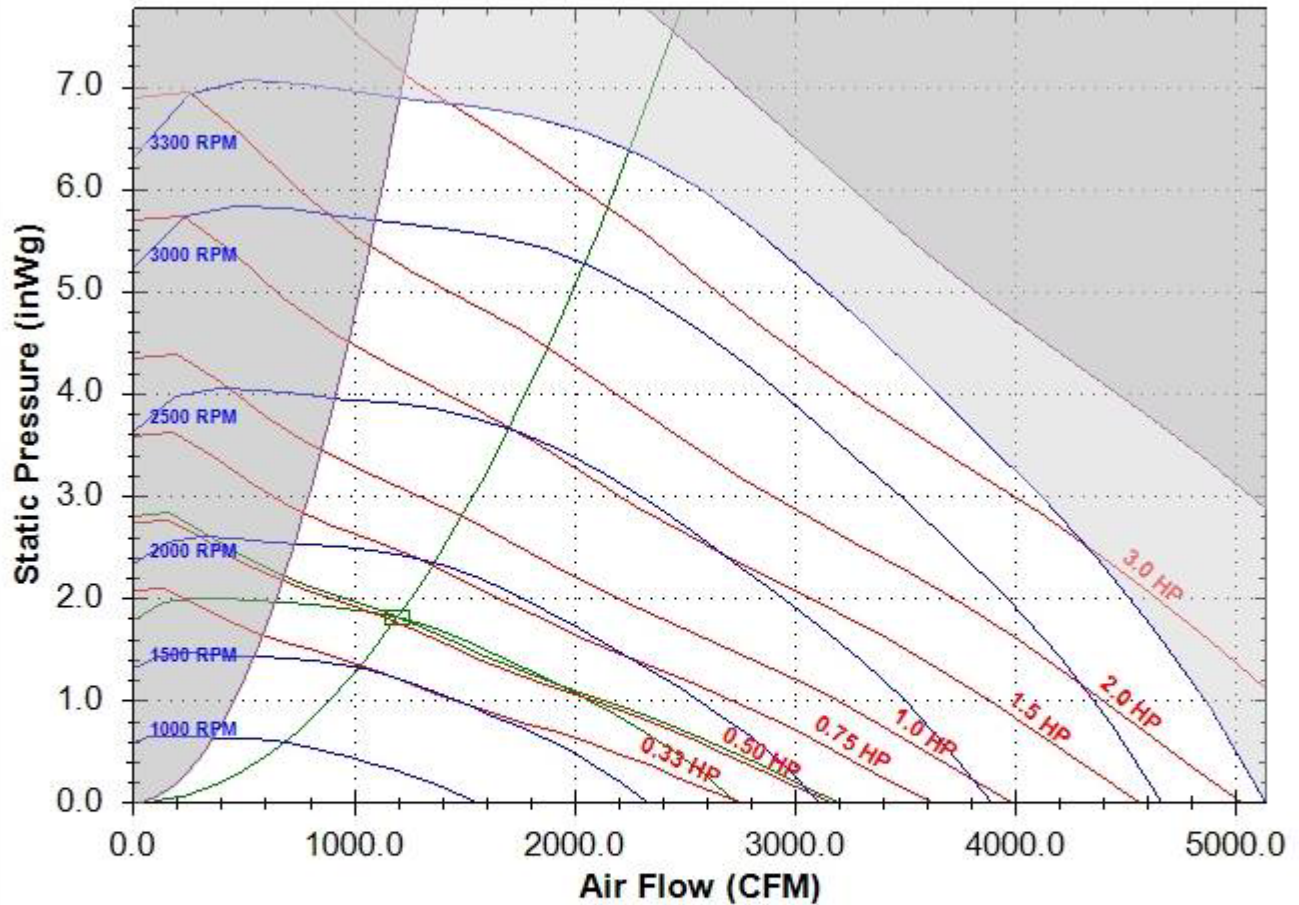
**AHRI Certification**



All equipment is rated and certified in accordance with AHRI 430.

**Notes**

### Daikin Air Handler Packaged Fan Selection



355.0 SWSI\_AF Supply Fan at 705 ft Altitude

Base Tag	FCU-4940F	Date	Mar-02-2023
Job Name	ELI LILLY	Time	8:02 AM
Air Volume	1200 CFM	Fan Speed	1757 RPM
Total Static	1.81 inWg	Max Speed	3300 RPM
Brake Horsepower	0.52 HP	Efficiency	65.8 %

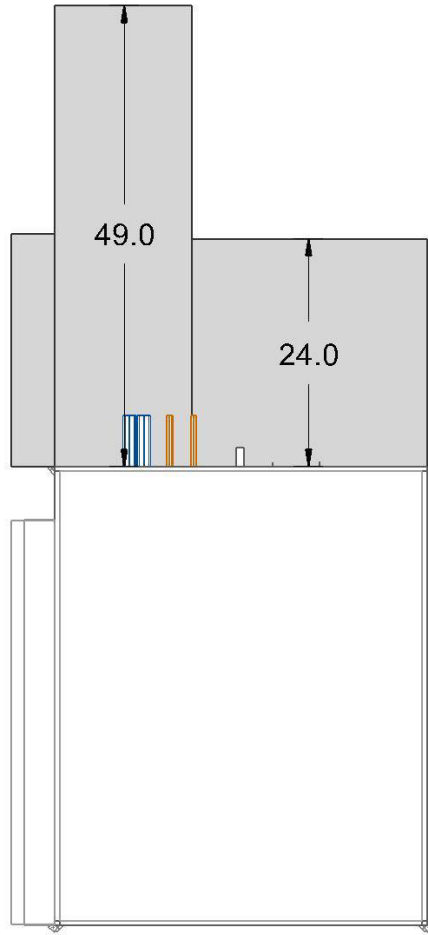


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ELI LILLY

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PLAN VIEW - SERVICE CLEARANCE

FCU-4940F

Drawings(Clearance View)

<b>Clearance View</b>	Unit Tag: FCU-4940F			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

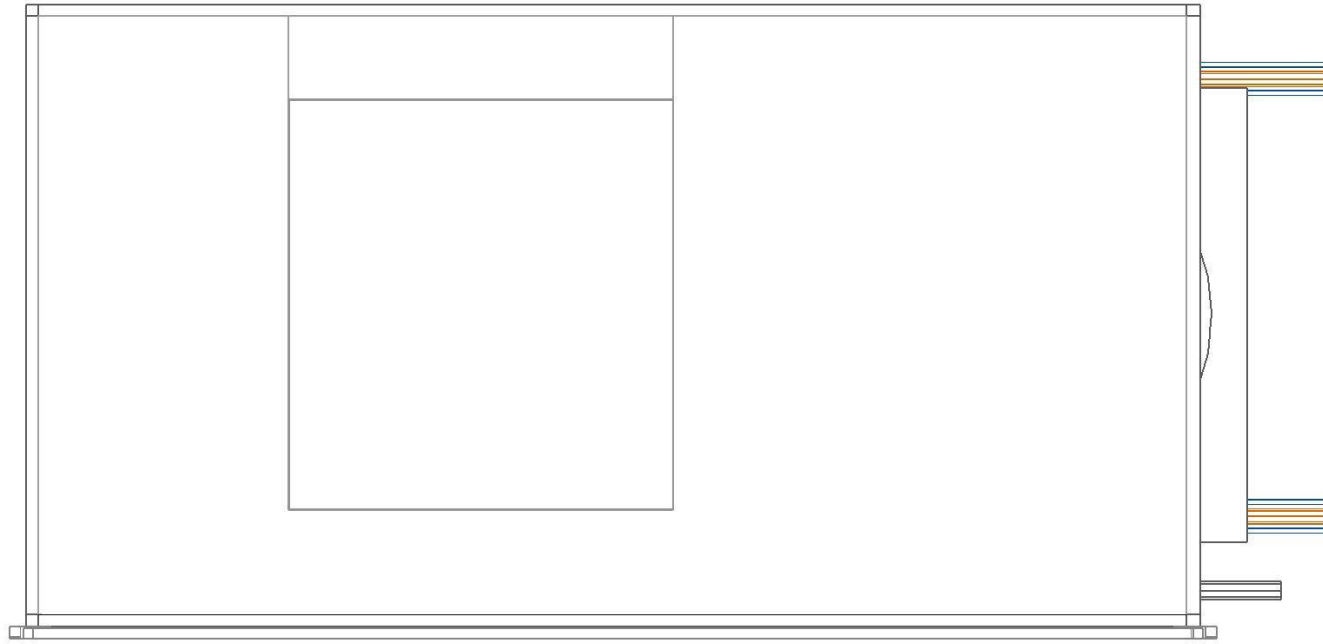
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ELI LILLY

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FCU-4940F

Drawings(Discharge View)

