

**Report By:**

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



**Report: Prelim Report**  
**Function: Test, Adjust, & Balance**  
**Date: 10/02/2025**  
**Completed By: National TAB**

# PROJECT

## 09-29-25 Wendy's Jacksonville, FL

4453 Southside Blvd

Jacksonville, FL 32216

**Client**

SMT Mechanical

# National TAB

Project: 09-29-25 Wendy's Jacksonville,FL

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## CheckList List

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- STANDARD - 02: EF'S
- STANDARD - 03: MUA
- STANDARD - 04: HOODS
- STANDARD - 05: FINAL TESTS



09-29-25 Wendy's Jacksonville,FL

CheckList Information

**Name :** STANDARD - 01: RTU'S/AHU'S **Status :** Not Completed  
**Assigned Organization :** National TAB **Asset :**  
**Requesting Organization :** National TAB  
**Created Date :** 09/25/2025 - Tyce Fox - National TAB

CheckList Item Details

RTU's/AHU's

Thermostats installed and have power?

Comment:

All diffusers and grilles are installed and match design?

Comment:

Economizer blank plate is installed below the outside air intake (Trane only) (N/A = not applicable)

Comment:

Economizers are assembled and functional?

Comment:

Free cooling enthalpy set point set for lowest setting (Typically "D")

Comment:

Motors are all operating below the FLA rating?

Comment:

Are belts tight?

**Comment:**

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**If direct drive unit is the speed controller working?**

**Comment:**

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

**Comment:**

---

**Unit free of noticeable noise and vibration**

**Comment:**

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**Final outside air damper position is marked with permanent marker?**

**Comment:**

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**Comment:**

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

**Comment:**

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

**Comment:**

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**For direct drive fans, mark the final setting on the speed controller with permanent marker**

**Comment:**

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Comment:





09-29-25 Wendy's Jacksonville,FL

**CheckList Information**

**Name :** STANDARD - 05: FINAL TESTS      **Status :** Not Completed  
**Assigned Organization :** National TAB      **Asset :**  
**Requesting Organization :** National TAB  
**Created Date :** 09/25/2025 - Tyce Fox - National TAB

**CheckList Item Details**

**FINAL CHECKS**

Is space free of drafting?

Comment:

Is space comfortable in all areas?

Comment:

Is the space free of ventilation noise?

Comment:

**HOOD CAPTURE TEST**

List kitchen equipment turned on for testing

Comment:

List smoke candle type used

Comment:

Smoke test capture % - Perimeter of hood

Comment:

Smoke test capture % - Top of cooking surface

**Comment:**

---

**WITNESS**

---

**Date test was completed**

---

**Comment:**

---

**TAB tech name / Firm**

---

**Comment:**

---

**Site super name / Firm**

---

**Comment:**

---

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

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**Comment:**

---

**BUILDING PRESSURE**

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**Building pressure at all doors:**

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**Comment:**

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

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**Comment:**

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# National TAB

Project: 09-29-25 Wendy's Jacksonville,FL

System/Unit: AHU/RTU



Asset: RTU1

AREA:KITCHEN

Unit Data		
	Design	Actual
MFG	UNKNOWN	TRANE
Serial Num	-	162510085D
Model Num	UNKNOWN	TSD150F3RNA0BD
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	47"x14.5"
Num Final Filter 1	-	2
Final Filter Size 1	-	69"x19.25"
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	-	3
Motor Rpm	-	1725
Phase	-	3
Rated Voltage	-	208-230
Rated Amperage	-	0.4-9.2

Drive Data	
	Actual
Motor Sheave Size	VP44
Motor Bore Size	7/8"
Motor Sheave SetPt	2 TURNS
Fan Sheave Size	BK90
Fan Sheave Bore	1"
Belt CL Distance	21"
Num of Belts	1
Belt Size	BX61
Belt Alignment	GOOD

Test Data		
	Design	Actual
SF CFM	5000	
SF RPM	-	777
RA CFM	3750	
OA CFM	1250	1206
RL Voltage	-	210/211/212
RL Amperage	-	6.9/7.9/8.4
SF Rotation	-	CW
RA Damper Position	-	3.5"
Min OA Damper Position	-	1.0"
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	E

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.35"
Fan Suction SP	-	-0.49"
Fan Discharge SP	-	0.10"
Total ESP	-	
Fan Total SP	-	

General	
	Actual
Fan Rotation Correct	CORRECT
Unit Filters Clean	NO
Condensate Drain Installed	INSTALLED

