

Report By:

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Report: TAB Report
Function: Test, Adjust, & Balance
Date: 07/18/2025
Completed By: National TAB

PROJECT
07-07-25 WAWA #5453 OCALA, FL

US 301 & SE 52nd ST

OCALA, FL _____

Client

Wawa
260 West Baltimore Pike

Wawa, PA 19063

National TAB

Project: 07-07-25 WAWA #5453 OCALA, FL

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Project Summary

The summary below provides a quick understanding of our scope of work and general testing procedures. Enclosed in the report is further detail 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.

General Exhaust Fans w/ Grilles

The general exhaust fans were measured by reading each air device with a flow hood. The total airflow for each fan is equivalent to the sum of these readings. Fan speed was then adjusted so that the airflow was within tolerance of design. Each terminal device was balanced to within tolerance of the design volume using the installed volume dampers. Any equipment that fell outside of this tolerance is noted throughout the report.

Ceiling Exhaust Fans

The ceiling exhaust fans were measured using a flow hood. If speed adjustment was provided, the fan speed was adjusted to within design tolerance. Any equipment 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.

Issue List

- Diffusers 1-14, 1-15 - Low Flow
- EF-1 - High Flow
- RTU 3 - Smoke Alarm
- RTUs 1, 3 - Heat Function



07-07-25 WAWA #5453 OCALA, FL

Project Issue Information

Issue Name : Diffusers 1-14, 1-15 - Low Flow
Description : Supply diffusers 1-14 and 1-15 (rear vestibule, men’s restroom) are at 75% and 85% of design, respectively. Dampers are fully open. Flex was adjusted and shortened by MC to improve airflow slightly. Further balancing would hurt overall system performance. Recommend monitoring these spaces for comfort issues.
Created By : National TAB **Assigned To :** National TAB - Dan Hertenstein
Status : Open
Priority : High **Asset Tag :**
Originated Date : 07/13/2025 - Mark Johnson - National TAB

Project Issue File Details



07/13/2025



07-07-25 WAWA #5453 OCALA, FL

Project Issue Information

Issue Name : EF-1 - High Flow
Description : EF-1 is currently running at 913 CFM (114% design). Slowing the fan further causes the motor to overamp, except at extremely low speeds. All exhaust grilles are balanced proportionally to the high total. Recommend motor inspection and monitoring for comfort issues around the space.
Created By : National TAB **Assigned To :** National TAB - Dan Hertenstein
Status : Open
Priority : Medium **Asset Tag :**
Originated Date : 07/13/2025 - Mark Johnson - National TAB

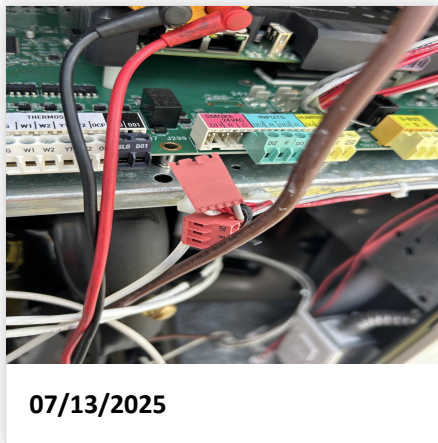
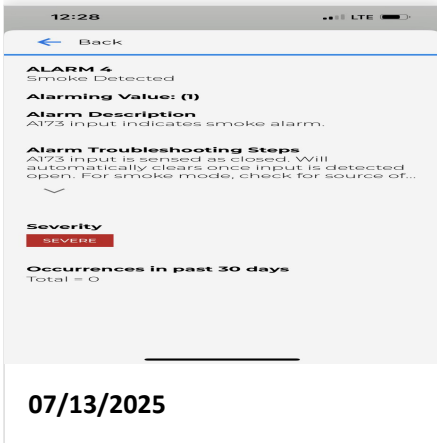


07-07-25 WAWA #5453 OCALA, FL

Project Issue Information

Issue Name : RTU 3 - Smoke Alarm
Description : RTU 3 was found to have its smoke detector plug disconnected. Connecting the plug immediately triggers a smoke alarm, locking out the unit. Recommend inspection.
Created By : National TAB **Assigned To :** National TAB - Dan Hertenstein
Status : Open
Priority : Urgent **Asset Tag :**
Originated Date : 07/13/2025 - Mark Johnson - National TAB

