

Report By:

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



Report: TAB Report
Function: Test, Adjust, & Balance
Date: 02/26/2026
Completed By: National TAB

PROJECT

02-16-26 WHATABURGER #1687 LUTZ, FL

25340 Sierra Center Blvd

Lutz, FL

Client

Whataburger Restaurants
300 Concord Plaza Dr
San Antonio, TX 78216

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Project: 02-16-26 WHATABURGER #1687 LUTZ, FL

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Project: 02-16-26 WHATABURGER #1687 LUTZ, FL
Function: Test, Adjust, & Balance

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 to within tolerance of the design flow. 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.

Exhaust Fans w/ Registers

The exhaust fan was measured at the grilles to measure the total flow. The fan was then adjusted to bring airflow within tolerance of the engineer's design flow. Each grille was then adjusted to within tolerance of design flow.

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: 02-16-26 WHATABURGER #1687 LUTZ, FL

System/Unit: AHU/RTU



Asset: RTU-1

AREA:KITCHEN/DRY STORAGE

Unit Data	
	Actual
MFG	CARRIER
Serial Num	0320C85922
Model Num	50GCN06A2A5A0A0A0
Num OA Filters 1	1
OA Filter Size 1	28x14
Num Final Filter 1	4
Final Filter Size 1	16x16x2

Motor Data	
	Actual
Phase	1
Rated Voltage	208/230
Rated Amperage	8.6

Drive Data	
	Actual
Motor Sheave SetPt	DIRECT DRIVE

Test Data		
	Design	Actual
SF CFM (Traverse)	-	2329
SF CFM	2000	2247
SF RPM	-	2388
MOTOR RPM	-	DIRECT DRIVE
RA CFM (Traverse)	-	*
RA CFM	1300	1635
OA CFM	700	612
RL Voltage	-	212/212/212
RL Amperage	-	8.54
SF System SetPt	-	*
Min OA Damper Position	-	MAX
Min OA Damper Type	-	OPPOSED BLADE

Performance Data	
	Actual
MA Plenum SP	-0.23"
Fan Suction SP	-0.69"
Fan Discharge SP	1.12"
Total ESP	1.35"
Fan Total SP	2.04"

General	
	Actual
Unit free of Damage	YES
Fan Rotation Correct	CORRECT
Unit Filters Clean	YES
Condensate Drain Installed	YES

Completed By: Jackson Gunnels on 02/23/2026

Notes:

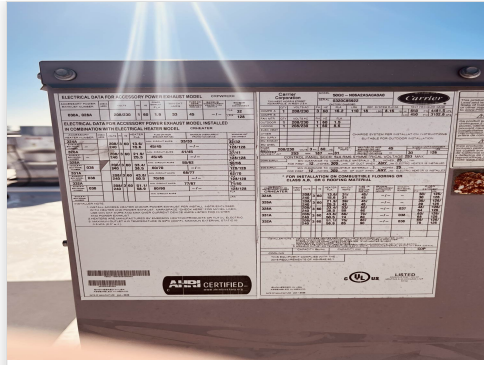
*Unable to traverse return

Written By: Jackson Gunnels on 02/19/2026

Unit Data - PHOTO LOG



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Project:02-16-26 WHATABURGER #1687 LUTZ, FL

AHU/RTU



Diffuser Supply (GRD)

RTU-1/KITCHEN/DRY STORAGE

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	KITCHEN	ETR		450	1	515	640	478	106.2
SGRD2	KITCHEN	ETR		450	1	101	343	533	118.4
SGRD3	DRY STORAGE	ETR		300	1	507	589	310	103.3
SGRD4	SERVING AREA	ETR		400	1	442	461	443	110.8
SGRD5	ENTRY	ETR		400	1	363	375	483	120.8
Total				2000		1928	2408	2247	112.35%

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Project: 02-16-26 WHATABURGER #1687 LUTZ, FL

System/Unit: AHU/RTU



Asset: RTU-2

AREA:DINING

Unit Data	
	Actual
MFG	CARRIER
Serial Num	030P89347
Model Num	50HCE09A2A5A0K0A0
Num OA Filters 1	1
OA Filter Size 1	35x19
Num Final Filter 1	4
Final Filter Size 1	20x20x2