### DISCHARGE VIEW

<b>Discharge View</b>		Unit Tag: FCU-4940F			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler		Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301		Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

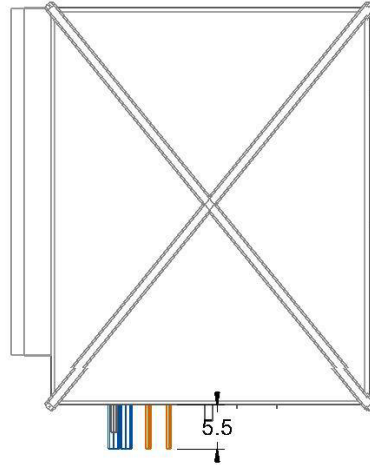
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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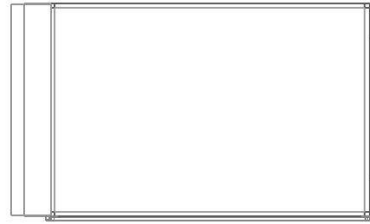
ELI LILLY

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BOTTOM VIEW



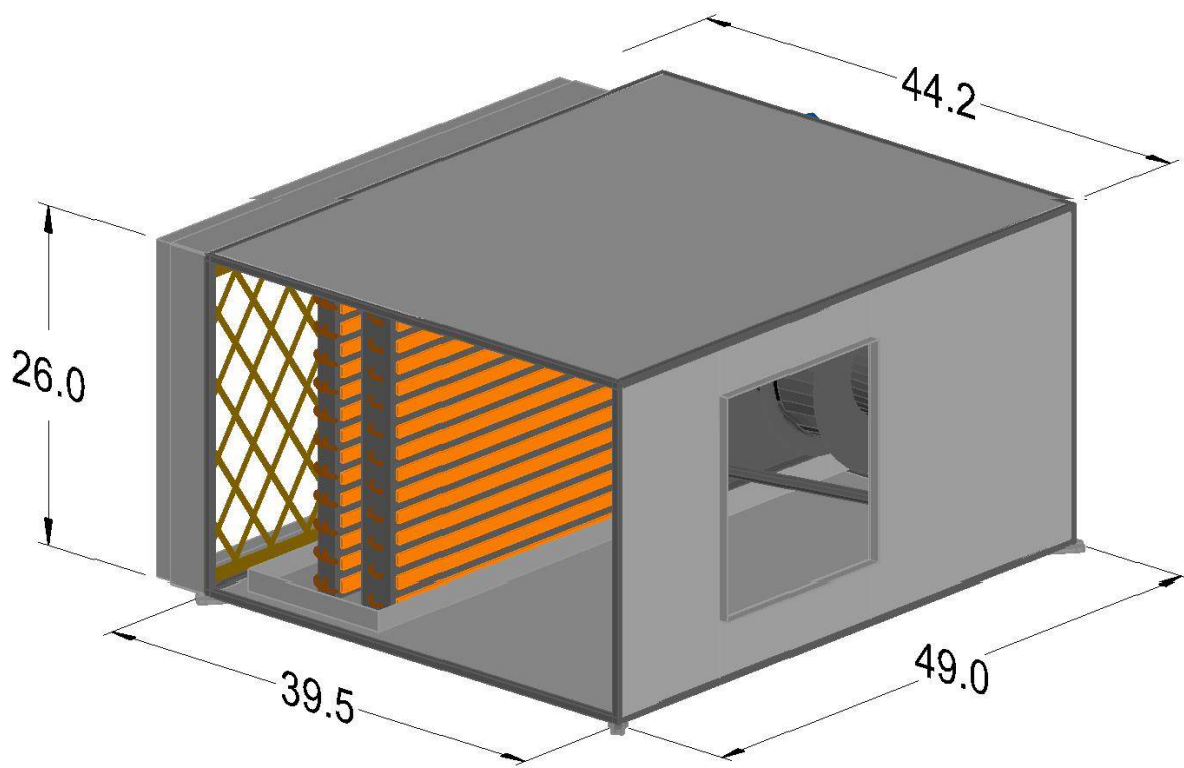
BACK VIEW

FCU-4940F

Drawings(Front Bottom)

<b>Front Bottom</b>		Unit Tag: FCU-4940F			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler		Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]		

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.



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ELI LILLY

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FCU-4940F

Drawings(Model View)

<b>Model View</b>	Unit Tag: FCU-4940F	Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60		
Product: PreciseLine® Air Handler	Project Name: ELI LILLY	Sales Engineer:					
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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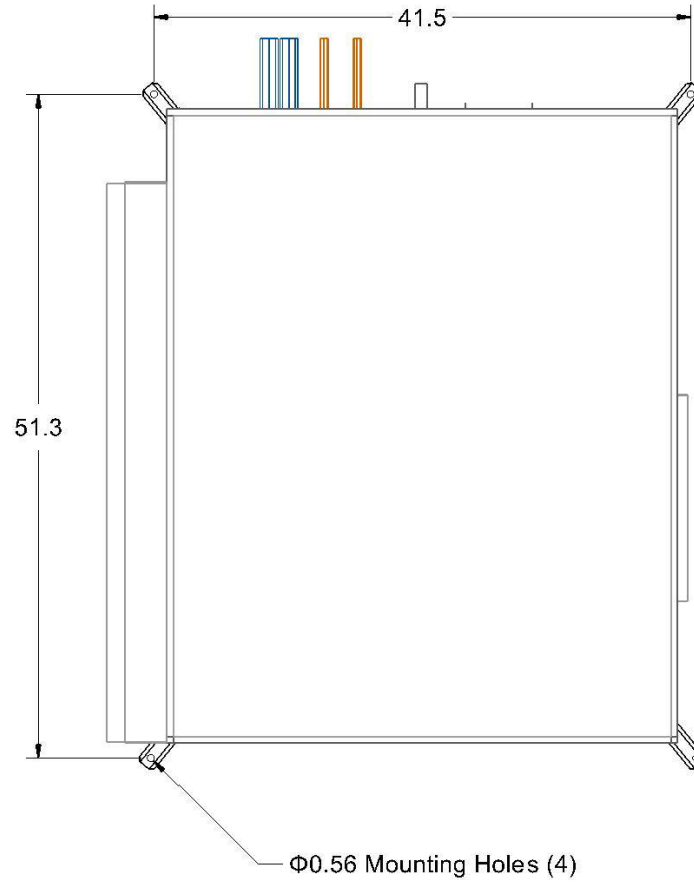
ELI LILLY

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FCU-4940F

Drawings(Mounting View)



PLAN VIEW - MOUNTING

<b>Mounting View</b>	Unit Tag: FCU-4940F	Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 05.60		
Product: PreciseLine® Air Handler	Project Name: ELI LILLY	Sales Engineer:					
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

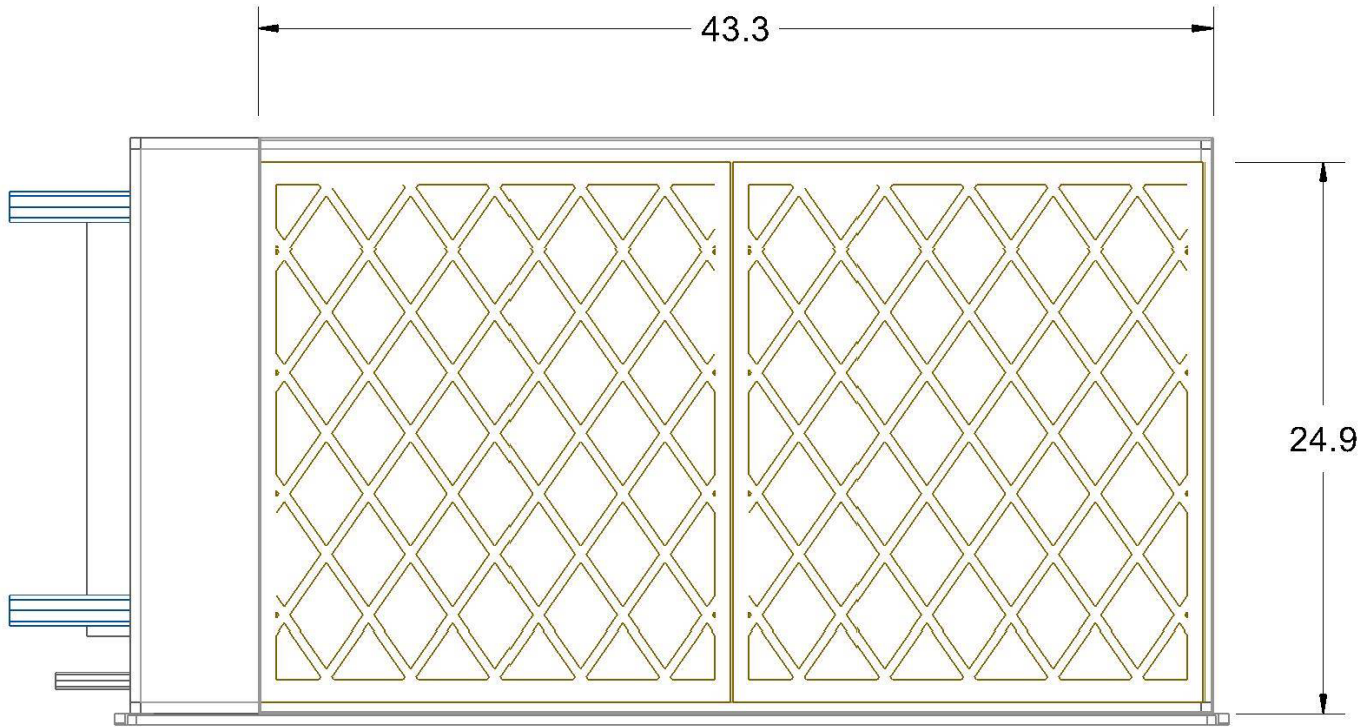
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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ELI LILLY

