Report By:

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

Report: TAB Report

Function: Test, Adjust, & Balance

Date: 01/31/2025

Completed By: National TAB

PROJECT

01-20-25 WAWA #6108 GOLDSBORO, NC

2853 W US 70 HWY

GOLDBORO, NC 27530

Client

Wawa

260 West Baltimore Pike

Wawa, PA 19063

National TAB

Project: 01-20-25 WAWA #6108 GOLDSBORO, NC

Table Of Contents

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

- Building Pressure
- EF-2 Low Flow / Limited Access
- EF-3 High Flow / Speed Controller Issue
- Humidity Sensors Not Installed
- RTU Alarms

01-20-25 WAWA #6108 GOLDSBORO, NC

Project Issue Information

Issue Name : Building Pressure

Description : The building pressure cannot be accurately measured due to the rear door being off its hinges and damaged.

Created By :	National TAB	**Assigned To :**	National TAB - Will Turnbough
Status :	Open		
Priority :	Medium	**Asset Tag :**	HVAC EQUIPMENT1
Originated Date :	01/21/2025 - Jearod Ferrette - National TAB		

Project Issue File Details

01/21/2025

01-20-25 WAWA #6108 GOLDSBORO, NC

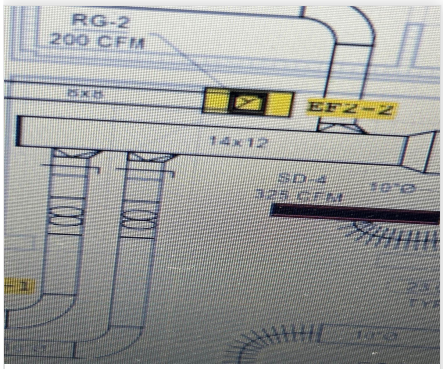
Project Issue Information

Issue Name : EF-2 Low Flow / Limited Access

Description : The fan is exhausting 308CFM out of 400CFM design (77%). One of the damper handles is situated above the hard ceiling. The ductwork lacks proper support, resulting in sagging and pinching into two hard 90-degree bends. Accessible dampers will need to be added as well as straightening the flex duct in order to balance the fan to design airflow.

Created By :	National TAB	**Assigned To :**	National TAB - Will Turnbough
Status :	Open		
Priority :	Urgent	**Asset Tag :**	EF2
Originated Date :	01/21/2025 - Jearod Ferrette - National TAB		

Project Issue File Details



01/21/2025

01/21/2025

01-20-25 WAWA #6108 GOLDSBORO, NC

Project Issue Information

Issue Name : EF-3 High Flow / Speed Controller Issue

Description : EF-3 is currently exhausting 246CFM out of 200CFM design (123%). The installed speed controller has 4 speed setpoints, none of which set the fan within design. Recommend installing a speed controller that does not lock into individual setpoints and then rebalancing.

Created By : National TAB

Assigned To : National TAB - Will Turnbough

Status : Open

Priority : Urgent

Asset Tag :

Originated Date : 02/05/2025 - Stephen Tassinaro - National TAB

Project Issue File Details

02/05/2025

01-20-25 WAWA #6108 GOLDSBORO, NC

Project Issue Information

Issue Name :	Humidity Sensors Not Installed		
Description :	The humidity sensors were not installed while NTi was on site.		
Created By :	National TAB	**Assigned To :**	National TAB - Will Turnbough
Status :	Open		
Priority :	High	**Asset Tag :**	
Originated Date :	02/05/2025 - Stephen Tassinaro - National TAB		

01-20-25 WAWA #6108 GOLDSBORO, NC

Project Issue Information

Issue Name :	RTU Alarms		
Description :	RTU-1 ALARM 77 (DISCHARGE AIR TEMP SENSOR) / RTU-2 ALARM 75 (OUTDOOR TEMP SENSOR)		
Created By :	National TAB	**Assigned To :**	National TAB - Will Turnbough
Status :	Open		
Priority :	Medium	**Asset Tag :**	
Originated Date :	02/05/2025 - Stephen Tassinaro - National TAB		