Project Issue File Details





07-07-25 WAWA #5453 OCALA, FL

Project Issue Information

Issue Name : RTUs 1, 3 - Heat Function
Description : In test mode, RTUs 1 and 3 will run heat, but struggle to heat above ambient space temperature. After 5 minutes of testing, the leaving air temperature matched the entering air temperature for both units. Recommend inspection.
Created By : National TAB **Assigned To :** National TAB - Dan Hertenstein
Status : Open
Priority : High **Asset Tag :**
Originated Date : 07/13/2025 - Mark Johnson - National TAB

AIR BALANCE SCHEDULE

UNIT	AREA SERVED	HVAC SUPPLY		HVAC RETURN		HVAC OUTDOOR		OA %		HOOD MAKE-UP		HOOD EXHAUST		GENERAL EXH.	
		DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
RTU-1	RETAIL	3400	3409	2900	2904	500	505	14.7%	14.8%						
RTU-2	FOOD SERVICE	5000	4997	4500	4501	500	496	10.0%	9.9%						
RTU-3	RETAIL	3000	3032	2700	2721	300	311	10.0%	10.3%						
EF-1	BOH													800	913
EF-32	WATER ROOM													60	57
TOTALS		11400	11438	10100	10126	1300	1312			0	0	0	0	860	970

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	1300	1312
TOTAL EXHAUST	860	970
NET AIRFLOW	440	342

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H2O)
FRONT	0.0085
SIDE	0.0072
REAR	0.0084
AVERAGE	0.008

FINAL CHECKS

- ACTUAL NET AIRFLOW COINCIDES WITH DESIGN: ✓

- MEASURED PRESSURES COINCIDES WITH ACTUAL NET AIRFLOW: ✓

- PRESSURE FALLS WITHIN IMC TOLERANCE OF +/-0.02" W.C. ✓

NOTES:

CheckList List

- 01: RTU's/AHU's 9/4
- 02: LENNOX SETUP PARAMETERS 9/4
- 03: SENSOR WIRING (LENNOX) 9/4
- 04: EF'S 9/4
- 05: CLOSEOUT CHECKS 9/4



07-07-25 WAWA #5453 OCALA, FL

CheckList Information

Name : 01: RTU's/AHU's 9/4 **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 07/07/2025 - Tara Metcalf - National TAB

Completed Date : 07/13/2025 - Mark Johnson - National TAB

CheckList Item Details

RTU's/AHU's

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

Comment:

Clean filters installed?	Pass
--------------------------	------

Comment:

Economizers are assembled and functional?	Pass
---	------

Comment:

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

Comment:

Are belts tight?	N/A
------------------	-----

Comment:

Direct Drive

If direct drive unit is the speed controller working?	Pass
---	------

Comment:

Is gas piping installed and valves turned on?	N/A
Comment: Electric Heat	
Condensate drains are installed?	Pass
Comment:	
Unit free of noticeable noise and vibration	Pass
Comment:	
Final outside air damper position is marked with permanent marker?	Pass
Comment:	
No alarms present?	Pass
Comment:	
Any noticeable duct leakage?	Pass
Comment:	
Total supply and OA flows are balanced within +/-5% and supply & return diffusers within +/-10%?	Fail
Comment: Supply diffusers 1-14 and 1-15 - 75% and 80% of design. All other diffusers and totals are within tolerance.	
IN TEST MODE, TEST THE FOLLOWING:	
Cooling mode is operational? Record EAT/LAT for each unit:	Pass
Comment: RTU 1: EAT=71°F, LAT=56°F // RTU 2: EAT=70°F, LAT=56°F // RTU 3: EAT=74°F, LAT=57°F	
Heating mode is operational? Record EAT/LAT for each unit:	Fail
Comment: RTU 1: EAT=76°F, LAT=76°F // RTU 2: N/A // RTU 3: EAT=75°F, LAT=75°F	
Dehumidification mode is operational? (Feel dehumidification coil with your hand. Is it hot?) Record EAT/LAT for each unit:	Pass

Comment:

RTU 1: EAT=73°F, LAT=69°F // RTU 2: EAT=75°F, LAT=74°F // RTU 3: EAT=75°F, LAT=71°F



07-07-25 WAWA #5453 OCALA, FL

CheckList Information

Name : 02: LENNOX SETUP PARAMETERS 9/4 **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 07/07/2025 - Tara Metcalf - National TAB
Completed Date : 07/13/2025 - Mark Johnson - National TAB