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RIGHT VIEW

FCU-4940F

Drawings(Right View)

<b>Right View</b>	Unit Tag: FCU-4940F			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

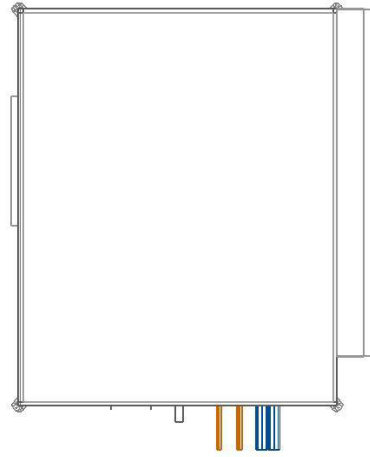
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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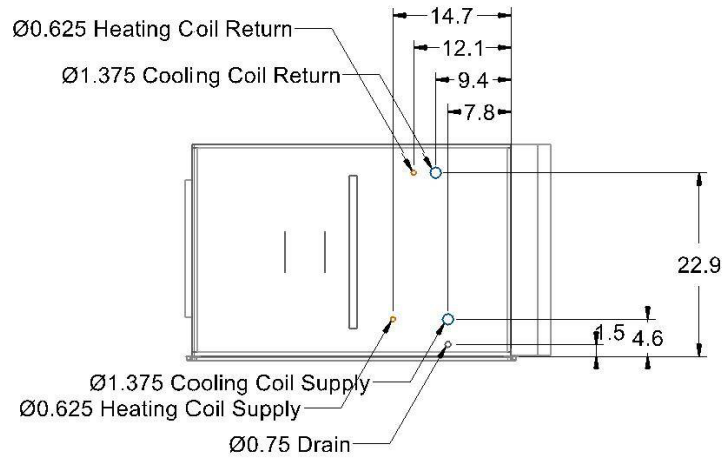
ELI LILLY

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TOP VIEW



FRONT VIEW

FCU-4940F

Drawings(Top Back)

<b>Top Back</b>	Unit Tag: FCU-4940F	Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 05.60	
Product: PreciseLine® Air Handler	Project Name: ELI LILLY	Sales Engineer:				
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

Job Information		Technical Data Sheet
Job Name	ELI LILLY	
Date	3/2/2023	
Submitted By	Vijay Periannan	
Software Version	05.60	
Unit Tag	FCU-4941D	



Unit Overview				
Model Number	Voltage V/Hz/Phase	Airflow CFM	External Static Pressure inH <sub>2</sub> O	Design Cooling Capacity Btu/hr
BCHE0301	460/60/3	2200	1.00	51488

Unit	
Model Number:	BCHE0301
Unit Arrangement:	Horizontal
Altitude:	705 ft

Physical			
Dimensions and Weight (wet)			
Length	Height	Width	Weight
40 in	26.0 in	49.0 in	567 lb
Construction			
Insulation and Liners:	1" Injected Foam, R-6, Galvanized Steel Liner		

Electrical			
Field Connection	M CA	M ROPD	SCCR
Toggle Disconnect Switch	7.0	15	5 kA

Filter					
Filter Access	Filter Depth		MERV Rating		(Quantity) Height x Width x Depth
	1 <sup>st</sup> Filter	2 <sup>nd</sup> Filter	1 <sup>st</sup> Filter	2 <sup>nd</sup> Filter	(each bank)
Bottom	2 in	2 in	MERV 8	MERV 13	(2) 25.38 x 21.88

Primary Hydronic Coil					
Physical					
Fins per Inch	Rows	Casing Material	Face Area ft <sup>2</sup>	Face Velocity ft/min	
16	4	Stainless Steel	6.0	364.6	
Connection					
Size	Type		Location		
1.38	F-SWT		Right Hand		
Drain Pan					
Material		Connection			
Stainless Steel		0.75 in			
Performance					
Capacity		Air Temperature			
Total Btu/hr	Sensible Btu/hr	Entering		Leaving	
		Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F
51488	46942	72.0	60.0	52.0	51.5

Fluid				
Type	Entering Temperature °F	Leaving Temperature °F	Flow Rate gpm	Pressure Drop ft H <sub>2</sub> O
Water	42.0	57.1	6.8	2.91

**Secondary Hydronic Coil**

Physical				
Fins per Inch	Rows	Casing Material	Face Area ft <sup>2</sup>	Face Velocity ft/min
12	1	Stainless Steel	6.0	364.6
Connection				
Size	Type	Location		
0.62	F-SWT	Right Hand		
Performance				
Total Btu/hr	Air Temperature			
	Dry Bulb °F			Dry Bulb °F
59052	60.0			85.2
Fluid				
Type	Entering Temperature °F	Leaving Temperature °F	Flow Rate gpm	Pressure Drop ft H <sub>2</sub> O
Water	130.0	110.0	6.0	4.49

**Supply Fan**

Performance							
Airflow	Total Static Pressure	Fan Speed	Controller Input Signal	Brake Horsepower	Total Input Power	Fan Energy Index	Altitude
2200.00 CFM	3.32 inH <sub>2</sub> O	2550 rpm	7.7 VDC	1.65 HP	1.86 HP	1.590	705 ft
Motor							
Type	Horsepower	Motor Control			FLA		
Premium Efficiency	4.42 Hp	0-10V Modulating			5.6 A		

**Unit Discharge Conditions**

Air Temperature			
Motor Heat Btu/hr	Unit Leaving Dry Bulb °F	Unit Leaving Wet Bulb °F	Unit Leaving Dewpoint °F
4972	54.1	52.2	50.7

**Internal Pressure Drop Calculation**

External Static Pressure:	1.00 inH <sub>2</sub> O
Filter:	0.11 inH <sub>2</sub> O
Second Filter:	0.25 inH <sub>2</sub> O
Dirty Filter:	1.50 inH <sub>2</sub> O
Chilled Water Coil:	0.38 inH <sub>2</sub> O
Hot Water Heat:	0.07 inH <sub>2</sub> O
<b>Total Static Pressure:</b>	<b>3.32 inH<sub>2</sub>O</b>