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	BOH	3600	3701	2900	2965	700	736	19.4%	19.9%						
RTU-2	SALES	3250	3236	2870	2864	380	372	11.7%	11.5%						
RTU-3	FOH	2000	2135	1800	1903	200	232	10.0%	10.9%						
EF-1	RESTROOMS													375	373
EF-2	BOH													400	308
EF-3	TRASHROOM													200	246
TOTALS		8850	9072	7570	7732	1280	1340			0	0	0	0	975	927

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	1280	1340
TOTAL EXHAUST	975	927
NET AIRFLOW	305	413

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H20)
FRONT	
SIDE	
REAR	
AVERAGE	**#DIV/0!**

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
- 02: LENNOX SETUP PARAMETERS
- 03: SENSOR WIRING (LENNOX
- 04: EF'S
- 05: CLOSEOUT CHECKS

01-20-25 WAWA #6108 GOLDSBORO, NC

CheckList Information

Name : 01: RTU's/AHU's **Status :** Not Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 01/16/2025 - Brianna Biggs - 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: N/A - DD	
If direct drive unit is the speed controller working?	Pass
Comment:	
Is gas piping installed and valves turned on?	Pass

Comment:	
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?	Fail
Comment: RTU-1 ALARM 77 (DISCHARGE AIR TEMP SENSOR) / RTU-2 ALARM 75 (OUTDOOR TEMP SENSOR)	
Any noticeable duct leakage?	Pass
Comment:	
Total supply and OA flows are balanced within +/-5% and supply & return diffusers within +/-10%?	Fail
Comment:	
IN TEST MODE, TEST THE FOLLOWING:	
Cooling mode is operational? Record EAT/LAT for each unit:	Pass
Comment: RTU-1: EAT:62F, LAT: 54F / RTU-2 EAT:62F, LAT 54F / RTU-3 EAT 62F, LAT 52F	
Heating mode is operational? Record EAT/LAT for each unit:	Pass
Comment: RTU-1: EAT:64F, LAT: 101F / RTU-2 EAT:64F, LAT 103F / RTU-3 EAT 64F, LAT 99F	
Dehumidification mode is operational? (Feel dehumidification coil with your hand. Is it hot?) Record EAT/LAT for each unit:	Pass
Comment: RTU-1: EAT:64F, LAT: 66F / RTU-2 EAT:65F, LAT 66F / RTU-3 EAT 65F, LAT 68F	

01-20-25 WAWA #6108 GOLDSBORO, NC

CheckList Information

Name :	02: LENNOX SETUP PARAMETERS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	01/16/2025 - Brianna Biggs - National TAB		
Completed Date :	01/21/2025 - Jearod Ferrette - 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	Fail
Comment: ALL RTU'S- BACKNET NOT ISNTALLED. SETTINGS ONLY ALLOW WIRE THERMOSTAT OPTION	

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:

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 50% RTU-2 43% RTU-3 67%

HEAT CFM VALUE: PER THE HVAC SCHEDULE	N/A

Comment:

HIGH COOL CFM VALUE: THE HIGH COOL CFM VALUE	N/A
Comment:	
LOW COOL CFM VALUE: MATCH THE HIGH COOL CFM VALUE	N/A
Comment:	
VENTILATION CFM VALUE: MATCH THE HIGH COOL CFM VALUE	N/A
Comment:	

01-20-25 WAWA #6108 GOLDSBORO, NC

CheckList Information

Name :	03: SENSOR WIRING (LENNOX	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	01/16/2025 - Brianna Biggs - National TAB		

