



SUBMITTAL DATA

Job Name Eli Lilly B10 Bypass Room Fan Filter Unit

For Messer Construction

SHOP DRAWING REVIEW ACTION		
✓	No Exceptions Taken	Amend & Resubmit
	Make Corrections Noted (No Resubmission Required)	Rejection - Resubmit

Engineer's Review is for general conformance with the design concept and contract documents. Markings or comments shall not be constructed as relieving the Contractor from compliance with the project plans and specifications, nor departures therefrom. The Contractor remains responsible for details and accuracy, for confirming and correlating all quantities and dimensions, for selecting fabrication processes, for techniques of assembly, and for performing his work in a safe manner.

MUSSETT, NICHOLAS & ASSOCIATES, Inc.
Engineers + Architects

By Andrew Wagang _____ Date 06-16-2023 _____

Prepared By Evan Nutt **MNA: UNIT WILL BE INSTALLED ON CONCRETE PAD.**

Date 5/23/23

- Exclusions:
- Temperature controls
 - Heating/Cooling specialties
 - Seismic certifications
 - Equipment supports/isolation/restraints/hangars
 - Mixing boxes
 - Painting of cabinetry
 - Return air/Discharge air plenums/grilles

- Includes:
- Factory startup (as applicable)
 - 1 Year parts & labor warranty
 - FOB Jobsite
- Clarifications:
- 1" Double wall foam injected panels
 - Ignore hydronic/drain images in drawings

Job Information		Technical Data Sheet	
Job Name	Eli Lilly Concord Filtration Unit		
Date	5/23/2023		
Submitted By	Evan Nutt		
Software Version	05.80		
Unit Tag	Filtration Unit		



Unit Overview				
Model Number	Voltage V/Hz/Phase	Airflow CFM	External Static Pressure inH ₂ O	
BCHD0101	115/60/1	1000	2.00	

Unit	
Model Number:	BCHD0101
Unit Arrangement:	Horizontal
Altitude:	0 ft

Physical			
Dimensions and Weight (wet)			
Length	Height	Width	Weight
46 in	18.0 in	37.0 in	343 lb
Construction			
Insulation and Liners:	1" Injected Foam, R-6, Galvanized Steel Liner		

Electrical			
Field Connection	MCA	MROPD	SCCR
Toggle Disconnect Switch	14.3	25	5 kA

Filter					
Filter Access	Filter Depth		MERV Rating		(Quantity) Height x Width x Depth
	1 st Filter	2 nd Filter	1 st Filter	2 nd Filter	(each bank)
Side	2 in	2 in	MERV 8	MERV 13	(2) 17.69 x 13.75

Supply Fan							
Performance							
Airflow	Total Static Pressure	Fan Speed	Controller Input Signal	Brake Horsepower	Total Input Power	Fan Energy Index	Altitude
1000	3.49 inH ₂ O	2002 rpm	10.0 VDC	0.97 HP	1.15 HP	1.423	0 ft
Motor							
Type	Horsepower	Motor Control			FLA		
Direct Current Brushless	1 Hp	0-10V Modulating			11.5 A		