**Options**

Controls	
Overflow Switch:	Factory mounted Overflow Switch

**Warranty**

Parts: Standard warranty

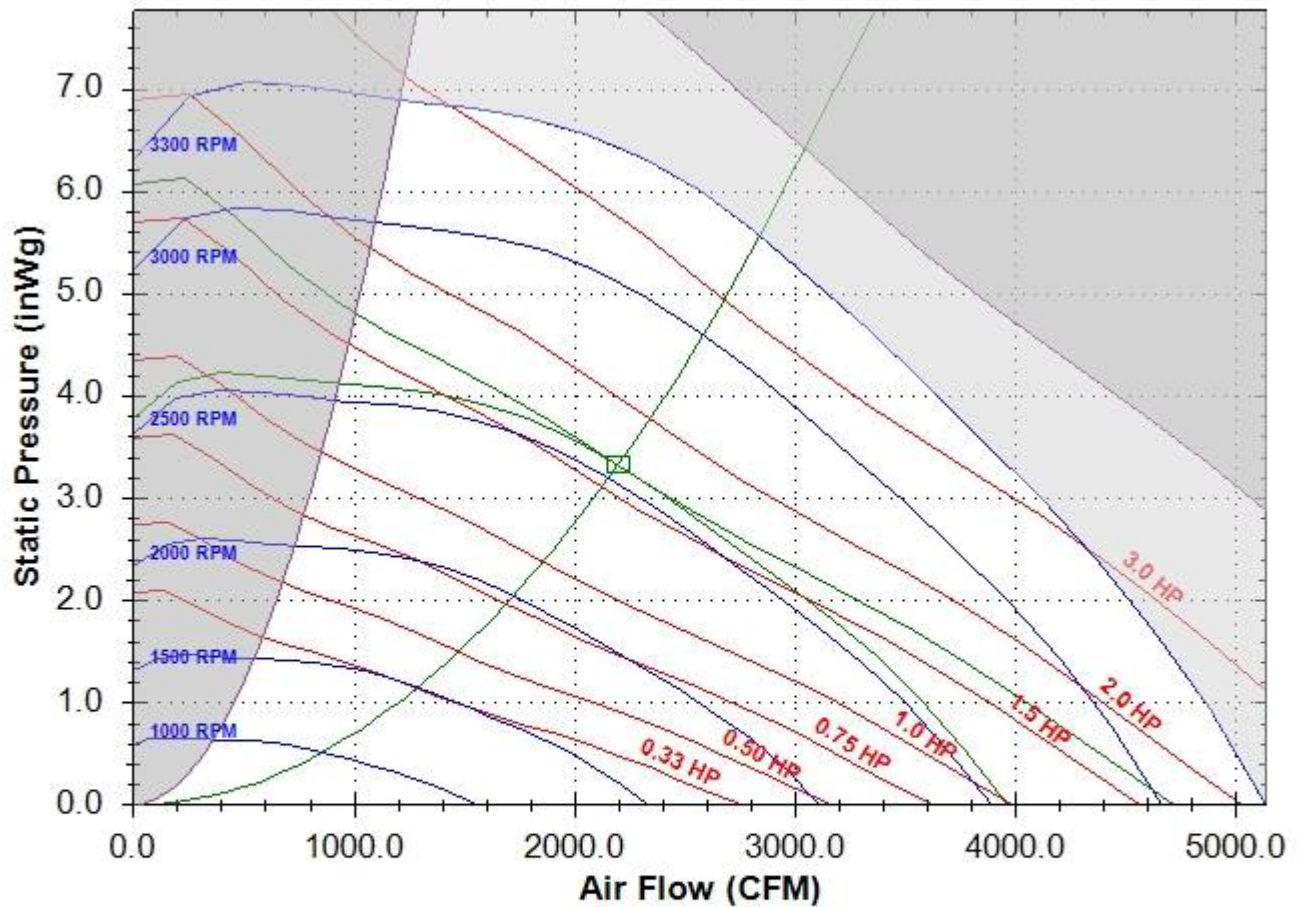
**AHRI Certification**

All equipment is rated and certified in accordance with AHRI 430.

**Notes****Accessories**

		Optional
Part Number		Description
910233089		Kit, Isolator Vibration (Qty = 4)

### Daikin Air Handler Packaged Fan Selection



355.0 SWSI\_AF Supply Fan at 705 ft Altitude

Base Tag	FCU-4941D	Date	Mar-02-2023
Job Name	ELI LILLY	Time	8:02 AM
Air Volume	2200 CFM	Fan Speed	2550 RPM
Total Static	3.32 inWg	Max Speed	3300 RPM
Brake Horsepower	1.65 HP	Efficiency	69.5 %



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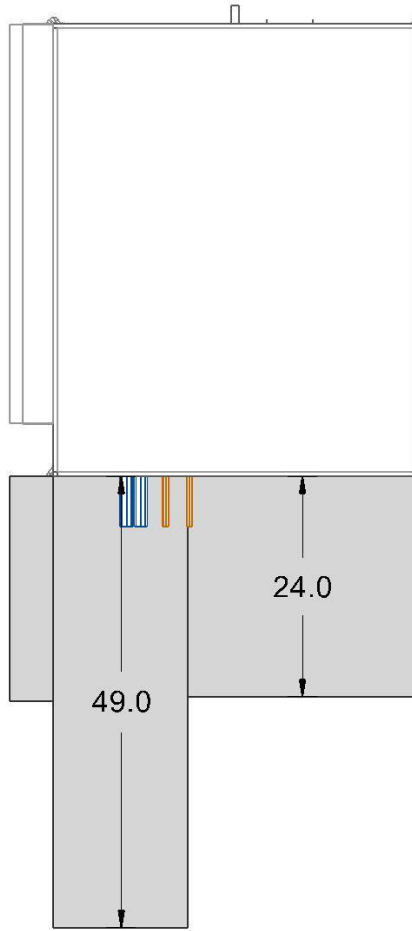
ELI LILLY

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FCU-4941D

Drawings(Clearance View)



PLAN VIEW - SERVICE CLEARANCE

<b>Clearance View</b>	Unit Tag: FCU-4941D			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

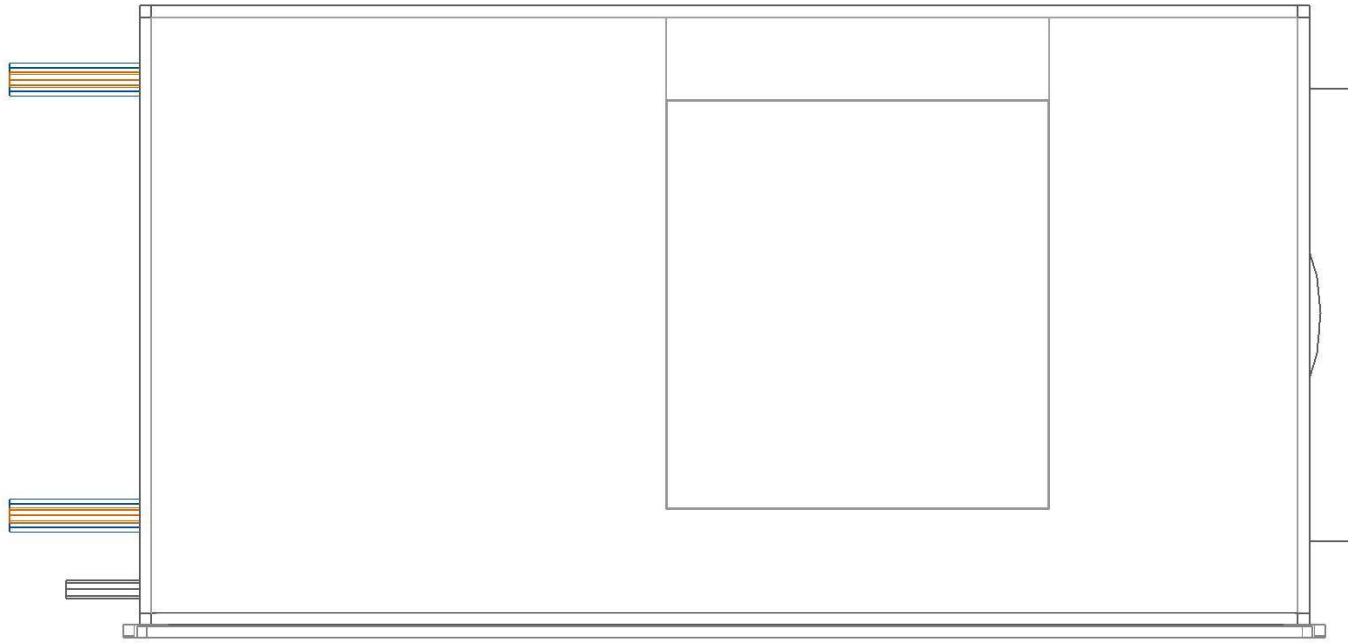
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

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ELI LILLY

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FCU-4941D

Drawings(Discharge View)

### DISCHARGE VIEW

<b>Discharge View</b>	Unit Tag: FCU-4941D	Sales Office: Hoffman & Hoffman, Inc.					 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY	Sales Engineer:					
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

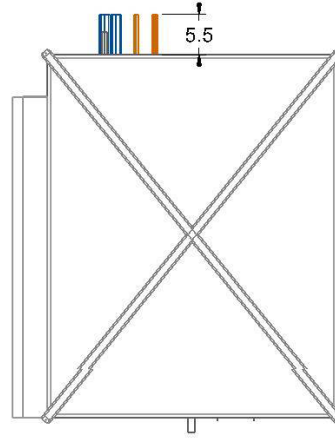
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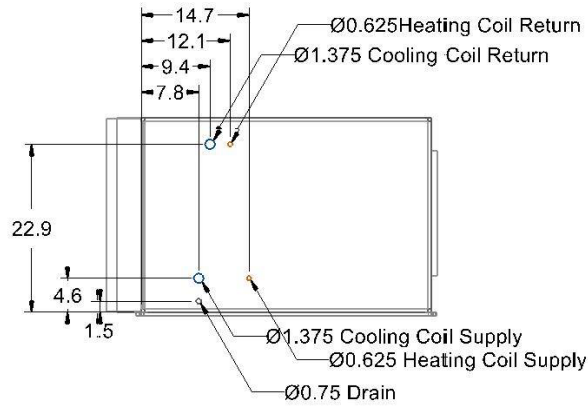
ELI LILLY