CheckList Item Details

COMBINATION TEMPERATURE/HUMIDITY SENSOR

Sensors are installed where shown on the drawing?	Fail
Comment: SENSORS WERE NOT INSTALLED WHILE NTI WAS ON SITE	
2 conductor shielded cable has one wire landed to Vin, one to GND, and the shield wire is not connected.	Fail
Comment: -	
For second shielded cable, one wire is landed to Vout and the shield wire is not connected.	Fail
Comment: -	
Verify that the CORE or Prodigy controller is sensing a relative humidity (record the reading)	Fail
Comment: -	

01-20-25 WAWA #6108 GOLDSBORO, NC

CheckList Information

Name : 04: EF'S **Status :** Not Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 01/16/2025 - Brianna Biggs - National TAB

CheckList Item Details

EF's

Rotation is correct?	Pass
Comment:	
Belts are tight (if applicable)?	Pass
Comment:	
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-2 CURRENTLY AT 77% - SEE ISSUES / EF-3 CURRENTLY AT 123% - SEE ISSUES	

01-20-25 WAWA #6108 GOLDSBORO, NC

CheckList Information

Name :	05: CLOSEOUT CHECKS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	01/16/2025 - Brianna Biggs - National TAB		
Completed Date :	01/22/2025 - Jearod Ferrette - 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)	Fail
Comment:	

Unable to get accurate read. See issue

01/21/2025

National TAB

Project: 01-20-25 WAWA #6108 GOLDSBORO, NC

System/Unit: AHU/RTU

Asset: RTU1 AREA:BACK OF HOUSE

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5424K0121
Model Num	LGT120H4E	LGT120H4E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14X24
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	3.75	3.75
Motor Rpm	NL	NL
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	NL

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
Belt Alignment	DD

Test Data		
	Design	**Actual**
SF CFM	3600	3701
SF RPM	-	DD/50%
RA CFM	2900	2965
OA CFM	700	736
RL Voltage	-	215/216/215
RL Amperage	-	5.9/5.9/5.8
SF Rotation	-	CCW
SF System SetPt	-	50%
Min OA Damper Position	-	33%
Min OA Damper Type	-	OBD

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.35"
Fan Suction SP	-	-0.55"
Fan Discharge SP	-	0.46"
Total ESP	0.70"	0.90"
Fan Total SP	-	1.01"

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

Completed By: Jearod Ferrette on 01/21/2025

Unit Data - PHOTO LOG

01/21/2025

National TAB

Project:01-20-25 WAWA #6108 GOLDSBORO, NC

AHU/RTU

Diffuser Supply (GRD)

RTU1/BACK OF HOUSE

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	COFFEE	SD4	10"	300	1	397	229	309	103.0
SGRD2	FOOD SERVICE	SD4	10"	300	1	628	390	306	102.0
SGRD3	FOOD SERVICE	SD4	10"	300	1	577	370	308	102.7
SGRD4	FOOD SERVICE	SD4	10"	300	1	636	397	311	103.7
SGRD5	FOOD SERVICE	SD4	10"	300	1	572	354	309	103.0
SGRD6	FOOD SERVICE	SD4	10"	300	1	633	389	309	103.0
SGRD7	FOOD SERVICE	SD4	10"	300	1	526	324	310	103.3
SGRD8	BACK OF HOUSE	SD4	10"	325	1	609	373	333	102.5
SGRD9	BACK OF HOUSE	SD4	10"	325	1	506	312	335	103.1
SGRD10	BACK OF HOUSE	SD4	10"	325	1	458	193	327	100.6
SGRD11	TRASH/STAGING	SD1	8"	200	1	192	107	205	102.5
SGRD12	ELECTRICAL ROOM	SD1	10"	325	1	481	300	339	104.3
Total				3600		6215	3738	3701	102.81%

Diffuser Ret/Exh (GRD)

RTU1/BACK OF HOUSE

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	FOOD SERVICE	RG1	14X14	900	1	603	890	890	98.9
EGRD2	FOOD SERVICE	RG1	14X14	900	1	606	900	900	100.0
EGRD3	WASHROOM	RG1	14X14	1100	1	620	1098	1098	99.8
Total				2900		1829	2888	2888	99.59%