Motor Data	
	Actual
Motor MFG	MARATHON
Frame	56HZ
Motor Rpm	1725
Phase	3
Rated Voltage	208-230
Rated Amperage	6.9-6.7

Drive Data	
	Actual
Motor Sheave Size	4
Motor Bore Size	5/8
Motor Sheave SetPt	2 TURNS OUT
Fan Sheave Size	AFD74
Fan Sheave Bore	1"
Belt CL Distance	16.75
Num of Belts	1
Belt Size	A48
Belt Alignment	GOOD

Test Data		
	Design	Actual
SF CFM	3400	3402
SF RPM	-	725
MOTOR RPM	-	1750
RA CFM	2300	2286
OA CFM	1100	1116
RL Voltage	-	214/213/212
RL Amperage	-	2.7/4.2/4.6
SF System SetPt	-	4 TURNS OUT
Min OA Damper Position	-	2.5"
Min OA Damper Type	-	OPPOSED BLADE

Performance Data	
	Actual
MA Plenum SP	-0.13"
Fan Suction SP	-0.75"
Fan Discharge SP	0.18"
Total ESP	0.31"
Fan Total SP	0.93"

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

Completed By: Jackson Gunnels on 02/23/2026

Notes:
Unable to traverse unit

Written By: Jackson Gunnels on 02/19/2026

Unit Data - PHOTO LOG

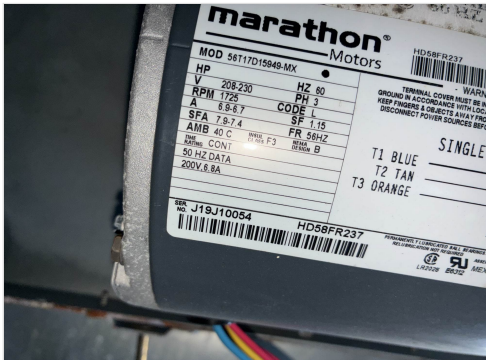


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Motor Data - PHOTO LOG



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Project:02-16-26 WHATABURGER #1687 LUTZ, FL

AHU/RTU



Diffuser Supply (GRD)

RTU-2/DINING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	DINING	ETR		425	0.95	505	459	459	108.0
SGRD2	DINING	ETR		425	0.95	670	432	432	101.6
SGRD3	DINING	ETR		425	0.95	441	440	440	103.5
SGRD4	DINING	ETR		425	0.95	419	395	395	92.9
SGRD5	DINING	ETR		425	0.95	428	437	437	102.8
SGRD6	DINING	ETR		425	0.95	513	409	409	96.2
SGRD7	DINING	ETR		425	0.95	484	416	416	97.9
SGRD8	DINING	ETR		425	0.95	482	414	414	97.4
Total				3400		3942	3402	3402	100.06%

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Project: 02-16-26 WHATABURGER #1687 LUTZ, FL

System/Unit: AHU/RTU



Asset: RTU-3

AREA: KITCHEN

Unit Data	
	Actual
MFG	CARRIER
Serial Num	0320P05391
Model Num	50HCD14A2A5A0K0A0
Num OA Filters 1	2
OA Filter Size 1	22.5x25.5
Num Final Filter 1	6
Final Filter Size 1	18X24X2

Motor Data	
	Actual
Motor MFG	MARATHON
Frame	56HZ
Motor Rpm	1725
Phase	3
Rated Voltage	230
Rated Amperage	10.6

Drive Data	
	Actual
Motor Sheave Size	4.75
Motor Bore Size	7/8
Motor Sheave SetPt	2.5 TURNS OUT
Fan Sheave Size	AK104
Fan Sheave Bore	1 3/16
Belt CL Distance	20.5
Num of Belts	1
Belt Size	A61
Belt Alignment	POOR

Test Data		
	Design	Actual
SF CFM	5000	5069
SF RPM	-	600
MOTOR RPM	-	1725
RA CFM	3365	4058
OA CFM	1635	1011
RL Voltage	-	212/212/211
RL Amperage	-	6.70/6.95/7.30
SF System SetPt	-	2.5 TURNS OUT
Min OA Damper Position	-	MAX
Min OA Damper Type	-	OPPOSED BLADE

Performance Data	
	Actual
MA Plenum SP	-0.24"
Fan Suction SP	-0.57"
Fan Discharge SP	0.90"
Total ESP	1.14"
Fan Total SP	1.47"