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**BOTTOM VIEW**



**BACK VIEW**

FCU-4941D

Drawings(Front Bottom)

<b>Front Bottom</b>	Unit Tag: FCU-4941D	Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 05.60		
Product: PreciseLine® Air Handler	Project Name: ELI LILLY	Sales Engineer:					
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS			

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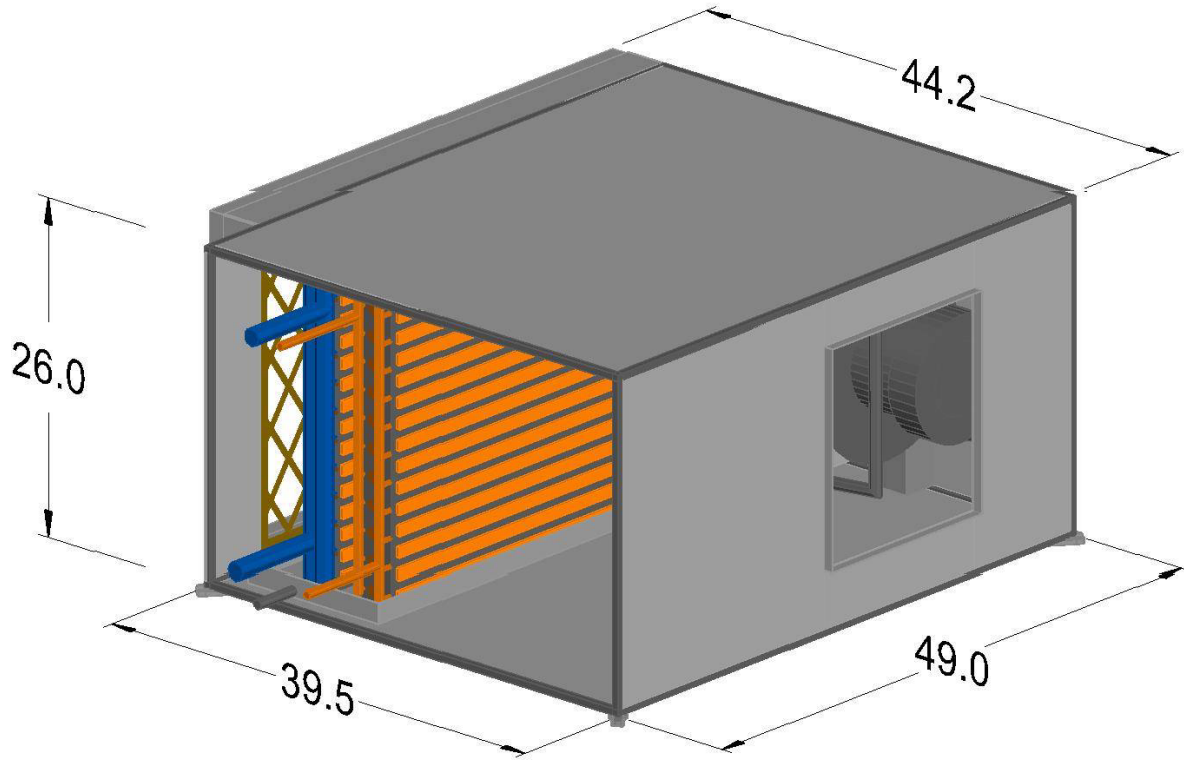
ELI LILLY


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FCU-4941D

Drawings(Model View)



<b>Model View</b>	Unit Tag: FCU-4941D	Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60		
Product: PreciseLine® Air Handler	Project Name: ELI LILLY	Sales Engineer:					
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS			

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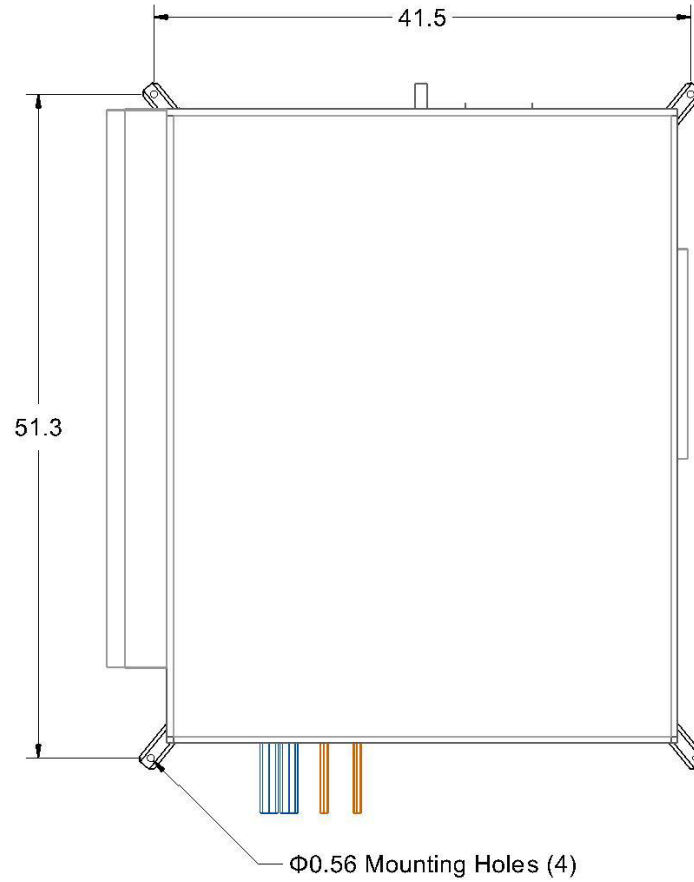
ELI LILLY

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FCU-4941D

Drawings(Mounting View)



PLAN VIEW - MOUNTING

<b>Mounting View</b>	Unit Tag: FCU-4941D			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

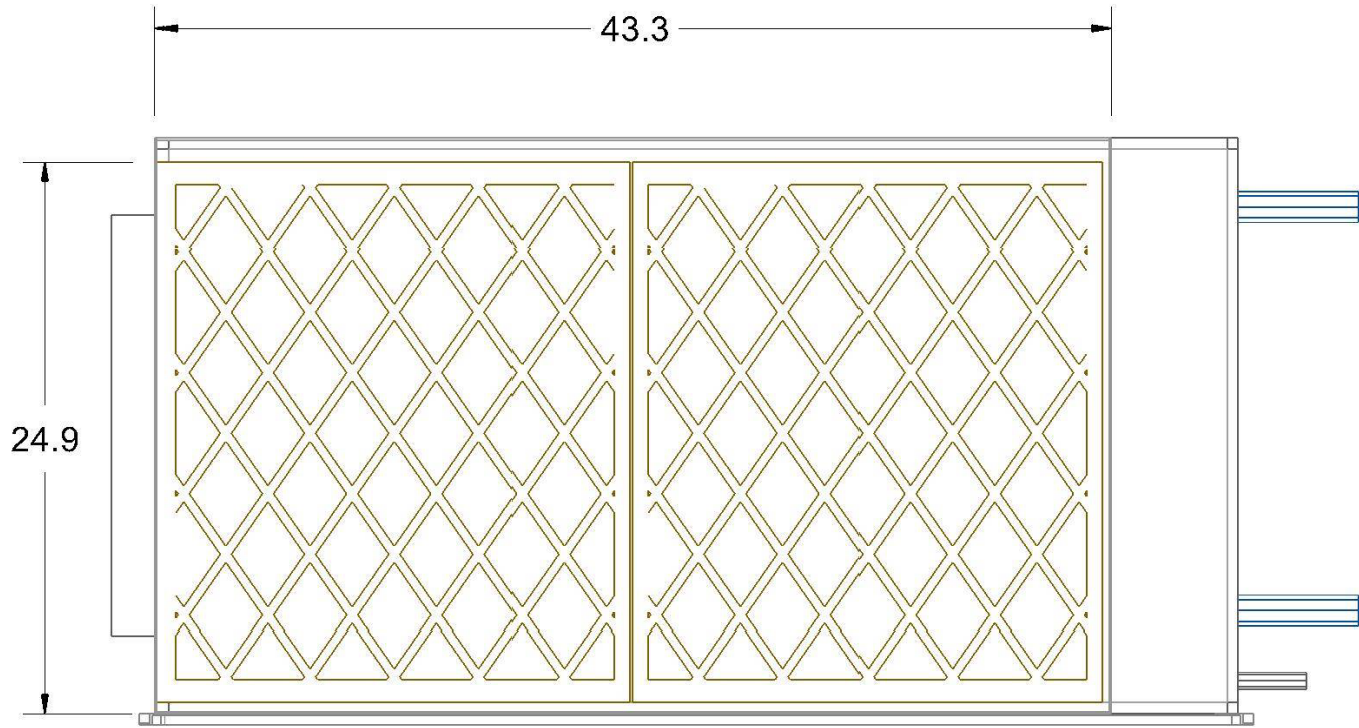
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FCU-4941D