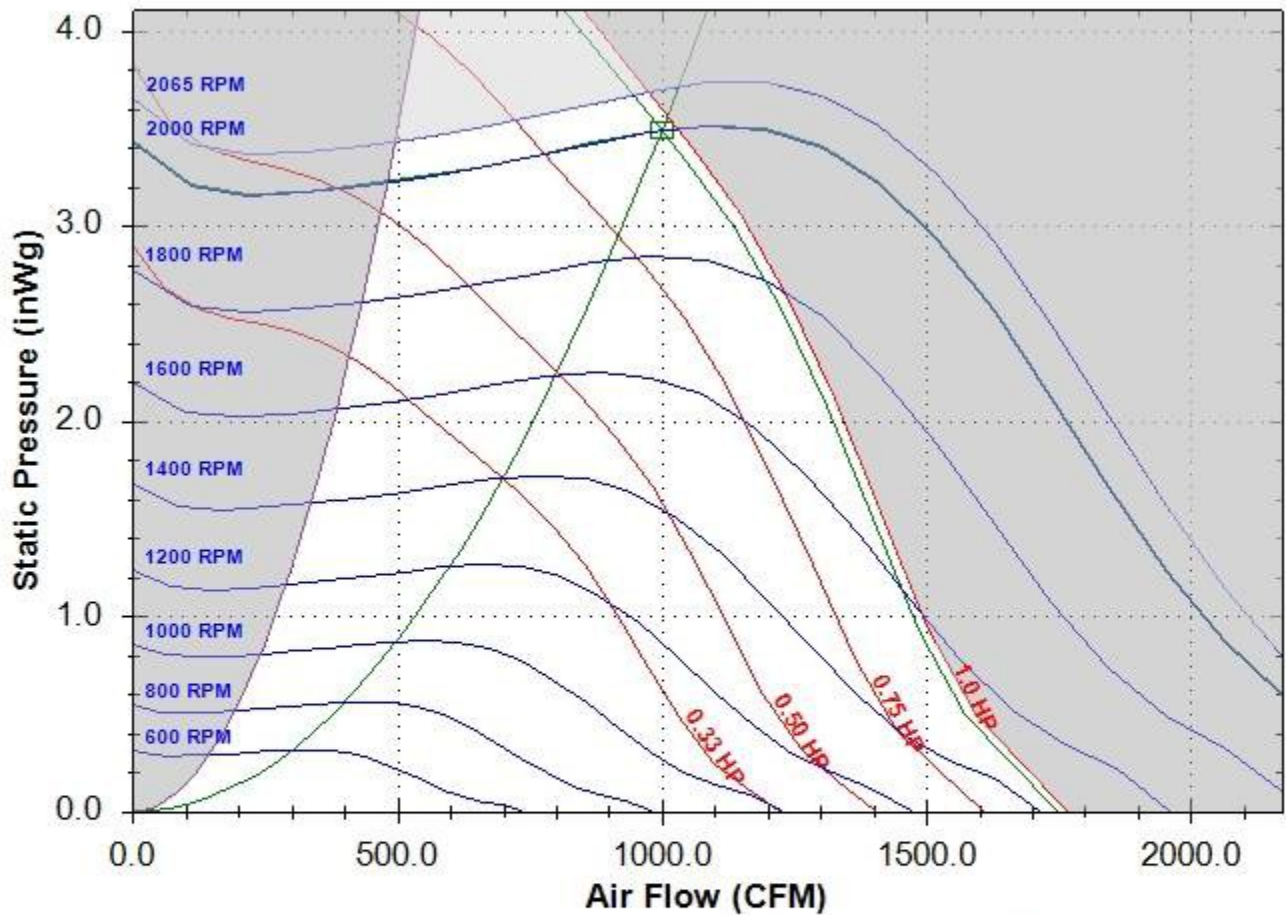
Internal Pressure Drop Calculation	
External Static Pressure:	2.00 inH ₂ O
Filter:	0.26 inH ₂ O
Second Filter:	0.47 inH ₂ O
Dirty Filter:	0.76 inH ₂ O
Total Static Pressure:	3.49 inH ₂ O

Sound Power								
	Sound Power (db)							
Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	81	82	72	68	66	60	55	46
Discharge	93	91	82	78	77	76	74	70
Radiated	69	69	58	52	53	53	35	29