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

Completed By: Jackson Gunnels on 02/23/2026

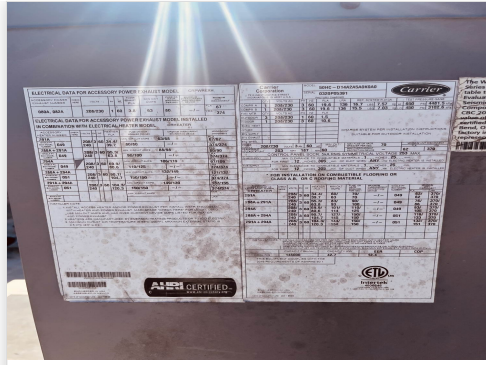
Notes:
Fan sheave sits further out than motor sheave

Written By: Jackson Gunnels on 02/18/2026

Unit Data - PHOTO LOG



02/19/2026



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Motor Data - PHOTO LOG



02/18/2026

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Project:02-16-26 WHATABURGER #1687 LUTZ, FL

AHU/RTU



Diffuser Supply (GRD)

RTU-3/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	BOH	ETR		500	1	367	427	427	85.4
SGRD2	WASHROOM	ETR		500	1	567	661	661	132.2
SGRD3	KITCHEN	ETR		500	1	514	599	599	119.8
SGRD4	KITCHEN	ETR		570	1	406	473	473	83.0
SGRD5	KITCHEN	ETR		570	1	362	422	422	74.0
SGRD6	KITCHEN	ETR		570	1	244	284	284	49.8
SGRD7	KITCHEN	ETR		570	1	587	684	684	120.0
SGRD8	KITCHEN	ETR		570	1	348	405	405	71.1
SGRD9	KITCHEN	ETR		550	1	704	820	820	149.1
SGRD10	WOMEN'S RR	ETR		50	1	118	137	137	274.0
SGRD11	MEN'S RR	ETR		50	1	135	157	157	314.0
Total				5000		4352	5069	5069	101.38%

Asset	Notes	Date	Written By
SGRD1	When dampers were adjusted, significant loss of total performance occurred. Left dampers open to maintain total flow.	02/26/2026	Stephen Tassinaro

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Project: 02-16-26 WHATABURGER #1687 LUTZ, FL

System/Unit: FAN - Exhaust



Asset: EF-4

AREA:RESTROOM

Unit Data	
	Actual
MFG	CAPTIVEAIRE
Model Num	DR10HFA
Serial Num	3908428
Type	CENTRIFUGAL
Configuration	DOWNBLAST

Motor Data	
	Actual
Horsepower	0.060
Phase	1
Voltage (rated)	115
Amperage (rated)	1.1

Test Data		
	Design	Actual
CFM	200	0
Fan RPM	-	-
Fan Rotation	-	-
Motor RPM	-	-
System SetPt	-	-
RL Voltage	-	-
RL Amperage	-	-
Total ESP	-	-
Fan Inlet SP	-	-
Fan Discharge SP	-	-

Completed By: Jackson Gunnels on 02/23/2026

Notes:

Fan not running. Unable to balance.

Written By: Stephen Tassinaro on 02/26/2026

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Project:02-16-26 WHATABURGER #1687 LUTZ, FL

FAN - Exhaust



Diffuser Supply (GRD)

EF-4/RESTROOM

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	WOMEN'S RR	ETR		100					-
SGRD2	MEN'S RR	ETR		100					-
Total				200		0	0	0	0%

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Project: 02-16-26 WHATABURGER #1687 LUTZ, FL

System/Unit: FAN - Exhaust



Asset: KEF-1

AREA:GRILLE

Unit Data		
	Design	Actual
MFG	GREENHECK	CAPTIVE AIRE
Model Num	CUE-140-VG	DU180HFA
Serial Num	-	8357473
Type	UPBLAST	CENTRIFUGAL
Configuration	VERTICAL	UPBLAST

Motor Data		
	Design	Actual
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	145T
Horsepower	0.75	1
Motor Rpm	-	1150
Phase	1	3
Voltage (rated)	208	230
Amperage (rated)	-	3.44
Service Factor	-	1.15