Drawings(Right View)

RIGHT VIEW

<b>Right View</b>	Unit Tag: FCU-4941D			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

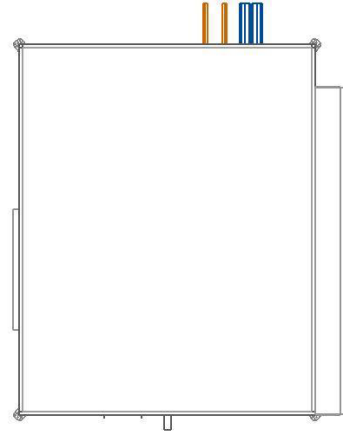
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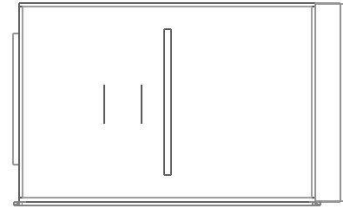
ELI LILLY

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TOP VIEW



FRONT VIEW

FCU-4941D

Drawings(Top Back)

<b>Top Back</b>		Unit Tag: FCU-4941D		Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler		Project Name: ELI LILLY		Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

Job Information		Technical Data Sheet
Job Name	ELI LILLY	
Date	3/2/2023	
Submitted By	Vijay Periannan	
Software Version	05.60	
Unit Tag	FCU-4941E	



Unit Overview				
Model Number	Voltage V/Hz/Phase	Airflow CFM	External Static Pressure inH <sub>2</sub> O	Design Cooling Capacity Btu/hr
BCHE0301	460/60/3	2200	1.00	51488

Unit	
Model Number:	BCHE0301
Unit Arrangement:	Horizontal
Altitude:	705 ft

Physical			
Dimensions and Weight (wet)			
Length	Height	Width	Weight
40 in	26.0 in	49.0 in	567 lb
Construction			
Insulation and Liners:	1" Injected Foam, R-6, Galvanized Steel Liner		

Electrical			
Field Connection	M CA	M ROPD	SCCR
Toggle Disconnect Switch	7.0	15	5 kA

Filter					
Filter Access	Filter Depth		MERV Rating		(Quantity) Height x Width x Depth (each bank)
	1 <sup>st</sup> Filter	2 <sup>nd</sup> Filter	1 <sup>st</sup> Filter	2 <sup>nd</sup> Filter	
Bottom	2 in	2 in	MERV 8	MERV 13	(2) 25.38 x 21.88

Primary Hydronic Coil					
Physical					
Fins per Inch	Rows	Casing Material	Face Area ft <sup>2</sup>	Face Velocity ft/min	
16	4	Stainless Steel	6.0	364.6	
Connection					
Size	Type		Location		
1.38	F-SWT		Left Hand		
Drain Pan					
Material		Connection			
Stainless Steel		0.75 in			
Performance					
Capacity		Air Temperature			
Total Btu/hr	Sensible Btu/hr	Entering		Leaving	
		Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F
51488	46942	72.0	60.0	52.0	51.5

Fluid				
Type	Entering Temperature °F	Leaving Temperature °F	Flow Rate gpm	Pressure Drop ft H <sub>2</sub> O
Water	42.0	57.1	6.8	2.91

**Secondary Hydronic Coil**

Physical				
Fins per Inch	Rows	Casing Material	Face Area ft <sup>2</sup>	Face Velocity ft/min
12	1	Stainless Steel	6.0	364.6
Connection				
Size	Type	Location		
0.62	F-SWT	Left Hand		
Performance				
Total Btu/hr	Air Temperature			
	Dry Bulb °F			Dry Bulb °F
59052	60.0			85.2
Fluid				
Type	Entering Temperature °F	Leaving Temperature °F	Flow Rate gpm	Pressure Drop ft H <sub>2</sub> O
Water	130.0	110.0	6.0	4.49

**Supply Fan**

Performance							
Airflow	Total Static Pressure	Fan Speed	Controller Input Signal	Brake Horsepower	Total Input Power	Fan Energy Index	Altitude
2200.00 CFM	3.32 inH <sub>2</sub> O	2550 rpm	7.7 VDC	1.65 HP	1.86 HP	1.590	705 ft
Motor							
Type	Horsepower	Motor Control			FLA		
Premium Efficiency	4.42 Hp	0-10V Modulating			5.6 A		

**Unit Discharge Conditions**

Air Temperature			
Motor Heat Btu/hr	Unit Leaving Dry Bulb °F	Unit Leaving Wet Bulb °F	Unit Leaving Dewpoint °F
4972	54.1	52.2	50.7

**Internal Pressure Drop Calculation**

External Static Pressure:	1.00 inH <sub>2</sub> O
Filter:	0.11 inH <sub>2</sub> O
Second Filter:	0.25 inH <sub>2</sub> O
Dirty Filter:	1.50 inH <sub>2</sub> O
Chilled Water Coil:	0.38 inH <sub>2</sub> O
Hot Water Heat:	0.07 inH <sub>2</sub> O
<b>Total Static Pressure:</b>	<b>3.32 inH<sub>2</sub>O</b>

**Options**

Controls	
Overflow Switch:	Factory mounted Overflow Switch

**Warranty**

Parts: Standard warranty

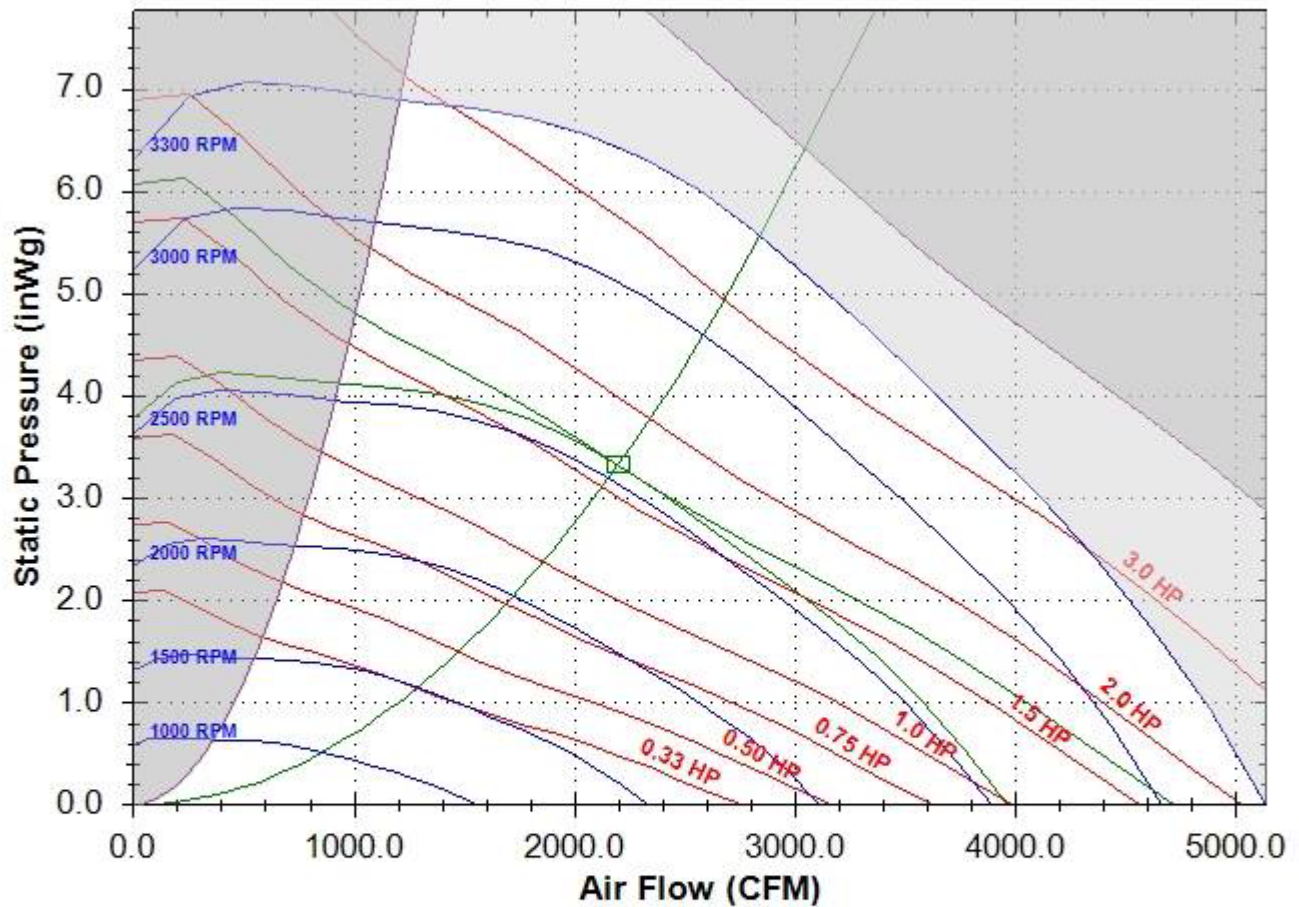
**AHRI Certification**

All equipment is rated and certified in accordance with AHRI 430.