Warranty	
Parts:	Standard warranty

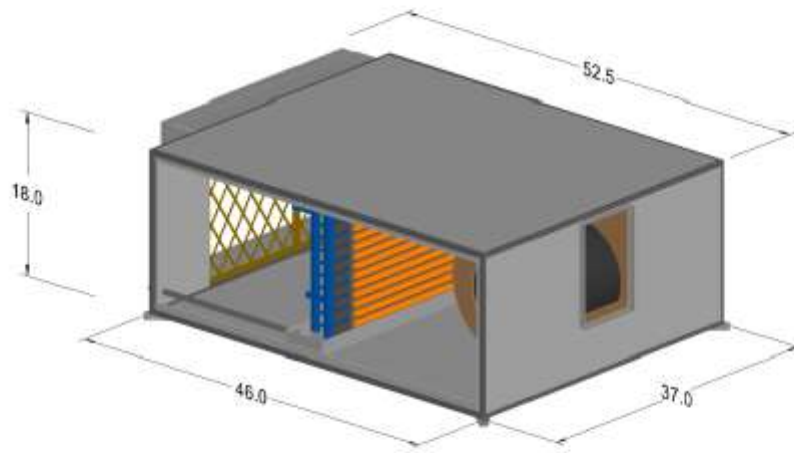
MNA: PLEASE RESELECT FAN TO MOVE OPERATING POINT TO THE RIGHT. THIS MIGHT MEAN A SMALLER FAN. FEEL FREE TO REACH OUT TO MNA DIRECTLY TO DISCUSS THE FAN OPTIONS.


Daikin Air Handler Packaged Fan Selection



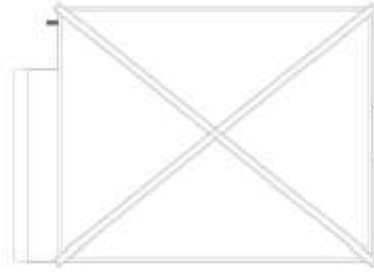
10.0 DWDI - Forward Curved Supply Fan at Standard Conditions			
Base Tag	Filtration Unit	Date	May-23-2023
Job Name	Eli Lilly Concord Filtration Unit	Time	8:08 AM
Air Volume	1000 CFM	Fan Speed	2002 RPM
Total Static	3.49 inWg	Max Speed	2065 RPM
Brake Horsepower	0.97 HP	Efficiency	56.7 %





	Unit Tag: Filtration Unit			Sales Office: Daikin Applied Plymouth			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 05.80
Product: PreciseLine® Air Handler	Project Name: Eli Lilly Concord			Sales Engineer:			
Model: BCHD0101	May 18, 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.