# National TAB

Project:09-29-25 Wendy's Jacksonville,FL

## AHU/RTU



**Diffuser Supply (GRD)**

**RTU1/KITCHEN**

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	ORDERING	A	12"	400					-
SGRD2	ORDERING	A	12"	400					-
SGRD3	ORDERING	A	12"	400					-
SGRD4	KITCHEN	A	12"	400					-
SGRD5	KITCHEN	C	12"	300					-
SGRD6	KITCHEN	C	12"	300					-
SGRD7	KITCHEN	A	12"	400					-
SGRD8	KITCHEN	C	12"	300					-
SGRD9	BACK KITCHEN	B	8"	150					-
SGRD10	BACK KITCHEN	B	8"	150					-
SGRD11	KITCHEN	C	12"	300					-
SGRD12	KITCHEN	C	12"	300					-
SGRD13	KITCHEN	A	12"	400					-
SGRD14	KITCHEN	A	12"	400					-
SGRD15	BACK KITCHEN	A	12"	400					-
Total				5000		0	0	0	0%

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Project: 09-29-25 Wendy's Jacksonville, FL

## System/Unit: AHU/RTU



Asset: RTU2

AREA: DINING

Unit Data		
	Design	Actual
MFG	UNKNOWN	TRANE
Serial Num	-	221910205D
Model Num	UNKNOWN	TSD150G3R0C0000
Type	RTU	RTU
Configuration	VERTICAL	VERT
Num OA Filters 1	-	1
OA Filter Size 1	-	23.25"x18.25"
Num Final Filter 1	-	2
Final Filter Size 1	-	69"x19.25"

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	-	3
Motor Rpm	-	1725
Phase	-	3
Rated Voltage	-	208-230
Rated Amperage	-	9.4-9.2

Drive Data	
	Actual
Motor Sheave Size	VP44
Motor Bore Size	7/8"
Motor Sheave SetPt	3 TURNS
Fan Sheave Size	9"
Fan Sheave Bore	1"
Belt CL Distance	21"
Num of Belts	1
Belt Size	BX62
Belt Alignment	GOOD

Test Data		
	Design	Actual
SF CFM	5000	4974
SF RPM	-	1490
RA CFM	3850	3875
OA CFM	1150	1099
RL Voltage	-	211.4/207.4/208.5
RL Amperage	-	8.2/7.2/6.9
SF Rotation	-	CLOCKWISE
SF System SetPt	-	
RA Damper Position	-	
Min OA Damper Position	-	4.75"
Min OA Damper Type	-	MANUAL
OA Enthalpy Setpt	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.51"
Fan Suction SP	-	-0.77"
Fan Discharge SP	-	0.38"
Total ESP	-	0.89"
Fan Total SP	-	1.15"

General	
	Actual
Fan Rotation Correct	CORRECT
Unit Filters Clean	NO
Condensate Drain Installed	YES

Completed By: Jackson Gunnels on 10/02/2025

Notes:  
Filters loaded, removed for balancing.

Written By: Jackson Gunnels on 10/02/2025

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Project:09-29-25 Wendy's Jacksonville,FL

## AHU/RTU



**Diffuser Supply (GRD)**

**RTU2/DINING**

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	DINING	A	10"	350		244	282	327	93.4
SGRD2	DINING	A	10"	350		281	331	384	109.7
SGRD3	DINING	B	8"	150		156	135	157	104.7
SGRD4	DINING	A	10"	350		241	289	335	95.7
SGRD5	DINING	A	10"	350		263	297	344	98.3
SGRD6	DINING	A	10"	400		241	279	323	80.8
SGRD7	DINING	A	10"	350		220	262	303	86.6
SGRD8	RR	F	10"	150		315	139	161	107.3
SGRD9	RR	F	10"	150		266	130	151	100.7
SGRD10	DINING	B	8"	150		177	122	141	94.0
SGRD11	DINING	B	8"	150		179	137	159	106.0
SGRD12	DINING	A	10"	350		287	305	353	100.9
SGRD13	DINING	A	10"	350		325	311	361	103.1
SGRD14	DINING	A	10"	350		273	329	382	109.1
SGRD15	DINING	A	10"	350		315	311	361	103.1
SGRD16	DINING	A	10"	350		318	312	362	103.4
SGRD17	DINING	A	10"	350		287	320	370	105.7
Total				5000		4388	4291	4974	99.48%

Asset	Notes	Date	Written By
SGRD2	Unable to bring diffuser into design without restricting unit total.	10/01/2025	Jackson Gunnels
SGRD6	Unable to bring diffuser into design without restricting unit overall.	10/01/2025	Jackson Gunnels
SGRD7	Unable to bring diffuser into design without restricting unit overall.	10/01/2025	Jackson Gunnels

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Project: 09-29-25 Wendy's Jacksonville,FL

System/Unit: FAN - Exhaust



Asset: EF1

AREA:GRILL

Unit Data		
	Design	Actual
MFG	UNKNOWN	FLOAIRE
Model Num	UNKNOWN	DU85H
Serial Num	-	8186522
Type	-	CENTRIFUGAL
Configuration	-	UPBLAST