CheckList Item Details

UNIT ID CONFIGURATIONS

BACNET CONFIGURATION: GO TO SETTINGS>GENERAL>CONFIGURATION ID1 POSITION 5 SET TO "N". Pass

Comment:

NETWORK CONFIGURATION: GO TO SETUP>NETWORK INTEGRATION, SET TO BACNET IP Pass

Comment:

CONTROL MODE: SET CONTROL MODE TO ROOM SENSOR: CO2, TEMP & HUMIDITY (PER UNIT, AS NEEDED). Pass

Comment:

INDIVIDUAL PARAMETER CONFIGURATIONS (MECHANICAL CONTRACTOR TO DEFINE / AS APPLICABLE):

PARAMETER 105 DEHUMID MODE: 7 NO CONDITIONS Pass

Comment:

PARAMETER 106 DEHUMID SETPOINT: 50, THIS IS A CENTERED SET POINT (+/-) Yes

Comment:

PARAMETER 107 DEHUMID DEADBAND: 3 (DEFAULT) THIS IS THE ACTUAL +/- VALUE Pass

Comment:

PARAMETER 117 CO2 DAMPER MAX OPEN: 50%

Pass

Comment:

PARAMETER 118 CO2 START OPEN PPM: 1500

Pass

Comment:

Set to 1200 per MSET

PARAMETER 119 CO2 MAX OPEN PPM: 1500

Pass

Comment:

PARAMETER 137 OCCHET SET POINT: 68 (BACK UP)

Pass

Comment:

PARAMETER 131 SET TO THE SAME % AS THE MINMIUM OA DAMPER SETPOINT

Pass

Comment:

PARAMETER 139 OCC COOLING SET POINT: 72 (BACK UP)

Pass

Comment:

PARAMETER 154 OCC BLOWER MODE: ON-CONTINUOUS 1

Pass

Comment:

CFM VALUES / MSAV FAN SPEEDS (AIR BALANCER TO DEFINE / IF APPLICABLE):

OA DAMPER SET TO SAME POSITION IN ALL FAN SPEEDS?

Pass

Comment:

ALL FAN SPEEDS SET TO THE SAME CFM VALUE (ENTER SETPOINTS BELOW)

Pass

Comment:

RTU 1: 61% // RTU 2: 89% // RTU 3: 60%

HEAT CFM VALUE: PER THE HVAC SCHEDULE

Pass

Comment:

HIGH COOL CFM VALUE: THE HIGH COOL CFM VALUE

Pass

Comment:

LOW COOL CFM VALUE: MATCH THE HIGH COOL CFM VALUE

Pass

Comment:

VENTILATION CFM VALUE: MATCH THE HIGH COOL CFM VALUE

Pass

Comment:



07-07-25 WAWA #5453 OCALA, FL

CheckList Information

Name : 03: SENSOR WIRING (LENNOX) 9/4 **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 07/07/2025 - Tara Metcalf - National TAB

Completed Date : 07/13/2025 - Mark Johnson - National TAB

CheckList Item Details

COMBINATION TEMPERATURE/HUMIDITY SENSOR

Sensors are installed where shown on the drawing? Pass

Comment:

2 conductor shielded cable has one wire landed to Vin, one to GND, and the shield wire is not connected. Pass

Comment:

For second shielded cable, one wire is landed to Vout and the shield wire is not connected. Pass

Comment:

Verify that the CORE or Prodigy controller is sensing a relative humidity (record the reading) Pass

Comment:

RTU 1: 52% // RTU 2: 62% // RTU 3: 57%



07-07-25 WAWA #5453 OCALA, FL

CheckList Information

Name : 04: EF'S 9/4 **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 07/07/2025 - Tara Metcalf - National TAB

Completed Date : 07/13/2025 - Mark Johnson - National TAB

CheckList Item Details

EF's

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

Comment:

Belts are tight (if applicable)?	N/A
---	-----

Comment:

Direct Drive

Speed controller installed and functional (if applicable)?	Pass
---	------

Comment:

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

Comment:

Is the motor operating below the motor FLA rating?	Pass
---	------

Comment:

Back draft damper installed and can it fully open?	Pass
---	------

Comment:

Unit free of noticeable noise and vibration?