Test Data		
	Design	Actual
CFM	1995	1759
Fan RPM	-	1111
Fan Rotation	-	CORRECT
Motor RPM	-	DIRECT DRIVE
System SetPt	-	58
RL Voltage	-	201 VFD
RL Amperage	-	3.40 VFD
Total ESP	1.00"	1.60"
Fan Inlet SP	-	-1.60"
Fan Discharge SP	-	ATM

Completed By: Jackson Gunnels on 02/23/2026

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Project: 02-16-26 WHATABURGER #1687 LUTZ, FL

System/Unit: FAN - Exhaust



Asset: KEF-2

AREA:FRYER

Unit Data		
	Design	Actual
MFG	GREENHECK	CAPTIVE AIRE
Model Num	CUE-120-VG	DU50HFA
Serial Num	-	8357473
Type	UPBLAST	CENTRIFUGAL
Configuration	VERTICAL	UPBLAST

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Horsepower	0.25	0.5
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	208	208
Amperage (rated)	-	3.8

Test Data		
	Design	Actual
CFM	1091	972
Fan RPM	-	870
Fan Rotation	-	CORRECT
Motor RPM	-	DIRECT DRIVE
System SetPt	-	45
RL Voltage	-	212
RL Amperage	-	0.98
Total ESP	0.75"	0.21"
Fan Inlet SP	-	-0.21"
Fan Discharge SP	-	ATM

Completed By: Jackson Gunnels on 02/23/2026

Notes:

FLA not printed on motor label, read from unit label.

Written By: Jackson Gunnels on 02/20/2026

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Project: 02-16-26 WHATABURGER #1687 LUTZ, FL

System/Unit: Kitchen Hood Type I



Asset: HD-1

AREA:GRILL

Unit Data		
	Design	Actual
MFG	H&K	H&K
Model Num	HKD027	HKD027
Job / Serial Num	-	8189539
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	87"	87"
Hood Width	56"	56"

Test Data Exhaust		
	Design	Actual
Filter Type	FLAMGUARD	FLAMGUARD
Filter Size 1	20X12	20X12
Filter Qty 1	8	8
Filter AK factor size 1	1.5	1.5
Filter Total AK Area	12	12
Filter1 FPM	-	70
Filter2 FPM	-	89
Filter3 FPM	-	90
Filter4 FPM	-	67
Filter5 FPM	-	78
Filter6 FPM	-	87
Filter7 FPM	-	92
Filter8 FPM	-	80
Filter Ave FPM(corr)	-	81
CFM	1994	972

Cooking Equipment	
	Actual
Item 1	GRIDDLE
Item 2	CLAMSHELL

Completed By: Jackson Gunnels on 02/23/2026

National TAB

Project: 02-16-26 WHATABURGER #1687 LUTZ, FL

System/Unit: Kitchen Hood Type I



Asset: HD-2

AREA:FRYER HOOD

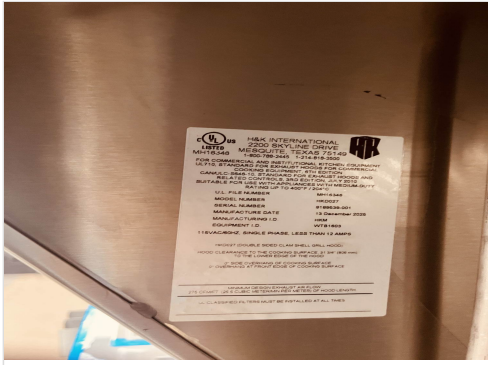
Unit Data		
	Design	Actual
MFG	H&K	H&K
Model Num	HKD023	HKD023
Job / Serial Num	-	8191084
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	66"	66"
Hood Width	22"	22"

Test Data Exhaust		
	Design	Actual
Filter Type	FLAMGUARD	FLAMGUARD
Filter Size 1	16X12	16X12
Filter Qty 1	4	4
Filter AK factor size 1	1.16	1.16
Filter Total AK Area	4.64	4.64
Filter1 FPM	-	356
Filter2 FPM	-	394
Filter3 FPM	-	385
Filter4 FPM	-	384
Filter Ave FPM(corr)	-	243
CFM	1091	1759

Cooking Equipment	
	Actual
Item 1	FRYER

Completed By: Jackson Gunnels on 02/23/2026

Unit Data - PHOTO LOG



02/19/2026

