

Report By:

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



Report: Prelim Report
Function: Test, Adjust, & Balance
Date: 01/29/2025
Completed By: National TAB

PROJECT
Fords Garage (Florence, KY)

4911 Houston Road

Florence, KY 41042

Client

Champion Commercial HVAC
2638 Tem Mile Rd.

Melbourne, KY 41059

National TAB

Project: Fords Garage (Florence, KY)

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National TAB

Project: Fords Garage (Florence, KY)
System/Unit: AHU/RTU



Asset: RTU-3

AREA:

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	4824P01411
Model Num	NA	48FCEM16A3A5-0A0A0
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	24"X27"
Num PreFilter 1	-	6
PreFilter Size 1	-	18"X24"

Test Data		
	Design	Actual
SF CFM	6000	5544
RA CFM	4500	4040
OA CFM	1500	1504
RL Voltage	208	212.4/211.9/212.6
RL Amperage	12.6	13.44/13.06/11.59 (12.6)
OA Damper Position	-	4.9 VDC

Motor Data		
	Design	Actual
Motor MFG	-	ECO BLUE
Motor Rpm	-	1878
Phase	3	3
Rated Voltage	208	208
Rated Amperage	12.6	12.6

Performance Data		
	Design	Actual
MA Plenum SP	-	-1.6"
Fan Suction SP	-	-1.8"
Fan Discharge SP	-	1.22"
Total ESP	1.25	2.82"
Fan Total SP	-	3.02"

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Project: Fords Garage (Florence, KY)



Diffuser Supply (GRD)

RTU-3/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	KITCHEN	F	12	480	341	436	90.8
SGRD2	KITCHEN	F	12	480	470	501	104.4
SGRD3	KITCHEN	A	6	75	40	46	61.3
SGRD4	KITCHEN	F	12	480	499	509	106.0
SGRD5	KITCHEN	F	12	480	491	502	104.6
SGRD6	KITCHEN	F	12	480	581	440	91.7
SGRD7	KITCHEN	F	12	480	324	336	70.0
SGRD8	KITCHEN	B	8	125	259	284	227.2
SGRD9	KITCHEN	F	12	480	544	439	91.5
SGRD10	KITCHEN	F	12	485	277	336	69.3
SGRD11	KITCHEN	F	12	490	329	341	69.6
SGRD12	KITCHEN	F	12	490	238	442	90.2
SGRD13	KITCHEN	F	12	490	444	487	99.4
SGRD14	KITCHEN	F	12	485	530	445	91.8
Total				6000	5367	5544	92.4%

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Issue List

- Diffuser 5 Above Design
- Diffusers 10 & 11 Below Design
- OA Min Position Set Point
- Office Diffuser Missing Damper
- Restroom Diffuser Below Design



Fords Garage (Florence, KY)

Project Issue Information

Issue Name : Diffusers 10 & 11 Below Design
Description : Diffusers 10 and 11 are below design with dampers fully open. I attempted to push air from above design diffusers to each. I was able to raise flow by 100+ CFM on each but unable to achieve design flow.
Created By : National TAB **Assigned To :** National TAB - Jordan Best
Status : Open
Priority : High **Asset Tag :**
Originated Date : 01/29/2025 - Jordan Best - National TAB



Fords Garage (Florence, KY)

Project Issue Information

Issue Name : OA Min Position Set Point
Description : I was able to set OA using a temporary set point but cannot program permanent set point without Wi-Fi stick attachment for Siemens Climatix app used in coordination with Siemens controller in unit. If unit loses power, it will default back to a set point of 2 VDC which is fully closed. OA min position set point should be 4.9 VDC.
Created By : National TAB **Assigned To :** National TAB - Jordan Best
Status : Open
Priority : Urgent **Asset Tag :**
Originated Date : 01/29/2025 - Jordan Best - National TAB



Fords Garage (Florence, KY)

Project Issue Information

Issue Name : Office Diffuser Missing Damper
Description : Office diffuser is not equipped with a damper and is above design. This is also causing diffuser 7 to fall below design.
Created By : National TAB **Assigned To :** National TAB - Jordan Best
Status : Open
Priority : High **Asset Tag :**
Originated Date : 01/29/2025 - Jordan Best - National TAB



Fords Garage (Florence, KY)

Project Issue Information

Issue Name : Restroom Diffuser Below Design
Description : Restroom diffuser is below design, damper is fully open.
Created By : National TAB **Assigned To :** National TAB - Jordan Best
Status : Open
Priority : High **Asset Tag :**
Originated Date : 01/29/2025 - Jordan Best - National TAB