**Notes****Accessories**

		Optional
Part Number		Description
910233089		Kit, Isolator Vibration (Qty = 4)

### Daikin Air Handler Packaged Fan Selection



355.0 SWSI\_AF Supply Fan at 705 ft Altitude

Base Tag	FCU-4941E	Date	Mar-02-2023
Job Name	ELI LILLY	Time	8:02 AM
Air Volume	2200 CFM	Fan Speed	2550 RPM
Total Static	3.32 inWg	Max Speed	3300 RPM
Brake Horsepower	1.65 HP	Efficiency	69.5 %

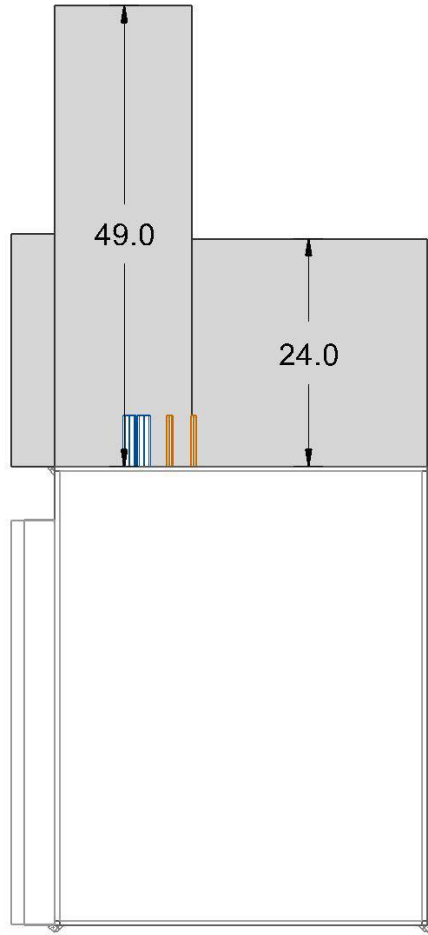


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PLAN VIEW - SERVICE CLEARANCE

FCU-4941E

Drawings(Clearance View)

<b>Clearance View</b>	Unit Tag: FCU-4941E			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

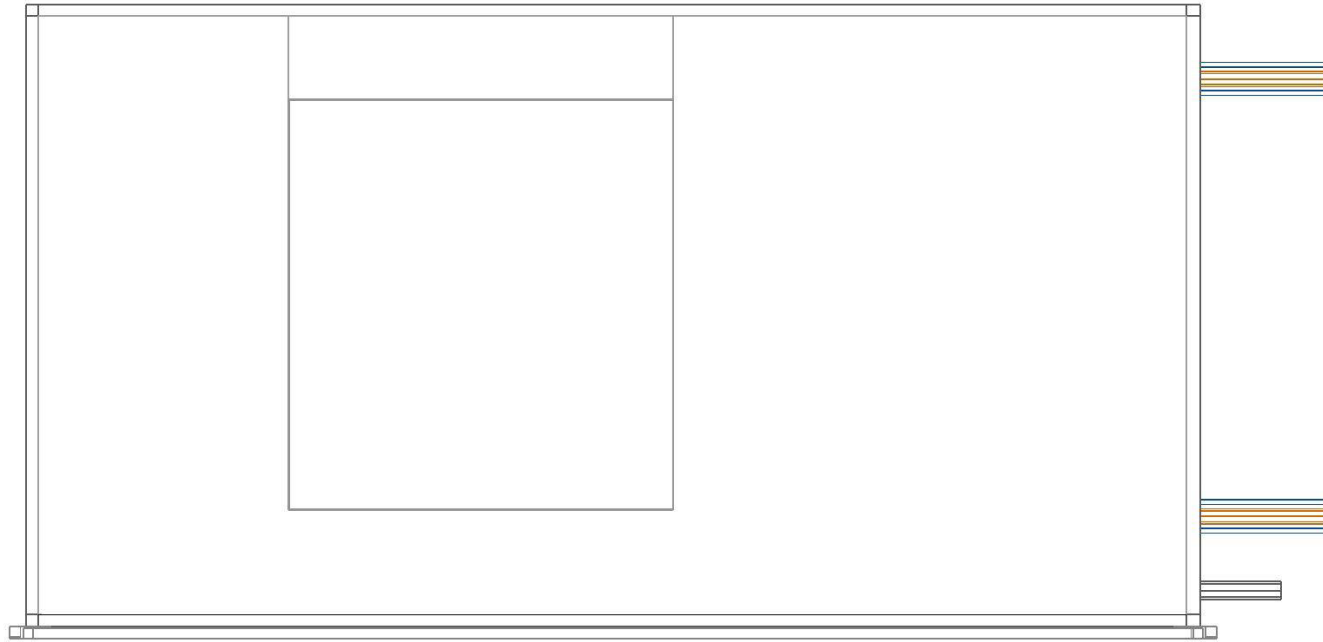
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FCU-4941E

Drawings(Discharge View)

### DISCHARGE VIEW

<b>Discharge View</b>		Unit Tag: FCU-4941E			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler		Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301		Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

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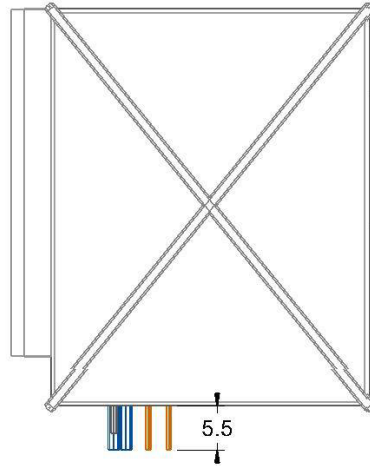
ELI LILLY

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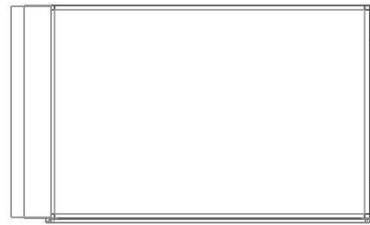
3/2/2023

FCU-4941E


Drawings(Front Bottom)



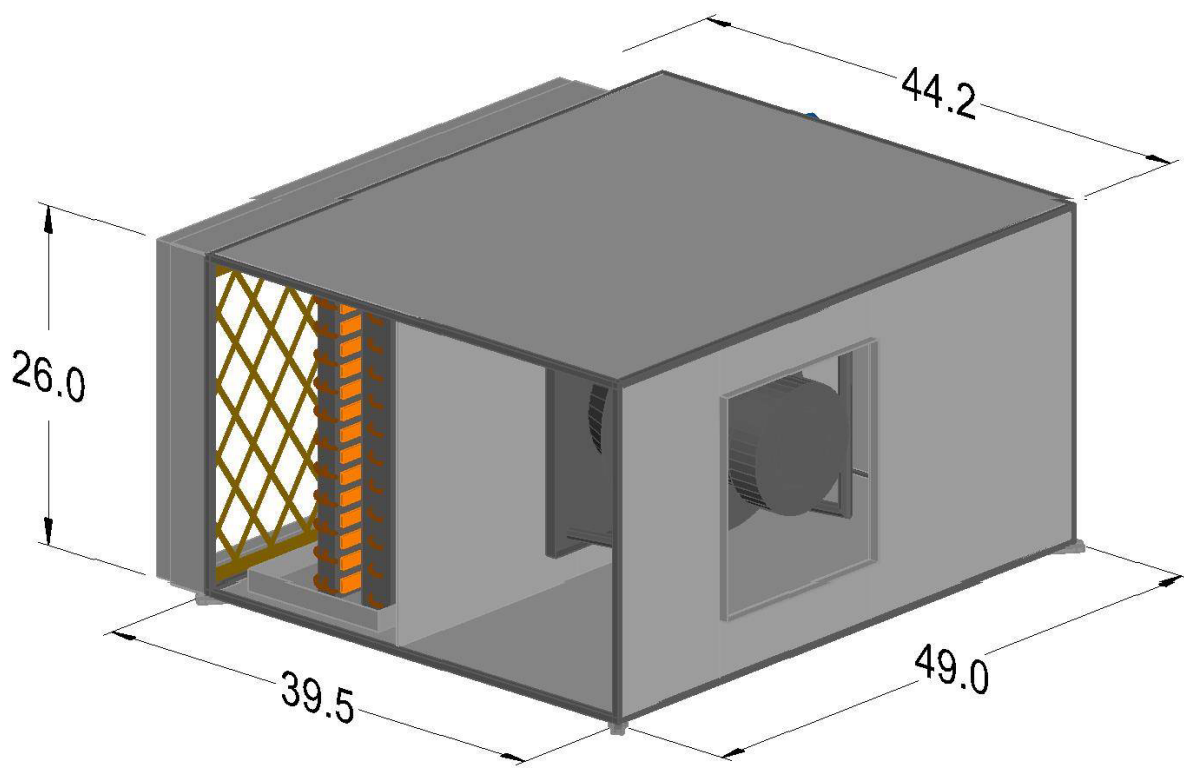
BOTTOM VIEW



BACK VIEW

<b>Front Bottom</b>		Unit Tag: FCU-4941E		Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 05.60
Product: PreciseLine® Air Handler		Project Name: ELI LILLY		Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

