

Report By:

National TAB
1329 E. KEMPER ROAD
SUITE 4210
CINCINNATI, OH 45246



Report: TAB Report
Function: Test, Adjust, & Balance
Date: 03/27/2025
Completed By: National TAB

PROJECT
Blue Halo Clean Room (Dayton, OH)

4401 Dayton Xenia Rd

Dayton , OH 45432

Client

Jim Verlander

National TAB

Project: Blue Halo Clean Room (Dayton, OH)

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National TAB

Project: Blue Halo Clean Room (Dayton, OH)

System/Unit: AHU/RTU



Asset: AHU-1

AREA:ROOF

Unit Data		
	Design	Actual
MFG	NA	ACIQ
Serial Num	-	F243445193
Model Num	NA	FJMA4X36L0BB
Type	-	AHU
Configuration	-	VERTICAL
Num Final Filter 1	-	1
Final Filter Size 1	-	16"X20"X1"

Test Data		
	Design	Actual
SF CFM	1200	1249
RA CFM	1200	1016
OA CFM	165	233
RL Voltage	-	209.4
RL Amperage	-	3.98
SF System SetPt	-	HIGH
Brake Horse Power	-	0.47

Motor Data		
	Design	Actual
Motor MFG	-	BROAD-OCEAN
Horsepower	0.5	0.5
Phase	1	1
Rated Voltage	208	208
Rated Amperage	-	4.2

Performance Data		
	Design	Actual
MA Plenum SP	-	0.13"
Fan Suction SP	-	-0.98"
Fan Discharge SP	-	0.39"
Total ESP	-	1.11"
Fan Total SP	-	1.37"

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AHU/RTU



Diffuser Supply (GRD)

AHU-1/ROOF

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
AHU-1-SGRD1	MAIN AREA	SD	10	300	302	327	109.0
AHU-1-SGRD2	MAIN AREA	SD	10	300	291	329	109.7
AHU-1-SGRD3	MAIN AREA	SD	10	300	311	309	103.0
AHU-1-SGRD4	MAIN AREA	SD	10	300	217	284	94.7
Total				1200	1121	1249	104.08%

Diffuser Ret/Exh (GRD)

AHU-1/ROOF

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
AHU-1-EGRD1	RG	12X8	400	1	156	156	156	39.0
AHU-1-EGRD2	RG	18x8	800	1	860	860	860	107.5
Total			1200		1016	1016	1016	84.67%

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Project: Blue Halo Clean Room (Dayton, OH)

System/Unit: FAN - Exhaust



Asset: EF-1

AREA:ROOF

Unit Data		
	Design	Actual
MFG	NA	COOK
Model Num	NA	90C17DL-VF-90-ACEL
Serial Num	-	108PL44341-00/0000/01
Type	-	DOWNBLAST

Test Data		
	Design	Actual
CFM	200	209
RL Voltage	-	121.5
RL Amperage	-	0.47
Discharge ESP	-	ATM
Total ESP	-	0.12"

Motor Data		
	Design	Actual
Motor MFG	-	JAKEL
Motor Rpm	1113	1800
Phase	1	1
Voltage (rated)	208	115
Amperage (rated)	-	1.1

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Project: Blue Halo Clean Room (Dayton, OH)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF-1/ROOF

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EF-1-EGRD1	RG	10X6	200					-
Total			200		0	0	0	0%

Issue List

- OA Above Design
- Return Air Below Design



Blue Halo Clean Room (Dayton, OH)

Project Issue Information

Issue Name : OA Above Design
Description : OA above design, intake not equipped with damper.
Created By : National TAB **Assigned To :** National TAB - Jordan Best
Status : Open
Priority : Medium **Asset Tag :**
Originated Date : 03/27/2025 - Jordan Best - National TAB

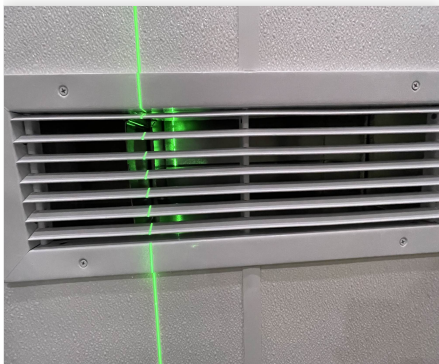


Blue Halo Clean Room (Dayton, OH)

Project Issue Information

Issue Name : Return Air Below Design
Description : Return air is below design. Suspect it is due to the internal duct not covering the full face of the supply grille.
Created By : National TAB **Assigned To :** National TAB - Jordan Best
Status : Open
Priority : **Medium** **Asset Tag :**
Originated Date : 03/27/2025 - Jordan Best - National TAB

Project Issue File Details



03/27/2025