

**Report By:**

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



**Report: PRELIMINARY**  
**Function: Test, Adjust, & Balance**  
**Date: 04/17/2025**  
**Completed By: National TAB**

# PROJECT

## Cincinnati Dayton Convenience Store (West Chester, OH)

1 Cincinnati Dayton and Allen rd

West Chester, OH

### Client

Titan Mechanical  
11011 Ohio 128

Harrison, OH 45030

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Project: Cincinnati Dayton Convenience Store (West Chester, OH)

## Table Of Contents

Section	Page #
AHU/RTU	3
FAN - Exhaust	9

# National TAB

Project: Cincinnati Dayton Convenience Store (West Chester, OH)



## System/Unit: AHU/RTU

Asset: RTU-1

AREA:SALES/ CIG STORAGE

Unit Data		
	Design	Actual
MFG	NA	LENNOX
Serial Num	-	5624K01623
Model Num	NA	KGC120S4MM1Y
Configuration	-	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14.25" x 22.75"
Num PreFilter 1	-	4
PreFilter Size 1	-	20x25x2

Motor Data		
	Design	Actual
Motor MFG	-	INTER LINK
Frame	-	56HZ
Horsepower	-	3
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	208	200
Rated Amperage	-	8.0
Service Factor	-	1.15

Test Data		
	Design	Actual
SF CFM	3400	3244
RA CFM	2720	2623
OA CFM	680	621
RL Voltage	-	288
RL Amperage	-	4.97
OA Damper Position	-	3.2

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.119"
Fan Suction SP	-	-0.202"
Fan Discharge SP	-	1.441"
Total ESP	0.6	1.56"
Fan Total SP	-	1.643"

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## AHU/RTU



### Diffuser Supply (GRD)

#### RTU-1/SALES/ CIG STORAGE

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
RTU-1-SGRD1	101	SR	16	485	544	516	106.4
RTU-1-SGRD2	101	SR	12	500	427	530	106.0
RTU-1-SGRD3	101	SR	20	380	412	408	107.4
RTU-1-SGRD4	101	SR	20	380	519	400	105.3
RTU-1-SGRD5	101	SR	18	380	419	442	116.3
RTU-1-SGRD6	101	SR	18	380	558	398	104.7
RTU-1-SGRD7	101	SR	18	380	370	440	115.8
RTU-1-SGRD8	103	SR	12	415	0	0	0.0
RTU-1-SGRD9	103	CD	8	100	185	110	110.0
Total				3400	3434	3244	95.41%

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## System/Unit: AHU/RTU

Asset: RTU-2

AREA:SALES

Unit Data		
	Design	Actual
MFG	NA	Lennox
Serial Num	-	5624K01624
Model Num	NA	KGC120S4MM1Y
Configuration	-	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14.25" x 22.75"
Num PreFilter 1	-	4
PreFilter Size 1	-	20x25x2

Motor Data		
	Design	Actual
Motor MFG	-	INTER LINK
Frame	-	56HZ
Horsepower	-	60
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	208	200
Rated Amperage	-	8.0
Service Factor	-	1.15

Test Data		
	Design	Actual
SF CFM	3400	3630
RA CFM	2720	3305
OA CFM	680	666
RL Voltage	-	285
RL Amperage	-	8.3
OA Damper Position	-	3.2

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.72"
Fan Suction SP	-	-0.96"
Fan Discharge SP	-	0.88"
Total ESP	0.6	1.60"
Fan Total SP	-	1.84"

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Project: Cincinnati Dayton Convenience Store (West Chester, OH)

## AHU/RTU



### Diffuser Supply (GRD)

#### RTU-2/SALES

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
RTU-2-SGRD1	RR	CD	6	50	40	48	96.0
RTU-2-SGRD2	RR	CD	6	50	48	55	110.0
RTU-2-SGRD3	SALES	CD	6	100	22	43	43.0
RTU-2-SGRD4	SALES	SR	20	325	376	333	102.5
RTU-2-SGRD5	SALES	SR	20	325	518	359	110.5
RTU-2-SGRD6	SALES	SR	16	325	472	351	108.0
RTU-2-SGRD7	SALES	SR	16	335	504	362	108.1
RTU-2-SGRD8	SALES	SR	12	455	431	547	120.2
RTU-2-SGRD9	SALES	SR	18	325	339	339	104.3
RTU-2-SGRD10	SALES	SR	18	325	355	355	109.2
RTU-2-SGRD11	SALES	SR	14	335	361	361	107.8
RTU-2-SGRD12	SALES	SR	14	450	510	477	106.0
Total				3400	3976	3630	106.76%

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## System/Unit: AHU/RTU

Asset: RTU-3

AREA:KITCHEN

Unit Data		
	Design	Actual
MFG	NA	Lennox
Serial Num	-	5623M01280
Model Num	NA	KGB074S4TQ3Y
Configuration	-	Vertical
Num OA Filters 1	-	2
OA Filter Size 1	-	15"x15"
Num PreFilter 1	-	4
PreFilter Size 1	-	20x20x2

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	56HZ
Horsepower	-	2.0
Motor Rpm	-	1740
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	6.0
Service Factor	-	1.15

Test Data		
	Design	Actual
SF CFM	2200	2122
RA CFM	2200	1697
OA CFM	440	425
RL Voltage	-	211
RL Amperage	-	2.75/2.80
OA Damper Position	-	2.0 V

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.115"
Fan Suction SP	-	-0.182"
Fan Discharge SP	-	0.142"
Total ESP	0.5	0.257"
Fan Total SP	-	0.324"

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## AHU/RTU



### Diffuser Supply (GRD)

#### RTU-3/KITCHEN

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
RTU-3-SGRD1	KITCHEN	CD	10	230	383	225	97.8
RTU-3-SGRD2	KITCHEN	CD	12	525	485	475	90.5
RTU-3-SGRD3	KITCHEN	CD	12	460	561	441	95.9
RTU-3-SGRD4	KITCHEN	CD	12	460	575	459	99.8
RTU-3-SGRD5	KITCHEN	CD	12	525	645	522	99.4
Total				2200	2649	2122	96.45%

### Diffuser Ret/Exh (GRD)

#### RTU-3/KITCHEN

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
RTU-3-EGRD1	RR	22X22	2200	1				-
Total			2200		0	0	0	0%

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Project: Cincinnati Dayton Convenience Store (West Chester, OH)



## System/Unit: FAN - Exhaust

Asset: EF-1

AREA:RR

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-A90-QD
Serial Num	-	25454269

Test Data		
	Design	Actual
CFM	-	96

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Horsepower	-	NA
Motor Rpm	-	900
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	0.17

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Notes:

No speed controller located

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## System/Unit: FAN - Exhaust

Asset: EF-2

AREA:RR

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	CSP-A390-VG-QD
Serial Num	-	25454452

Test Data		
	Design	Actual
CFM	-	337

Motor Data		
	Design	Actual
Motor MFG	-	NA
Horsepower	-	NA
Motor Rpm	-	NA
Phase	1	NA
Voltage (rated)	120	NA
Amperage (rated)	-	NA

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Notes:

Unable to locate motor data. No speed controller located either

Written By: Chase Wright on 04/04/2025