Motor Data		
	Design	Actual
Motor MFG	-	HSSA
Horsepower	-	0.75
Motor Rpm	-	1725
Phase	-	3
Voltage (rated)	-	208-230
Amperage (rated)	-	2.6-2.5
Service Factor	-	1.15

Test Data		
	Design	Actual
CFM	950	
Fan RPM	-	
Fan Rotation	-	CCW
Motor RPM	-	
System SetPt	-	25.1HZ
RL Voltage	-	210/211/212
RL Amperage	-	1.2A VFD
Total ESP	-	0.25
Fan Inlet SP	-	-0.25
Fan Discharge SP	-	ATM

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Project: 09-29-25 Wendy's Jacksonville,FL

System/Unit: FAN - Exhaust



Asset: EF2

AREA:FRYER

Unit Data		
	Design	Actual
MFG	UNKNOWN	NO LABEL
Model Num	UNKNOWN	NO LABEL
Serial Num	-	NO LABEL
Type	-	CENTRIFUGAL
Configuration	-	UPBLAST

Motor Data		
	Design	Actual
Motor MFG	-	CENTURY
Frame	-	56H
Horsepower	-	0.75
Motor Rpm	-	1725
Phase	-	3
Voltage (rated)	-	208-230/460
Amperage (rated)	-	2.5/1.25
Service Factor	-	1.25

Test Data		
	Design	Actual
CFM	1100	
Fan RPM	-	975
Fan Rotation	-	CCW
Motor RPM	-	1736
RL Voltage	-	210/211/210
RL Amperage	-	
Total ESP	-	-0.80
Fan Inlet SP	-	
Fan Discharge SP	-	ATM

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Project: 09-29-25 Wendy's Jacksonville,FL

System/Unit: FAN - Exhaust



Asset: EF3

AREA:RESTROOMS

Unit Data		
	Design	Actual
MFG	UNKNOWN	CAPTIVE AIRE
Model Num	UNKNOWN	DR12HFA
Serial Num	-	4987610
Type	-	CENTRIFUGAL
Configuration	-	DOWNBLAST

Motor Data		
	Design	Actual
Horsepower	-	0.25
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	2.9

Test Data		
	Design	Actual
CFM	300	
Fan RPM	-	710
Fan Rotation	-	CCW
Motor RPM	-	710
System SetPt	-	41%
RL Voltage	-	120
RL Amperage	-	0.3
Total ESP	-	-0.06
Fan Inlet SP	-	0.06
Fan Discharge SP	-	ATM

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Project:09-29-25 Wendy's Jacksonville,FL

## FAN - Exhaust



**Diffuser Ret/Exh (GRD)**

**EF3/RESTROOMS**

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1						315	148	148	-
EGRD2						290	160	160	-
Total				0		605	308	308	0%

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Project: 09-29-25 Wendy's Jacksonville,FL

## System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:GRILL

Unit Data		
	Design	Actual
MFG	HALTON	HALTON
Model Num	KVE	KVE
Job / Serial Num	-	127792-604
Type	TYPE I ISALND	TYPE I
Hood length	66"	66"
Hood Width	63"	63"

Test Data Exhaust		
	Design	Actual
Filter Type	KSA	KSA
Filter Size 1	20X13	20X13
Filter Qty 1	2	2
Riser SP	0.22"	-0.252"
CFM	950	

Cooking Equipment	
	Actual
Item 1	NONE
Item 2	NONE

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Project: 09-29-25 Wendy's Jacksonville,FL

## System/Unit: Kitchen Hood Type I



Asset: HD2

AREA:FRYER

### Unit Data

	Design	Actual
MFG	UNKNOWN	NO LABEL
Model Num	UNKNOWN	NO LABEL
Job / Serial Num	-	NO LABEL
Type	-	TYPE I
Hood length	-	31 3/4"
Hood Width	-	108"

### Test Data Exhaust

	Design	Actual
Filter Type	-	BAFFLE
Filter Size 1	-	17.5"x7.75"
Filter Qty 1	-	5
Filter AK factor size 1	-	1.2
Filters AK factor size 2	-	
Filter Total AK Area	-	5.65
Filter1 FPM	-	159
Filter2 FPM	-	158
Filter3 FPM	-	167
Filter4 FPM	-	204
Filter5 FPM	-	164
Filter6 FPM	-	
Filter7 FPM	-	
Filter8 FPM	-	
Filter9 FPM	-	
Filter10 FPM	-	
Filter11 FPM	-	
Filter12 FPM	-	
Filter Ave FPM(corr)	-	170
CFM	1100	963

### Cooking Equipment

	Actual
Item 1	GRILL
Item 2	FRYER