

Report By:

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



Report: TAB Report
Function: Test, Adjust, & Balance
Date: 10/10/2025
Completed By: National TAB

PROJECT
09-15-25 QT #1727 EMERSON, GA

105 OLD ALLATOONA ROAD

EMERSON, GA 30121

Client

QUIKTRIP
4705 SOUTH 129TH EAST AVENUE
TULSA, OK 74134

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Project: 09-15-25 QT #1727 EMERSON, GA

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CheckList List

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- 02: Exhaust Fans
- 03: Hoods
- 04: Final Tests



09-15-25 QT #1727 EMERSON, GA

CheckList Information

Name : 01: RTU's/AHU's **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 09/08/2025 - Trinity Dodds - National TAB
Completed Date : 09/19/2025 - Sagar Patel - National TAB

CheckList Item Details

RTU's/AHU's

Evaporator coils are clean? Pass

Comment:

Condenser coils are clean? Pass

Comment:

Gas piping is installed and valves are turned on? N/A

Comment:

Unit free of noticeable noise and vibration Pass

Comment:



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CheckList Information

Name : 02: Exhaust Fans **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 09/08/2025 - Trinity Dodds - National TAB
Completed Date : 09/19/2025 - Sagar Patel - National TAB

CheckList Item Details

EF's

Hinge kit installed installed on hood fan? Pass

Comment:

Flex conduit is long enough so that fan can be completely tilted back? Pass

Comment:

No major leakage around the fan base Pass

Comment:

Unit is free of noise and vibration Pass

Comment:



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CheckList Information

Name : 03: Hoods **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 09/08/2025 - Trinity Dodds - National TAB
Completed Date : 09/19/2025 - Sagar Patel - National TAB

CheckList Item Details

HOODS

Hood is free of alarms? Pass

Comment:

Hood is free of damage? Pass

Comment:

End panels are installed per prototype? Pass

Comment:



09-15-25 QT #1727 EMERSON, GA

CheckList Information

Name : 04: Final Tests **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 09/08/2025 - Trinity Dodds - National TAB

Completed Date : 09/19/2025 - Sagar Patel - National TAB

CheckList Item Details

FINAL CHECKS

HOOD CAPTURE TEST

List kitchen equipment turned on for testing

Comment:

FRYER AND OVEN

List smoke candle type used

Comment:

SMOKE EMITTER 45 SECOND

Smoke test capture % - Perimeter of hood

Comment:

100%

Smoke test capture % - Top of cooking surface

Comment:

100%

WITNESS

Date test was completed

09/19/2025

Comment:

TAB tech name / Firm

Comment:

SAGAR PATEL / NATIONAL TAB INTELLIGENCE

Site super name / Firm

Comment:

LESLIE HUNTER / LESLIE HUNTER CONTRACTING

Owner representative name / Firm (if Applicable)

Comment:

BUILDING PRESSURE

Do actual net building airflow, design net building airflow, and pressure coincide? If not why? (All three should either be positive or negative)

Pass

Comment:

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Project: 09-15-25 QT #1727 EMERSON, GA

System/Unit: AHU/RTU



Asset: RT-1

AREA:SALES FLOOR

Unit Data		
	Design	Actual
MFG	NA	AAON
Serial Num	-	202009-ANEK21078
Model Num	NA	RN-013-8-0-EA0A-152
Type	-	RTU
Num OA Filters 1	-	1
OA Filter Size 1	-	45X22"

Motor Data		
	Design	Actual
Motor MFG	-	N/L
Frame	-	N/L
Horsepower	-	3
Motor Rpm	-	1760
Phase	-	3
Rated Voltage	-	208
Rated Amperage	-	10.6

Drive Data	
	Actual
Motor Sheave Size	DD

Test Data		
	Design	Actual
SF CFM	4200	4128
SF RPM	-	1238
RA CFM	3400	3316
OA CFM	800	812
RL Voltage	-	131 VFD
RL Amperage	-	6.19 VFD
SF Rotation	-	CCW
SF System SetPt	-	42.2 Hz
RA Damper Position	-	90%
Min OA Damper Position	-	10%
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.54"
Fan Suction SP	-	-0.81"
Fan Discharge SP	-	0.19"
Total ESP	-	0.73"
Fan Total SP	-	1.00"