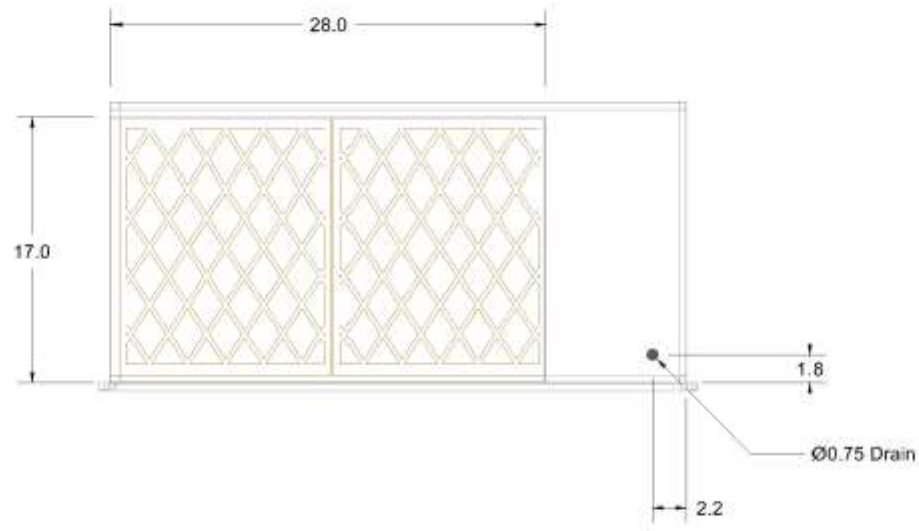
BOTTOM VIEW




BACK VIEW

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Product: PreciseLine® Air Handler	Project Name: Eli Lilly Concord			Sales Engineer:			
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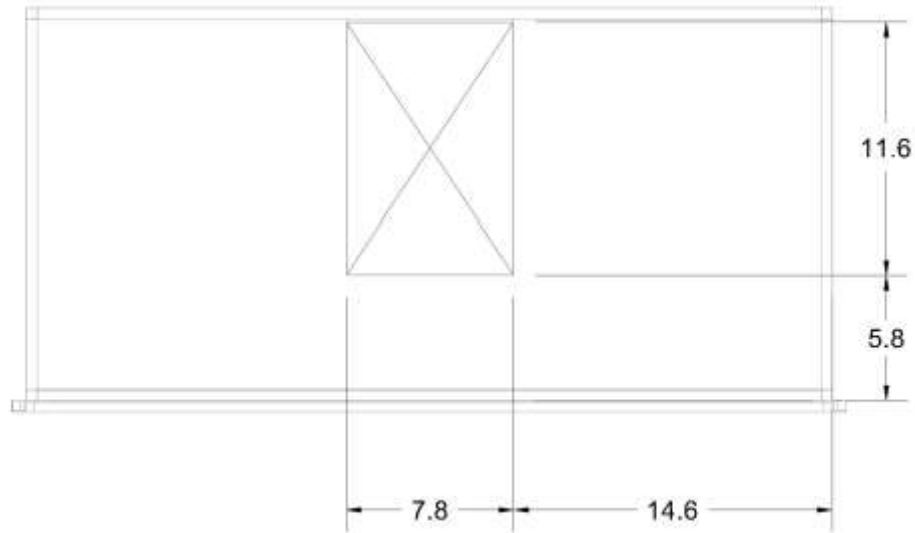
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RIGHT VIEW

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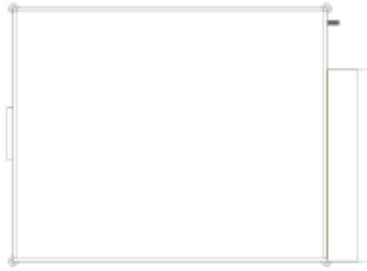
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DISCHARGE VIEW

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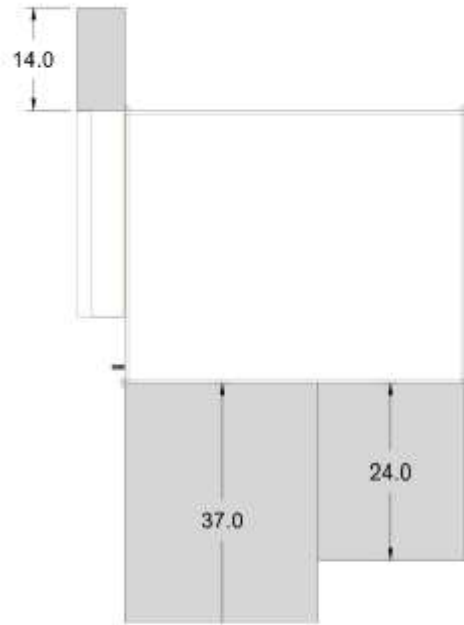


TOP VIEW

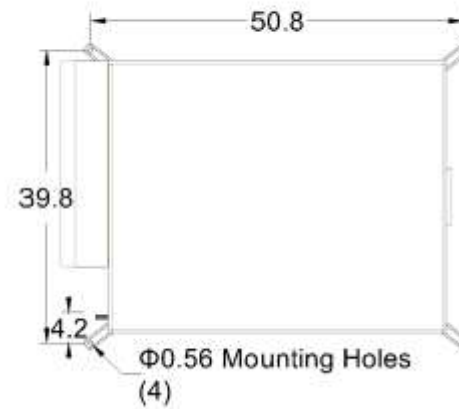


FRONT VIEW


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Plan View - Service Clearance



Plan View - Mounting

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