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FCU-4941E

Drawings(Model View)

<b>Model View</b>	Unit Tag: FCU-4941E			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

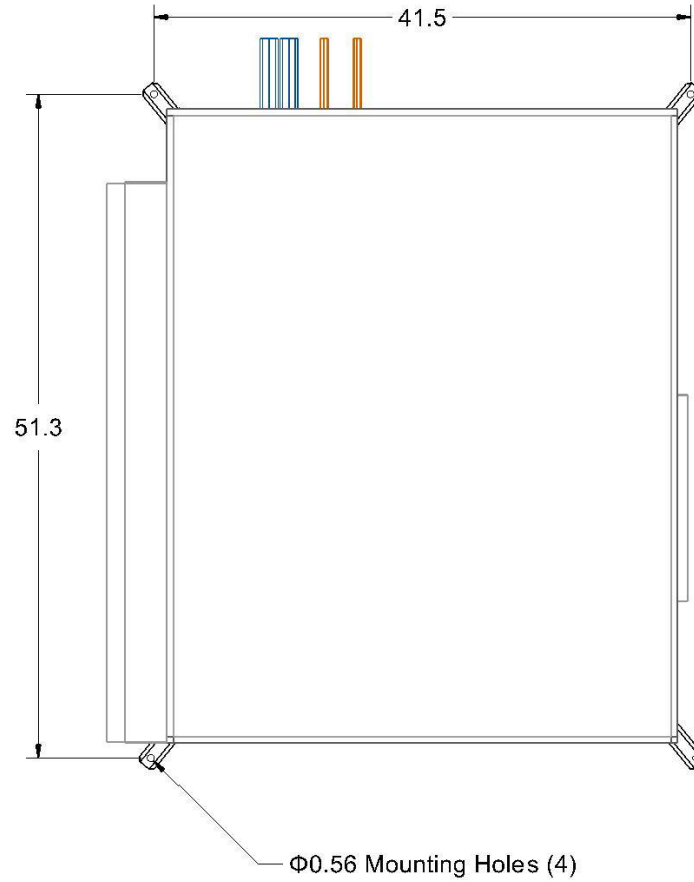
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PLAN VIEW - MOUNTING

FCU-4941E

Drawings(Mounting View)

<b>Mounting View</b>	Unit Tag: FCU-4941E		Sales Office: Hoffman & Hoffman, Inc.				 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY		Sales Engineer:				
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

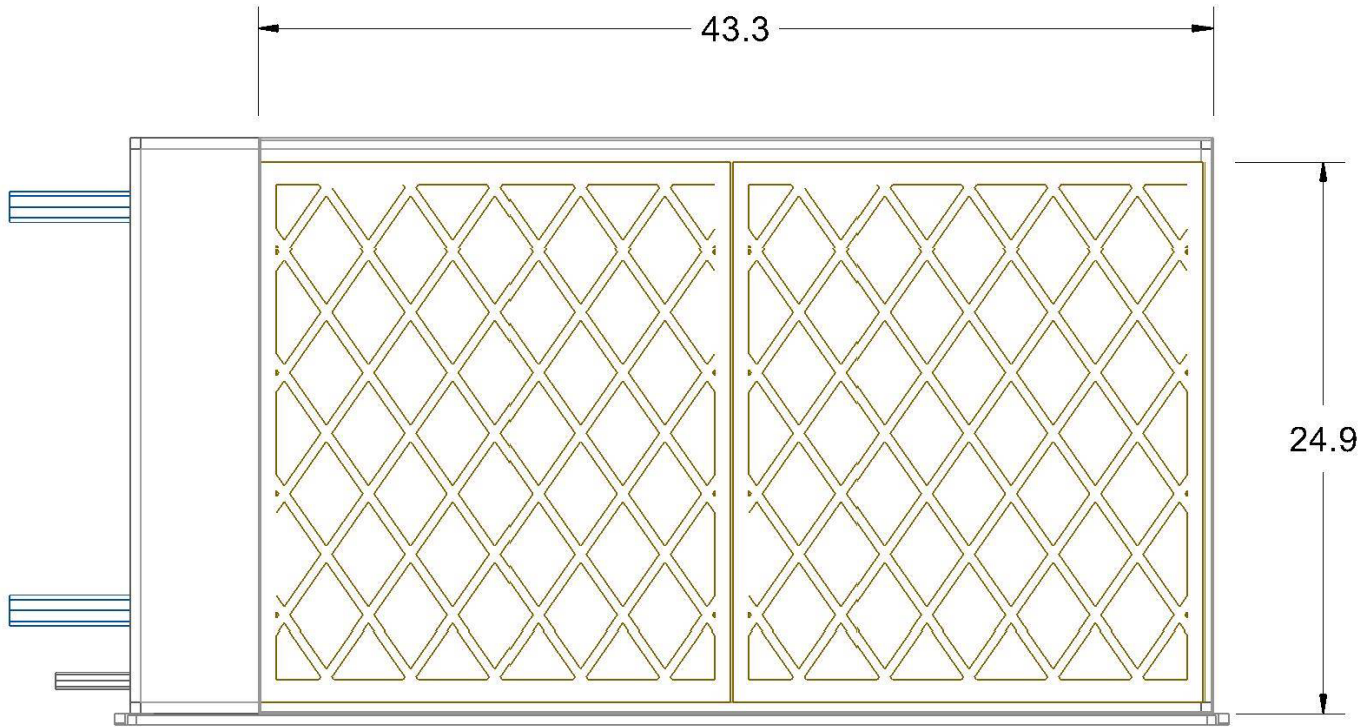
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RIGHT VIEW

FCU-4941E

Drawings(Right View)

<b>Right View</b>	Unit Tag: FCU-4941E			Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 05.60
Product: PreciseLine® Air Handler	Project Name: ELI LILLY			Sales Engineer:			
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

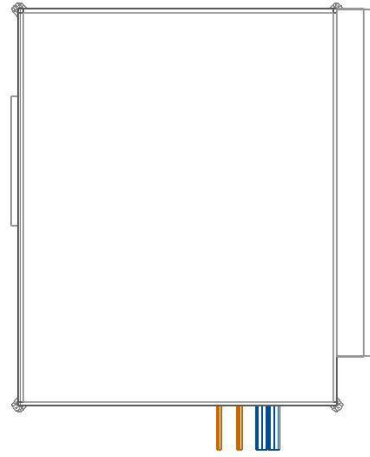
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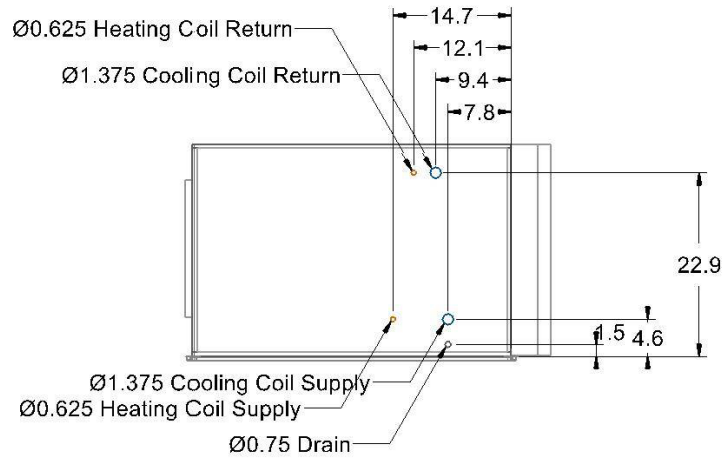
ELI LILLY

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TOP VIEW



FRONT VIEW

FCU-4941E

Drawings(Top Back)

<b>Top Back</b>	Unit Tag: FCU-4941E	Sales Office: Hoffman & Hoffman, Inc.			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 05.60		
Product: PreciseLine® Air Handler	Project Name: ELI LILLY	Sales Engineer:					
Model: BCHE0301	Mar. 02, 2023	Ver/Rev:	Sheet: 1 of 1	Scale: NTS			

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