Pass

Comment:

Total exhaust flow balanced within +/-5% and grilles are within +/-10%?

Fail

Comment:

EF-1 total flow = +14% design. All grilles are balanced proportionally to the high total.



07-07-25 WAWA #5453 OCALA, FL

CheckList Information

Name : 05: CLOSEOUT CHECKS 9/4 **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 07/07/2025 - Tara Metcalf - National TAB

Completed Date : 07/13/2025 - Mark Johnson - National TAB

CheckList Item Details

SPACE COMFORT

Is space free of drafting? Pass

Comment:

Is space comfortable in all areas? Pass

Comment:

Is the space free of ventilation noise? Pass

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: 07-07-25 WAWA #5453 OCALA, FL

System/Unit: AHU/RTU

Asset: RTU1

AREA:RETAIL

Unit Data		
	Design	Actual
MFG	LENNOX ENLIGHT	LENNOX ENLIGHT
Serial Num	-	5624J04435
Model Num	LCT102H4E	LCT102H4EG1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	23x14
Num Final Filter 1	-	4
Final Filter Size 1	-	20x25x2

Motor Data		
	Design	Actual
Motor MFG	-	EBMPAPST
Frame	-	N/A
Horsepower	3.75	3.8
Motor Rpm	-	2200
Phase	3	3
Rated Voltage	207	200-240
Rated Amperage	-	8.7
Service Factor	-	N/A

Drive Data	
	Actual
Motor Sheave Size	DD
Motor Bore Size	DD
Motor Sheave SetPt	DD
Fan Sheave Size	DD
Fan Sheave Bore	DD
Belt CL Distance	DD
Num of Belts	DD
Belt Size	DD

Test Data		
	Design	Actual
SF CFM	3400	3409
SF RPM	-	1342
MOTOR RPM	-	1342
RA CFM	2900	2904
OA CFM	500	505
RL Voltage	-	212/213/213
RL Amperage	-	2.7/2.7/2.6
SF System SetPt	-	61%
OA Damper Position	-	42%
OA Damper Type	-	SINGLE BLADE

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.31"
Fan Suction SP	-	-0.59"
Fan Discharge SP	-	0.31"
Total ESP	.50"	0.62"
Fan Total SP	-	0.90"

Completed By: Mark Johnson on 07/11/2025

Unit Data - PHOTO LOG



07/07/2025



National TAB

Project:07-07-25 WAWA #5453 OCALA, FL

AHU/RTU

Diffuser Supply (GRD)

RTU1/RETAIL

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	RETAIL	LD1	10"	300	1	535	357	295	98.3
SGRD2	RETAIL	LD1	10"	300	1	139	334	304	101.3
SGRD3	RETAIL	LD1	10"	300	1	442	308	324	108.0
SGRD4	OFFICE	CD1	8"	150	1	289	208	153	102.0
SGRD5	ASSOCIATES	CD1	8"	150	1	221	164	150	100.0
SGRD6	RETAIL	LD1	10"	300	1	454	337	308	102.7
SGRD7	RETAIL	LD1	10"	310	1	115	197	319	102.9
SGRD8	RETAIL	LD1	10"	310	1	541	420	331	106.8
SGRD9	RETAIL	LD1	10"	285	1	419	303	280	98.2
SGRD10	DELIVERY VESTIBLE	CD1	8"	200	1	65	190	201	100.5
SGRD11	RETAIL	LD1	10"	285	1	444	312	281	98.6
SGRD12	RETAIL	LD1	10"	285	1	335	260	277	97.2
SGRD13	WOMENS RR	CD3	6"	50	1	75	64	51	102.0
SGRD14	REAR VESTIBLE	CD3	6"	100	1	89	57	75	75.0
SGRD15	MENS RR	CD3	6"	75	1	81	70	60	80.0
Total				3400		4244	3581	3409	100.26%



National TAB

Project: 07-07-25 WAWA #5453 OCALA, FL

System/Unit: AHU/RTU

Asset: RTU2

AREA:FOOD SERVICE

Unit Data		
	Design	Actual
MFG	LENNOX ENLIGHT	LENNOX ENLIGHT
Serial Num	-	5624J04436
Model Num	LCT150H4E	LCT150H4EN1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	23x14
Num Final Filter 1	-	4
Final Filter Size 1	-	20x25x2

