

Report By:

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



Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 10/14/2024
Completed By: National TAB

PROJECT

10-14-24 KROGER #014-825 KETTERING, OH

2115 E DOROTHY LANE

KETTERING , OH 45420

Client

Kroger Division 014
150 Tri-County Parkway
Cincinnati, OH 45246

National TAB

Project: 10-14-24 KROGER #014-825 KETTERING, OH

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Project Summary

The summary below provides a quick understanding of our scope of work and general testing procedures. Enclosed in the report is further detail about your building performance including recommendations, asset data, and pictures. Our focus is to work with the trades to remedy any issues or deficiencies during the actual field balancing and not after the balancing has occurred to achieve a positive environment and outcome. The level of success is determined by the availability of the trades, possible parts needed, or time constraints.

RTU's

The RTU's were first inspected to ensure that there are no defects or issues that may impact operation of the unit. Then each of the RTU's were measured at their terminal devices with a flow hood or by a total flow measurement via traverses. The sum of these readings is equal to the total flow for that particular unit. The total flow of each RTU was then adjusted within tolerance of the specified design. The outside airflow was measured by reading the intake filter with a velocity and multiplying by the free area. Adjustments were made to the damper until the airflow was within the required tolerances. Any equipment that fell outside of this design is noted throughout the report.

CheckList List

- RTU CHECKLIST
- SITE PICTURES



10-14-24 KROGER #014-825 KETTERING, OH

CheckList Information

Name : RTU CHECKLIST **Status :** Not Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 10/14/2024 - Wale Odofin - National TAB

CheckList Item Details

RTU CHECKLIST

Units are labeled and installed at proper locations	No
--	----

Comment:

Unit is in correct location but does not have a number label. Unit is the only trane unit on roof.

Units size matches its design (nameplate)	Yes
--	-----

Comment:

Clean filters are installed at DX coil	Yes
---	-----

Comment:

Belts are tight and in good working order	N/A
--	-----

Comment:

Pulleys are properly aligned	N/A
-------------------------------------	-----

Comment:

Motors rotating correctly	Yes
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Comment:

Motors are operating under full load amps

Yes

Comment:

Units sealed and properly seated to roof curb

Yes

Comment:

Evaporator coils clean and free of debris

Yes

Comment:

Gas piping installed

Yes

Comment:

Gas valves turned in the on position

Yes

Comment:

Condensate lines and P-traps installed correctly

Yes

Comment:

Disconnect switch installed

Yes

Comment:

Unit is free of noticeable vibration and noise?

Yes

Comment:

Economizer filters installed

Yes

Comment:

Outside air dampers installed and functioning

Yes

Comment:

Outside air damper positions are clearly marked

N/A

Comment:

Is unit bringing in sufficient amount of outside air

Yes

Comment:

Unit is providing required supply airflow

Yes

Comment:

Condensor coil clean and free of damage

Yes

Comment:

Verify voltage input correct

Yes

Comment:



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System/Unit: AHU/RTU



Asset: RTU1

AREA:CLINIC

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	234111713L
Model Num	YSC036GG3RHB	YSC036G3RHB2F
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	10.5"x25.5"
Num Final Filter 1	-	2
Final Filter Size 1	-	19.5"x34.5"x1.5"

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	NL
Horsepower	-	0.75
Motor Rpm	-	NL
Phase	1	1
Rated Voltage	208/230	208
Rated Amperage	-	5.7

Drive Data	
	Actual
Motor Sheave Size	DD
Motor Bore Size	DD
Motor Sheave SetPt	DD
Fan Sheave Size	DD
Fan Sheave Bore	DD
Belt CL Distance	DD
Num of Belts	DD
Belt Size	DD
Belt Alignment	DD

Test Data		
	Design	Actual
SF CFM	1125	1180
RA CFM	885	920
OA CFM	240	260
RL Voltage	-	205
RL Amperage	-	1.7
SF Rotation	-	CW
SF System SetPt	-	SPEED TAP 1
RA Damper Position	-	75%
Min OA Damper Position	-	25%
Min OA Damper Type	-	CROSSLINKED DAMPERS
OA Enthalpy Setpt	-	C

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.05"
Fan Suction SP	-	-0.15"
Fan Discharge SP	-	0.24"
Total ESP	0.70"	0.29"
Fan Total SP	-	0.39"

General	
	Actual
Fan Rotation Correct	Yes
Unit Filters Clean	Yes
Condensate Drain Installed	Yes

Completed By: Cody Collett on 10/14/2024



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AHU/RTU



Diffuser Supply (GRD)

RTU1/CLINIC

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	WELCOME COUNTER	CD-1	8"	200	1	287	209	204	102.0
SGRD2	CLINIC	CD-1	8"	200	1	70	72	219	109.5
SGRD3	COUNSEL	CD-1	8"	125	1	269	174	126	100.8
SGRD4	PATIENT CARE	CD-1	8"	175	1	304	238	180	102.9
SGRD5	MED PREP RM	CD-1	8"	100	1	224	218	97	97.0
SGRD6	PATIENT CARE	CD-1	8"	175	1	264	228	191	109.1
SGRD7	HALLWAY	CD-1	8"	150	1	297	178	163	108.7
Total				1125		1715	1317	1180	104.89%

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