Report By:

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

Report: Inspection Report

Function: Test, Adjust, & Balance

Date: 02/09/2026

Completed By: National TAB

PROJECT

02-09-26 QT #1425 PEORIA, AZ

7455 W. PEORIA AVE

PEORIA, AZ

Client

QUIKTRIP

4705 SOUTH 129TH EAST AVENUE

TULSA, OK 74134

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Project: 02-09-26 QT #1425 PEORIA, AZ

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Project Summary

Project Summary
The summary below provides a quick understanding of our scope of work and general testing procedures. Enclosed in the report are further details 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 (Roof Top Units) w/ Diffusers
Each of the RTU's were measured at their terminal devices or via traverse to establish a total flow for that unit. Each RTU was adjusted to within tolerance of the engineer's design flow. Each outlet was then adjusted for comfort and hood performance. Outside air was measured by reading the intake air opening with a velocity grid and multiplying by the free area. The outside air damper was adjusted until the airflow was within the design requirements. Any equipment that fell outside of that tolerance is noted throughout the report.

Kitchen Exhaust Hood & Associated Fans
Each kitchen exhaust fan was measured at the hood filter bay utilizing a velocity matrix and a manufacturer's correction factor. Each filter velocity is multiplied by the manufacturer's corrected area. The sum of these readings equals the total flow of the exhaust fans. The total flow of the exhaust was then adjusted to within tolerance of the design flow. Any EF's that fell outside of this tolerance is noted throughout the report.

Final Building Tests
After completing the test and balance the final building pressure was measured. It was confirmed that the building pressure fell within acceptable tolerances and that the pressure measurement coincides with the actual and design net airflow. Any deviations from these standards are noted throughout the report. The hood capture was tested at the perimeter of the hood and the cook top level with the equipment heat on to ensure satisfactory hood capture and containment.

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Project: 02-09-26 QT #1425 PEORIA, AZ

System/Unit: AHU/RTU

Asset: RT-1 AREA:SALES FLOOR

Unit Data	
	Actual
MFG	AAON
Serial Num	202012-ANEK21531
Model Num	RN-013-8-0-EA0A-152
Num OA Filters 1	1
OA Filter Size 1	44.5X22.5
Num Final Filter 1	2
Final Filter Size 1	44X20

Motor Data	
	Actual
Motor MFG	NL
Frame	NL
Horsepower	3
Motor Rpm	1760
Phase	3
Rated Voltage	208
Rated Amperage	10.6

Test Data		
	Design	**Actual**
SF CFM	4200	4115
SF RPM	-	1337
OA CFM (Hoods On)	800	799
OA CFM (Hoods Off)	350	347
RL Voltage	-	155@VFD
RL Amperage	-	7.4@VFD
VFD Max SetPt	-	45.6HZ
VFD Min SetPt	-	24HZ
OA Damper Position (Hoods On)	-	46%
OA Damper Position (Hoods Off)	-	19%

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.53”
Fan Suction SP	-	-0.78”
Fan Discharge SP	-	0.16”
Total ESP	-	0.69"
Fan Total SP	-	0.94"

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

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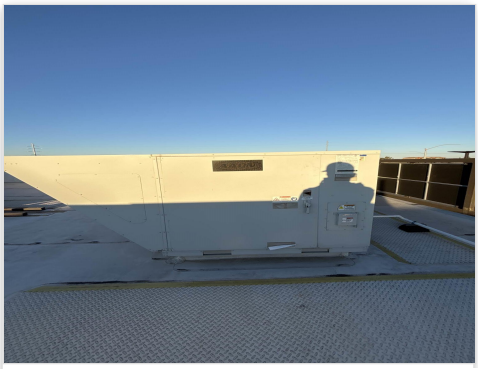
Unit Data - PHOTO LOG

02/09/2026



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Project: 02-09-26 QT #1425 PEORIA, AZ

System/Unit: AHU/RTU

Asset: RT-2 AREA:SALES FLOOR

Unit Data	
	Actual
MFG	AAON
Serial Num	202012-ANEK21532
Model Num	RN-013-8-0-EA0A
Num OA Filters 1	1
OA Filter Size 1	44.5X22.5
Num Final Filter 1	2
Final Filter Size 1	44X20

Motor Data	
	Actual
Motor MFG	NL
Frame	NL
Horsepower	3
Motor Rpm	1760
Phase	3
Rated Voltage	208
Rated Amperage	10.6

Test Data		
	Design	**Actual**
SF CFM	4200	4314
SF RPM	-	1320
OA CFM (Hoods On)	800	806
OA CFM (Hoods Off)	350	375
RL Voltage	-	151@VFD
RL Amperage	-	7.7@VFD
VFD Max SetPt	-	45HZ
VFD Min SetPt	-	24HZ
OA Damper Position (Hoods On)	-	46%
OA Damper Position (Hoods Off)	-	21%

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.50”
Fan Suction SP	-	-0.76”
Fan Discharge SP	-	0.23”
Total ESP	-	0.73"
Fan Total SP	-	0.99"