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

Completed By: Sagar Patel on 09/19/2025

Notes:
RTU balanced for total flow and diffusers balanced for comfort

Written By: on

National TAB

Project:09-15-25 QT #1727 EMERSON, GA

AHU/RTU



Diffuser Supply (GRD)

RT-1/SALES FLOOR

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	ENTRANCE	ES	10"	300					-
SGRD2	SALES	ES	10"	400					-
SGRD3	SALES	ES	10"	450					-
SGRD4	SALES	ES	12"	400					-
SGRD5	SALES	ES	12"	400					-
SGRD6	SALES	ES	10"	450					-
SGRD7	SALES	ES	12"	425					-
SGRD8	SALES	ES	12"	425					-
SGRD9	WOMENS RR	ES	10"	200					-
SGRD10	SIDE ENTRANCE	ES	12"	500					-
SGRD11	MENS RR	ES	8"	250					-
Total				4200		0	0	0	0%

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Project: 09-15-25 QT #1727 EMERSON, GA

System/Unit: AHU/RTU



Asset: RT-2

AREA: SALES FLOOR

Unit Data		
	Design	Actual
MFG	NA	AAON
Serial Num	-	202009-ANEK2180
Model Num	NA	RN-013-8-0-EA0A-152
Type	-	RTU
Num OA Filters 1	-	1
OA Filter Size 1	-	45X22"

Motor Data		
	Design	Actual
Motor MFG	-	N/L
Frame	-	N/L
Horsepower	-	3
Motor Rpm	-	1760
Phase	-	3
Rated Voltage	-	208
Rated Amperage	-	10.6

Drive Data	
	Actual
Motor Sheave Size	DD

Test Data		
	Design	Actual
SF CFM	4200	4197
SF RPM	-	1270
RA CFM	3400	3461
OA CFM	800	736
RL Voltage	-	141 VFD
RL Amperage	-	7.24 VFD
SF Rotation	-	CCW
SF System SetPt	-	43.3 Hz
RA Damper Position	-	90%
Min OA Damper Position	-	10%
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.46"
Fan Suction SP	-	-0.72"
Fan Discharge SP	-	0.23"
Total ESP	-	0.69"
Fan Total SP	-	0.95"

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

Completed By: Sagar Patel on 09/19/2025

Notes:
RTU balanced for total flow and diffusers balanced for comfort

Written By: on

National TAB

Project:09-15-25 QT #1727 EMERSON, GA

AHU/RTU



Diffuser Supply (GRD)

RT-2/SALES FLOOR

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	ENTRANCE	ES	10"	300					-
SGRD2	SALES	ES	10"	400					-
SGRD3	SALES	ES	12"	525					-
SGRD4	SALES	ES	8"	200					-
SGRD5	SALES	ES	12"	525					-
SGRD6	SALES	ES	12"	525					-
SGRD7	SIDE ENTRANCE	ES	10"	300					-
SGRD8	SALES	ES	12"	525					-
SGRD9	SALES	ES	10"	450					-
SGRD10	SALES	ES	10"	450					-
Total				4200		0	0	0	0%

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Project: 09-15-25 QT #1727 EMERSON, GA

System/Unit: AHU/RTU



Asset: RT-3

AREA:BOH/KITCHEN

Unit Data		
	Design	Actual
MFG	NA	AAON
Serial Num	-	202009-ANEK21079
Model Num	NA	RN-013-8-0-EA0A-152
Type	-	RTU
Num OA Filters 1	-	1
OA Filter Size 1	-	45X22"

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	-	
Rated Voltage	-	
Rated Amperage	-	

Drive Data	
	Actual
Motor Sheave Size	DD

Test Data		
	Design	Actual
SF CFM	4200	4048
SF RPM	-	1291
RA CFM	3400	3305
OA CFM	800	743
RL Voltage	-	145 VFD
RL Amperage	-	7.45 VFD
SF Rotation	-	CCW
SF System SetPt	-	44.0 Hz
RA Damper Position	-	90%
Min OA Damper Position	-	10%
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.62"
Fan Suction SP	-	-0.83"
Fan Discharge SP	-	0.45"
Total ESP	-	1.07"
Fan Total SP	-	1.28"