Motor Data		
	Design	Actual
Motor MFG	-	EBMPAPST
Frame	-	N/A
Horsepower	3.75	3.8
Motor Rpm	-	2200
Phase	3	3
Rated Voltage	208	200-240
Rated Amperage	-	8.7
Service Factor	-	N/A

Drive Data	
	Actual
Motor Sheave Size	DD
Motor Bore Size	DD
Motor Sheave SetPt	DD
Fan Sheave Size	DD
Fan Sheave Bore	DD
Belt CL Distance	DD
Num of Belts	DD
Belt Size	DD

Test Data		
	Design	Actual
SF CFM	5000	4997
SF RPM	-	1958
MOTOR RPM	-	1958
RA CFM	4500	4501
OA CFM	500	496
RL Voltage	-	213/212/213
RL Amperage	-	6.6/6.5/6.5
SF System SetPt	-	89%
OA Damper Position	-	37%
OA Damper Type	-	SINGLE BLADE

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.58"
Fan Suction SP	-	-1.19"
Fan Discharge SP	-	0.42"
Total ESP	.50"	1.00"
Fan Total SP	-	1.61"

Completed By: Mark Johnson on 07/11/2025

Unit Data - PHOTO LOG



07/07/2025



National TAB

Project:07-07-25 WAWA #5453 OCALA, FL

AHU/RTU

Diffuser Supply (GRD)

RTU2/FOOD SERVICE

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	STAGING	CD1	6"	75	1	131	125	81	108.0
SGRD2	ELECTRICAL ROOM	CD1	12"	550	1	521	496	584	106.2
SGRD3	BACKROOM	CD1	12"	500	1	583	514	485	97.0
SGRD4	BACKROOM	CD1	10"	375	1	88	367	384	102.4
SGRD5	FOOD SERVICE	CD1	12"	500	1	425	402	467	93.4
SGRD6	FOOD SERV 2	LD1	12"	500	1	589	584	506	101.2
SGRD7	FOOD SERV2	LD1	12"	500	1	343	301	452	90.4
SGRD8	FOOD SERV2	LD1	12"	500	1	546	556	516	103.2
SGRD9	FOOD SERV2	LD1	12"	500	1	530	549	478	95.6
SGRD10	FOOD SERV2	LD1	12"	500	1	400	389	539	107.8
SGRD11	FOOD SERV2	LD1	12"	500	1	381	687	505	101.0
Total				5000		4537	4970	4997	99.94%

Diffuser Ret/Exh (GRD)

RTU2/FOOD SERVICE

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	BACKROOM	G1	14"	900	1.134	1259	949	949	105.4
EGRD2	FOOD SERV 2	G1	14"	900	1.134	1061	838	838	93.1
EGRD3	FOOD SERV 2	G1	14"	900	1.134	123	955	955	106.1
EGRD4	FOOD SERV 2	G1	14"	900	1.134	709	947	947	105.2
EGRD5	RETAIL	G1	14"	900	1.134	1350	954	954	106.0
Total				4500		4502	4643	4643	103.18%



National TAB

Project: 07-07-25 WAWA #5453 OCALA, FL

System/Unit: AHU/RTU

Asset: RTU3

AREA:RETAIL

Unit Data		
	Design	Actual
MFG	LENNOX ENLIGHT	LENNOX ENLIGHT
Serial Num	-	5624J02960
Model Num	LCT092H4E	LCT092H4EG1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	23x14
Num Final Filter 1	-	4
Final Filter Size 1	-	20x25x2

Motor Data		
	Design	Actual
Motor MFG	-	EBMPAPST
Frame	-	N/A
Horsepower	3.75	3.8
Motor Rpm	-	2200
Phase	3	3
Rated Voltage	208	200-240
Rated Amperage	-	8.7
Service Factor	-	N/A

Drive Data	
	Actual
Motor Sheave Size	DD
Motor Bore Size	DD
Motor Sheave SetPt	DD
Fan Sheave Size	DD
Fan Sheave Bore	DD
Belt CL Distance	DD
Num of Belts	DD
Belt Size	DD

Test Data		
	Design	Actual
SF CFM	3000	3032
SF RPM	-	1320
MOTOR RPM	-	1320
RA CFM	2700	2721
OA CFM	300	311
RL Voltage	-	212/213/212
RL Amperage	-	2.6/2.5/2.5
SF System SetPt	-	60%
OA Damper Position	-	32%
OA Damper Type	-	SINGLE BLADE

