

**Report By:**

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



**Report: TAB Report**  
**Function: Test, Adjust, & Balance**  
**Date: 03/18/2026**  
**Completed By: National TAB**

# PROJECT

**03-16-26 WHATABURGER #1499**  
**CARROLLTON, GA**

1119 S Park St.

Carrollton, GA

## Client

Whataburger Restaurants  
300 Concord Plaza Dr  
  
San Antonio, TX 78216

# National TAB

Project: 03-16-26 WHATABURGER #1499 CARROLLTON, GA

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Project: 03-16-26 WHATABURGER #1499 CARROLLTON,  
GA  
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: 03-16-26 WHATABURGER #1499 CARROLLTON, GA**

- [Open](#) Whataburger\_Balance\_Schedule.xlsx

## CheckList List

- 01: RTU's
- 02: EF's
- 03: Hoods
- 04: Final Checks



**03-16-26 WHATABURGER #1499 CARROLLTON, GA**

**CheckList Information**

**Name :** 01: RTU's **Status :** Not Completed  
**Assigned Organization :** National TAB **Asset :**  
**Requesting Organization :** National TAB  
**Created Date :** 03/05/2026 - Trinity Dodds - National TAB

**CheckList Item Details**

**RTU's/AHU's**

**Thermostats installed and have power?** Fail

**Comment:**

**All diffusers and grilles are installed and match design?** Pass

**Comment:**

**Motors are all operating below the FLA rating?** Pass

**Comment:**

**Is gas piping installed and valves turned on?** Pass

**Comment:**

**Unit free of noticeable noise and vibration** Pass

**Comment:**

**Final outside air damper position is set manually and marked with permanent marker?** N/A

**Comment:**

Outside Air damper can only be set through units HMI board. Economizer is marked.

**Supply airflow is 0 to +10%?** Pass

**Comment:**

---

**Outside airflow is 0 to +10%?**

Pass

---

**Comment:**

---

**Return balance dampers are confirmed to be 100% open (if installed)?**

Pass

---

**Comment:**

---

**Screenshot of the GRD marked up with supply and return traverse locations for RTU-1 (Add picture here)**

---

**Comment:**

---

**Screenshot of the GRD marked up with supply and return traverse locations for RTU-2 (Add picture here)**

---

**Comment:**

---

**For each unit supply, is the flow hood reading within 10% of the final traverse reading? If not do you feel any major points of leakage**

Pass

---

**Comment:**

---

**For each unit return, is the flow hood reading within 10% of the final traverse reading? If not do you feel any major points of leakage**

Pass

---

**Comment:**

---



03-16-26 WHATABURGER #1499 CARROLLTON, GA

CheckList Information

**Name :** 02: EF's **Status :** Completed

**Assigned Organization :** National TAB **Asset :**

**Requesting Organization :** National TAB

**Created Date :** 03/05/2026 - Trinity Dodds - National TAB

**Completed Date :** 03/17/2026 - Sagar Patel - National TAB

CheckList Item Details

EF's

Rotation is correct?	Pass
----------------------	------

Comment:

Belts are tight?	N/A
------------------	-----

Comment:

Hinge kit installed installed on hood fan?	Pass
--	------

Comment:

Lean fan back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?	Pass
---	------

Comment:

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

Comment:

There is no major leakage around base of fan?	Pass
---	------

Comment:

Is the motor operating below the motor FLA rating?

Pass

Comment:

For restroom fan(s) is the back draft damper installed and can it fully open?

Pass

Comment:

Unit free of noticeable noise and vibration?

Pass

Comment:

Exhaust airflow is 0 to +10%?

Pass

Comment:



03-16-26 WHATABURGER #1499 CARROLLTON, GA

CheckList Information

**Name :** 03: Hoods **Status :** Completed

**Assigned Organization :** National TAB **Asset :**

**Requesting Organization :** National TAB

**Created Date :** 03/05/2026 - Trinity Dodds - National TAB

**Completed Date :** 03/17/2026 - Sagar Patel - National TAB

CheckList Item Details

HOODS

All hood filters installed and accounted for? Pass

Comment:

Hoods are wired and have power? Pass

Comment:

Hood is free of alarms? Pass

Comment:

Hood is free of damage? Pass

Comment:

Quarter or full vertical end panels are installed if specified? Pass

Comment:



03-16-26 WHATABURGER #1499 CARROLLTON, GA

**CheckList Information**

**Name :** 04: Final Checks **Status :** Not Completed

**Assigned Organization :** National TAB **Asset :**

**Requesting Organization :** National TAB

**Created Date :** 03/05/2026 - Trinity Dodds - National TAB

**CheckList Item Details**

**FINAL CHECKS**

**Is space free of drafting?** Pass

**Comment:**

**Is space comfortable in all areas?** Pass

**Comment:**

**Is the space free of ventilation noise?** Pass

**Comment:**

**List kitchen equipment turned on for testing**

**Comment:**

N/A

**List smoke candle type used**

**Comment:**

45 Second Smoke Emitter

**HOOD CAPTURE TEST**

**Smoke test capture % - Perimeter of hood**

**Comment:**

**Smoke test capture % - Top of cooking surface**

**Comment:**

**WITNESS**

**Date test was completed**

03/18/2026

**Comment:**

**TAB tech name / Firm**

**Comment:**

Sagar Patel / National TAB Intelligence

**Site super name / Firm**

**Comment:**

**Owner representative name / Firm (if Applicable)**

**Comment:**

N/A

**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)**

**Comment:**

**Is the building pressure at least +0.02"? If not, do you see any obvious areas of external building that aren't sealed?**

**Comment:**

# National TAB

Project: 03-16-26 WHATABURGER #1499 CARROLLTON, GA

System/Unit: AHU/RTU



Asset: RTU-1

AREA:KITCHEN

Unit Data	
	Actual
MFG	CAPTIVEAIRE
Serial Num	8254876
Model Num	CAS-HAVAC3-I.300-20-20T
Num OA Filters 1	17
OA Filter Size 1	1.5X46
Num Final Filter 1	4
Final Filter Size 1	16X25X2
Num Final Filter 2	8
Final Filter Size 2	20X25X2

Motor Data		
	Design	Actual
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	184T
Horsepower	3	5
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	208	230
Rated Amperage	-	13.6

Test Data		
	Design	Actual
SF CFM (Traverse)	-	3911
SF CFM	3850	3879
SF RPM	-	1196
MOTOR RPM	-	1196
RA CFM (Traverse)	-	1596
RA CFM	1390	1532
OA CFM	2460	2347
RL Voltage	-	210 / 211 / 211
RL Amperage	-	9.7 / 10.1 / 10 .1
SF System SetPt	-	41 Hz
RA Damper Position	-	4.4 V
Min OA Damper Position	-	5.6 V
Min OA Damper Type	-	ECONOMIZER

Performance Data	
	Actual
Fan Discharge SP	0.39"

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

Completed By: Sagar Patel on 03/18/2026

## Unit Data - PHOTO LOG



03/17/2026

# National TAB

Project:03-16-26 WHATABURGER #1499 CARROLLTON, GA

## AHU/RTU



### Diffuser Supply (GRD)

#### RTU-1/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	BACK ENTRANCE	D	8"	200	0.31	179	208	203	101.5
SGRD2	DRY STORAGE	A	6"	100	1	97	103	101	101.0
SGRD3	DRY STORAGE	A	10"	300	1	333	297	289	96.3
SGRD4	OFFICE	A	6"	100	1	86	104	102	102.0
SGRD5	WASHROOM	A	10"	300	1	277	303	296	98.7
SGRD6	KITCHEN	A	12"	400	1	451	433	423	105.8
SGRD7	KITCHEN	A	12"	400	1	471	428	417	104.3
SGRD8	KITCHEN	B	12"	450	1	387	448	437	97.1
SGRD9	KITCHEN	B	12"	450	1	330	452	441	98.0
SGRD10	KITCHEN	D	8"	200	0.58	206	219	213	106.5
SGRD11	DRIVE-THRU AREA	A	10"	350	1	372	379	370	105.7
SGRD12	KITCHEN	A	12"	400	1	361	388	378	94.5
SGRD13	WOMEN'S RR	C	6"	100	1	167	109	106	106.0
SGRD14	MEN'S RR	C	6"	100	1	300	106	103	103.0
Total				3850		4017	3977	3879	100.75%

Completed By: Sagar Patel on 03/17/2026

# National TAB

Project: 03-16-26 WHATABURGER #1499 CARROLLTON, GA

System/Unit: AHU/RTU



Asset: RTU-2

AREA:DINING

Unit Data	
	Actual
MFG	CAPTIVEAIRE
Serial Num	8254876
Model Num	CAS-HVAC3-I.200-15-15T
Num OA Filters 1	17
OA Filter Size 1	1.5X46
Num Final Filter 1	4
Final Filter Size 1	16X25X2
Num Final Filter 2	8
Final Filter Size 2	20X25X2