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

Completed By: Sagar Patel on 09/19/2025

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AHU/RTU



Diffuser Supply (GRD)

RT-3/BOH/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	SUPPORT SERVICE	SI	12"	800	1	236	530		-
SGRD2	SUPPORT SERVICE	SI	12"	800	1	349	827		-
SGRD3	SUPPORT SERVICE	SI	12"	800	1	370	831		-
SGRD4	SUPPORT SERVICE	SI	12"	800	1	300	687		-
SGRD5	WORKROOM	ES	10"	500	1	245	567		-
SGRD6	WORKROOM	ES	10"	250	1	124	292		-
SGRD7	WORKROOM	ER	8"	250	1	108	241		-
Total				4200		1732	3975	0	0%

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Project: 09-15-25 QT #1727 EMERSON, GA

System/Unit: FAN - Exhaust



Asset: EF1

AREA:RR/JANITOR'S CLOSET

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	DR50HFA
Serial Num	-	4639275
Type	-	DOWNBLAST
Configuration	-	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	HSSA
Frame	-	N/L
Horsepower	-	0.5
Motor Rpm	-	1625
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	7.6
Service Factor	-	N/L

Test Data		
	Design	Actual
CFM	750	803
Fan Rotation	-	CCW
System SetPt	-	LOW
RL Voltage	-	[1]
RL Amperage	-	[1]
Total ESP	-	-0.16"
Fan Inlet SP	-	-0.16"
Fan Discharge SP	-	1 ATM

Completed By: Sagar Patel on 09/19/2025

Notes:

[1] UNABLE TO READ VOLTS AND AMPS SAFELY

Written By: Sagar Patel on 09/19/2025

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 Project:09-15-25 QT #1727 EMERSON, GA
FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF1/RR/JANITOR'S CLOSET

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	MEN'S RR	EE	12"	300	1	433	433	339	113.0
EGRD2	JANITOR'S CLOSET	EE	6"	100	1	103	103	79	79.0
EGRD3	WOMEN'S RR	EE	10"	200	1	301	301	245	122.5
EGRD4	SUPPORT SERVICE	RI	8"	150	1	138	138	140	93.3
Total				750		975	975	803	107.07%

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Project: 09-15-25 QT #1727 EMERSON, GA

System/Unit: FAN - Exhaust



Asset: EF3

AREA:KITCHEN HOOD

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	DU50HFA
Serial Num	-	7632101
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TELCOGREEN
Frame	-	N/L
Horsepower	1/2	0.5
Motor Rpm	-	1800
Phase	-	1
Voltage (rated)	-	208
Amperage (rated)	-	15
Service Factor	-	N/L

Test Data		
	Design	Actual
CFM	1350	1302
Fan RPM	-	2394
Fan Rotation	-	CCW
Motor RPM	-	2394
System SetPt	-	79.8 Hz
RL Voltage	-	207
RL Amperage	-	14.4
Total ESP	-	-0.58"
Fan Inlet SP	-	-0.58"
Fan Discharge SP	-	1 ATM

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Project: 09-15-25 QT #1727 EMERSON, GA

System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:GRIDDLE

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	6030 ND-2-F	6030 ND-2-F
Job / Serial Num	-	7632101
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	-	109"
Hood Width	-	60"

Test Data Exhaust		
	Design	Actual
Filter Type	-	CAPTRATE
Filter Size 1	-	14X18"
Filter Qty 1	-	6
Filter AK factor size 1	-	1.75
Filter Total AK Area	-	10.5
Filter1 FPM	-	107
Filter2 FPM	-	120
Filter3 FPM	-	125
Filter4 FPM	-	144
Filter5 FPM	-	127
Filter6 FPM	-	124
Filter Ave FPM(corr)	-	124
CFM	1350	1302

Cooking Equipment	
	Actual
Item 1	FRYER
Item 2	OVEN

Completed By: Sagar Patel on 09/19/2025