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.41"
Fan Suction SP	-	-0.66"
Fan Discharge SP	-	0.42"
Total ESP	.50"	0.83"
Fan Total SP	-	1.08"

Completed By: Mark Johnson on 07/11/2025



National TAB

Project:07-07-25 WAWA #5453 OCALA, FL

AHU/RTU

Diffuser Supply (GRD)

RTU3/RETAIL

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	FRONT VESTIBLE	CD2	12"	500	1	706	623	510	102.0
SGRD2	RETAIL	LD1	10"	350	1	113	100	336	96.0
SGRD3	RETAIL	LD1	10"	300	1	468	413	313	104.3
SGRD4	COFFEE/SPEC	LD1	10"	300	1	362	319	326	108.7
SGRD5	COFFEE/SP	LD1	10"	300	1	471	416	289	96.3
SGRD6	RETAIL	LD1	10"	300	1	361	319	304	101.3
SGRD7	RETAIL	LD1	10"	300	1	203	179	280	93.3
SGRD8	RETAIL	LD1	10"	300	1	399	352	320	106.7
SGRD9	RETAIL	LD1	10"	350	1	417	368	354	101.1
Total				3000		3500	3089	3032	101.07%



National TAB

Project: 07-07-25 WAWA #5453 OCALA, FL

System/Unit: FAN - Exhaust

Asset: EF1

AREA:BACK OF HOUSE

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	G-120	G-120-B-6-1-19-X
Serial Num	-	27049718
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	N/A
Frame	-	48Y
Horsepower	1/4	1/6
Motor Rpm	-	1140
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	2.2
Service Factor	-	1.00

Test Data		
	Design	Actual
CFM	800	913
Fan RPM	863	DD
Fan Rotation	-	CW
Motor RPM	-	DD
System SetPt	-	SPEED CONTROLLER (MARKED)
RL Voltage	-	112
RL Amperage	-	2.1
Total ESP	.250"	0.33"
Fan Inlet SP	-	-0.33"
Fan Discharge SP	-	ATM

Completed By: Mark Johnson on 07/11/2025

Notes:
Fan cannot be slowed further without overramping motor.

Written By: Mark Johnson on 07/11/2025

Unit Data - PHOTO LOG



07/07/2025



National TAB

Project:07-07-25 WAWA #5453 OCALA, FL

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF1/BACK OF HOUSE

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	WOMENS RR	G3	6"	100	1	69	83	117	117.0
EGRD2	MENS RR	G3	6"	50	1	82	112	55	110.0
EGRD3	WASHROOM	G1	6"	100	1	175	138	114	114.0
EGRD4	FOOD SERVICE	G1	8"	150	1	241	187	170	113.3
EGRD5	FOOD SERV. 2	G1	8"	150	1	152	195	177	118.0
EGRD6	FOOD SERV. 2	G1	6"	150	1	193	184	167	111.3
EGRD7	FOOD SERV. 2	G3	18"	100	1	80	76	113	113.0
Total				800		992	975	913	114.13%



National TAB

Project: 07-07-25 WAWA #5453 OCALA, FL

System/Unit: FAN - Exhaust

Asset: EF2

AREA:WATER ROOM

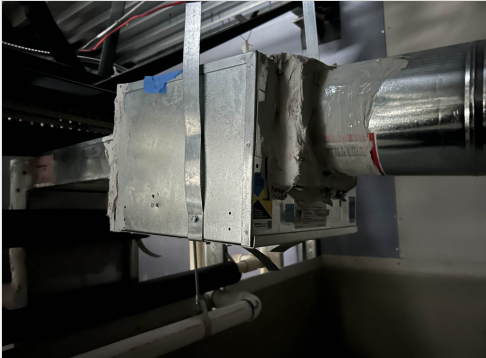
Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	CSP-B110	CSP-A110-QD
Serial Num	-	26942512
Type	INLINE	INLINE
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
CFM	60	57
Fan RPM	584	950
Fan Rotation	-	CORRECT
Motor RPM	-	950
System SetPt	-	MAX
RL Voltage	-	124
RL Amperage	-	0.2

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Frame	-	N/A
Horsepower	-	N/A
Motor Rpm	-	950
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	0.19
Service Factor	-	N/A

Completed By: Mark Johnson on 07/11/2025

Unit Data - PHOTO LOG



07/07/2025