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

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Unit Data - PHOTO LOG

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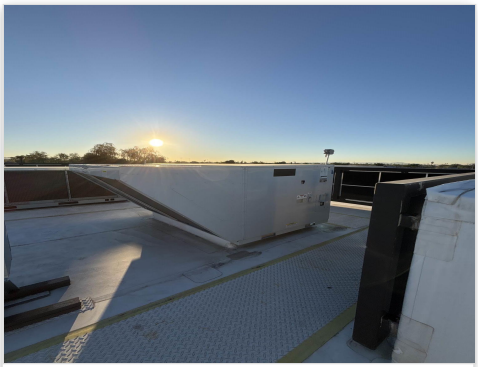

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Project: 02-09-26 QT #1425 PEORIA, AZ

System/Unit: AHU/RTU

Asset: RT-3 AREA:BOH/KITCHEN

Unit Data	
	Actual
MFG	AAON
Serial Num	202012-ANEK21533
Model Num	RN-013-8-0EA0A-152
Num OA Filters 1	1
OA Filter Size 1	44.5X22.5
Num Final Filter 1	2
Final Filter Size 1	44X20

Motor Data	
	Actual
Motor MFG	NL
Frame	NL
Horsepower	3
Motor Rpm	1760
Phase	3
Rated Voltage	208
Rated Amperage	10.6

Test Data		
	Design	**Actual**
SF CFM	4200	4263
SF RPM	-	1584
OA CFM (Hoods On)	800	813
OA CFM (Hoods Off)	350	368
RL Voltage	-	208@VFD
RL Amperage	-	9.7@VFD
VFD Max SetPt	-	54HZ
VFD Min SetPt	-	24HZ
OA Damper Position (Hoods On)	-	46%
OA Damper Position (Hoods Off)	-	24%

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.94”
Fan Suction SP	-	-1.28”
Fan Discharge SP	-	0.39”
Total ESP	-	1.33"
Fan Total SP	-	1.67"

General	
	Actual
Fan Rotation Correct	
Unit Filters Clean	
Condensate Drain Installed	

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Unit Data - PHOTO LOG

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Project: 02-09-26 QT #1425 PEORIA, AZ

System/Unit: FAN - Exhaust

Asset: EF1 AREA:RR/JANITOR

Unit Data		
	Design	**Actual**
MFG	NA	CAPTIVEAIRE
Model Num	NA	DR50HFA
Serial Num	-	4683904
Type	-	DOWNBLAST
Configuration	-	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	NEMA
Frame	-	NL
Horsepower	-	0.500
Motor Rpm	-	2000
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	8.4
Service Factor	-	NL

Test Data		
	Design	**Actual**
CFM	750	779
Fan RPM	-	NA
Fan Rotation	-	CCW
Motor RPM	-	NA
System SetPt	-	LOW
RL Voltage	-	NA
RL Amperage	-	4.3
Total ESP	-	0.31”
Fan Inlet SP	-	-0.31”
Fan Discharge SP	-	ATMS

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Unit Data - PHOTO LOG

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Project: 02-09-26 QT #1425 PEORIA, AZ

System/Unit: FAN - Exhaust

Asset: EF3 AREA:KITCHEN HD

Unit Data		
	Design	**Actual**
MFG	NA	CAPTIVEAIRE
Model Num	NA	DU50HFA
Serial Num	-	8384994
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	NEMA
Frame	-	NL
Horsepower	1/2	1/2
Motor Rpm	-	1800
Phase	-	1
Voltage (rated)	-	208
Amperage (rated)	-	3.8
Service Factor	-	NL

Test Data		
	Design	**Actual**
CFM	1350	1372
Fan RPM	-	1249
Fan Rotation	-	CCW
Motor RPM	-	1249
System SetPt	-	55.8HZ
RL Voltage	-	210
RL Amperage	-	2.8
Total ESP	-	0.64”
Fan Inlet SP	-	-0.64”
Fan Discharge SP	-	ATMS

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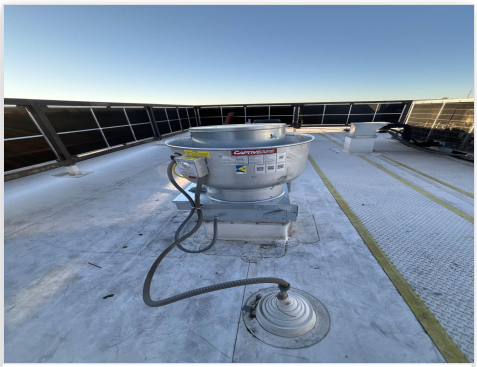
Unit Data - PHOTO LOG



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Project: 02-09-26 QT #1425 PEORIA, AZ

System/Unit: Kitchen Hood Type I

Asset: HD1 AREA:GRIDDLE

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	6030ND-2-F	6030ND-2-F
Job / Serial Num	-	8384994
Type	-	TYPE I CANOPY
Hood length	-	108”
Hood Width	-	60”

Test Data Exhaust		
	Design	**Actual**
Filter Type	-	BAFFLE
Filter Size 1	-	20X16
Filter Qty 1	-	6
Filter AK factor size 1	-	2.08
Filter Total AK Area	-	12.48
Filter1 FPM	-	105
Filter2 FPM	-	119
Filter3 FPM	-	113
Filter4 FPM	-	117
Filter5 FPM	-	114
Filter6 FPM	-	96
Filter Ave FPM(corr)	-	110
CFM	1350	1372

Cooking Equipment	
	Actual
Item 1	FRYER
Item 2	OVEN

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Unit Data - PHOTO LOG

02/09/2026