Motor Data		
	Design	Actual
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	145T
Horsepower	2	1.5
Motor Rpm	-	1740
Phase	3	3
Rated Voltage	208	230
Rated Amperage	-	4.02

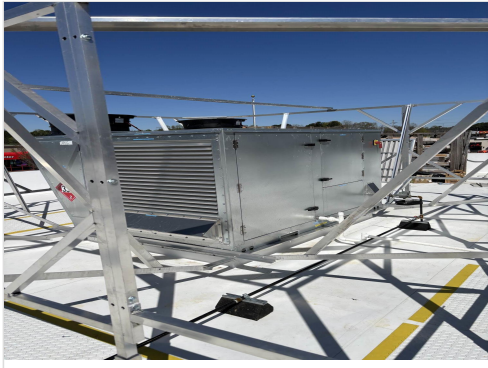
Test Data		
	Design	Actual
SF CFM (Traverse)	-	2338
SF CFM	2050	2122
SF RPM	-	1218
MOTOR RPM	-	1218
RA CFM (Traverse)	-	495
RA CFM	500	468
OA CFM	1550	1654
RL Voltage	-	128 VFD
RL Amperage	-	2.8 VFD
SF System SetPt	-	42 Hz
RA Damper Position	-	2.9 V
Min OA Damper Position	-	7.1 V
Min OA Damper Type	-	ECONOMIZER

Performance Data	
	Actual
Fan Discharge SP	0.23"

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

Completed By: Sagar Patel on 03/18/2026

## Unit Data - PHOTO LOG



03/17/2026

# National TAB

Project:03-16-26 WHATABURGER #1499 CARROLLTON, GA

## 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	ENTRANCE	D	8"	100	0.42	133	116	103	103.0
SGRD2	DINING	D	8"	100	0.42	87	132	101	101.0
SGRD3	DINING	D	8"	100	0.42	184	98	103	103.0
SGRD4	DINING	D	8"	100	0.42	124	154	108	108.0
SGRD5	DINING	D	8"	100	0.42	86	97	103	103.0
SGRD6	DINING	D	8"	100	0.42	128	117	106	106.0
SGRD7	DINING	D	8"	100	0.42	186	158	109	109.0
SGRD8	DINING	D	8"	100	0.42	202	156	108	108.0
SGRD9	DINING	D	8"	100	0.42	147	148	106	106.0
SGRD10	DINING	D	8"	100	0.42	230	211	104	104.0
SGRD11	DINING	D	8"	100	0.42	185	126	102	102.0
SGRD12	DINING	D	8"	100	0.42	122	91	106	106.0
SGRD13	DINING	A	8"	170	1	173	150	174	102.4
SGRD14	DINING	A	8"	170	1	141	128	171	100.6
SGRD15	SERVING AREA	A	8"	170	1	144	134	173	101.8
SGRD16	SERVING AREA	A	8"	170	1	124	109	169	99.4
SGRD17	SERVING AREA	D	8"	170	0.42	119	126	176	103.5
Total				2050		2515	2251	2122	103.51%

Completed By: Sagar Patel on 03/18/2026

# National TAB

Project: 03-16-26 WHATABURGER #1499 CARROLLTON, GA

## System/Unit: FAN - Exhaust



Asset: EF-1

AREA:RESTROOM

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	G-095-D	G-095-D
Serial Num	-	27749284
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	MCMILLIAN ELECTRIC COMPANY
Frame	-	N/L
Horsepower	1/8	0.125
Motor Rpm	-	1550
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	2.6
Service Factor	-	N/L

Test Data		
	Design	Actual
CFM	300	326
Fan Rotation	-	CCW
System SetPt	-	LOW
RL Voltage	-	[1]
RL Amperage	-	[1]
Total ESP	0.50"	0.38"
Fan Inlet SP	-	-0.38"
Fan Discharge SP	-	ATM

Completed By: Sagar Patel on 03/17/2026

Notes:

[1] UNABLE TO READ VOLTS AND AMPS SAFELY

Written By: Sagar Patel on 03/17/2026

**Unit Data - PHOTO LOG**



**03/17/2026**

# National TAB

Project:03-16-26 WHATABURGER #1499 CARROLLTON, GA

## FAN - Exhaust



### Diffuser Ret/Exh (GRD)

#### EF-1/RESTROOM

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	WOMEN'S RR	F	6X6	150	1	195	162	162	108.0
EGRD2	MEN'S RR	F	6X6	150	1	243	164	164	109.3
Total				300		438	326	326	108.67%

Completed By: Sagar Patel on 03/17/2026

# National TAB

Project: 03-16-26 WHATABURGER #1499 CARROLLTON, GA

System/Unit: FAN - Exhaust



Asset: KEF-1

AREA:GRILL HOOD

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	CUE-140-VG	CUE-140-VG
Serial Num	-	27723347
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	VARI-GREEN
Frame	-	N/L
Horsepower	1/3	1.0
Motor Rpm	-	1750
Phase	-	1
Voltage (rated)	-	208
Amperage (rated)	-	7.0
Service Factor	-	N/L

Test Data		
	Design	Actual
CFM	1994	2076
Fan Rotation	-	CCW
System SetPt	-	6.5
RL Voltage	-	213
RL Amperage	-	1.3
Total ESP	1.00"	0.37"
Fan Inlet SP	-	-0.37"
Fan Discharge SP	-	ATM

Completed By: Sagar Patel on 03/17/2026

## Unit Data - PHOTO LOG



03/17/2026

# National TAB

Project: 03-16-26 WHATABURGER #1499 CARROLLTON, GA

System/Unit: FAN - Exhaust



Asset: KEF-2

AREA:FRYER HOOD

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	CUE-120-VG	CUE-120-VG
Serial Num	-	27723373
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	VARI-GREEN
Frame	-	N/L
Horsepower	0.50	0.5
Motor Rpm	-	1750
Phase	-	1
Voltage (rated)	-	208
Amperage (rated)	-	3.8
Service Factor	-	N/L

Test Data		
	Design	Actual
CFM	1216	169
Fan Rotation	-	CCW
System SetPt	-	6.25
RL Voltage	-	213
RL Amperage	-	1.2
Total ESP	0.75"	0.43"
Fan Inlet SP	-	-0.43"
Fan Discharge SP	-	ATM

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## Unit Data - PHOTO LOG



03/17/2026

# National TAB

Project: 03-16-26 WHATABURGER #1499 CARROLLTON, GA

## System/Unit: Kitchen Hood Type I



Asset: HD-1

AREA:GRIDDLE HOOD

Unit Data		
	Design	Actual
MFG	H&K	H&K
Model Num	MH16346	HKD027
Job / Serial Num	-	8192630-001
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	87"	85"
Hood Width	55"	56"

Test Data Exhaust		
	Design	Actual
Filter Type	FLAMGAURD	FLAMGAURD
Filter Size 1	12X20	12X20
Filter Qty 1	8	8
Filter AK factor size 1	1.5	1.50
Filter Total AK Area	12	12
Filter1 FPM	-	165
Filter2 FPM	-	198
Filter3 FPM	-	180
Filter4 FPM	-	134
Filter5 FPM	-	159
Filter6 FPM	-	193
Filter7 FPM	-	195
Filter8 FPM	-	166
Filter Ave FPM(corr)	-	173
CFM	1994	2076

Cooking Equipment	
	Actual
Item 1	GRIDDLE

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## Unit Data - PHOTO LOG



03/17/2026

# National TAB

Project: 03-16-26 WHATABURGER #1499 CARROLLTON, GA

## System/Unit: Kitchen Hood Type I



Asset: HD-2

AREA:FRY HOOD

Unit Data		
	Design	Actual
MFG	H&K	H&K
Model Num	HKD023	HKD023
Job / Serial Num	-	8194636-001
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	72"	66"
Hood Width	32"	38"

Test Data Exhaust		
	Design	Actual
Filter Type	FLAMGAURD	FLAMGAURD
Filter Size 1	12X20	N/A
Filter Size 2	12X16	12X16
Filter Qty 1	2	N/A
Filter Qty 2	2	4
Filter AK factor size 1	1.5	N/A
Filters AK factor size 2	1.16	1.16
Filter Total AK Area	5.32	4.64
Filter1 FPM	-	261
Filter2 FPM	-	293
Filter3 FPM	-	304
Filter4 FPM	-	274
Filter Ave FPM(corr)	-	283
CFM	1216	1313

Cooking Equipment	
	Actual
Item 1	FRYER

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## Unit Data - PHOTO LOG



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