Completed By: Jearod Ferrette on 01/21/2025

National TAB

Project: 01-20-25 WAWA #6108 GOLDSBORO, NC

System/Unit: AHU/RTU

Asset: RTU2 AREA:SALES

Unit Data		
	Design	**Actual**
MFG	LENNOX ENLIGHT	LENNOX
Serial Num	-	5624J03610
Model Num	LGT120H4E	LGT120H4E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14X24
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	3.75	3.75
Motor Rpm	NL	NL
Phase	3	3
Rated Voltage	208	208
Rated Amperage	NL	NL
Service Factor	-	NL

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	3250	3236
SF RPM	-	DD/43%
RA CFM	2870	2864
OA CFM	380	372
RL Voltage	-	215/216/215
RL Amperage	-	2.3/2.4/2.3
SF System SetPt	-	43%
OA Damper Position	-	27%
OA Damper Type	-	OBD

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.41"
Fan Suction SP	-	-0.62"
Fan Discharge SP	-	0.38"
Total ESP	1.00"	0.79"
Fan Total SP	-	1.00"

Completed By: Jearod Ferrette on 01/21/2025

Unit Data - PHOTO LOG

01/21/2025

National TAB

Project:01-20-25 WAWA #6108 GOLDSBORO, NC

AHU/RTU

Diffuser Supply (GRD)

RTU2/SALES

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	RETAIL	SD2	19X4	275	0.39	406	291	273	99.3
SGRD2	RETAIL	SD2	19X4	275	0.39	397	341	279	101.5
SGRD3	RETAIL	SD2	19X4	275	0.39	403	333	274	99.6
SGRD4	RETAIL	SD2	19X4	300	0.39	462	359	306	102.0
SGRD5	RETAIL	SD2	19X4	275	0.39	405	328	278	101.1
SGRD6	RETAIL	SD2	19X4	300	0.39	243	279	297	99.0
SGRD7	RETAIL	SD2	19X4	300	0.39	409	338	328	109.3
SGRD8	RETAIL	SD2	19X4	275	0.39	379	308	251	91.3
SGRD9	RETAIL	SD2	19X4	275	0.39	418	297	259	94.2
SGRD10	HALLWAY	SD1	8"	125	1	180	136	121	96.8
SGRD11	DELIVERY ROOM	SD1	8"	200	1	152	113	198	99.0
SGRD12	WOMENS RR	SD5	8"	75	1	136	106	74	98.7
SGRD13	MENS RR	SD5	8"	150	1	100	74	147	98.0
SGRD14	REAR VESTIBULE	SD5	8"	150	1	112	74	151	100.7
Total				3250		4202	3377	3236	99.57%

Completed By: Jearod Ferrette on 01/21/2025

National TAB

Project: 01-20-25 WAWA #6108 GOLDSBORO, NC

System/Unit: AHU/RTU

Asset: RTU3 AREA:FRONT OF HOUSE

Unit Data		
	Design	**Actual**
MFG	LENNOX ENLIGHT	LENNOX
Serial Num	-	5624K01022
Model Num	LGT060H4E	LGT060H4E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	14.5X28.25
Num Final Filter 1	-	4
Final Filter Size 1	-	20X20X2

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	1	1
Motor Rpm	NL	NL
Phase	3	3
Rated Voltage	208	208
Rated Amperage	NL	NL
Service Factor	-	NL

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	2000	2135
SF RPM	-	DD/67%
MOTOR RPM	-	DD/67%
RA CFM	1800	1903
OA CFM	200	232
RL Voltage	-	214/215/214
RL Amperage	-	3.3/3.3/3.2
SF System SetPt	-	67%
RA Damper Type	-	OBD
OA Damper Position	-	19%
OA Damper Type	-	ECON

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.30"
Fan Suction SP	-	-0.43"
Fan Discharge SP	-	0.70"
Total ESP	0.50"	1.01"
Fan Total SP	-	1.14"

Completed By: Jearod Ferrette on 01/21/2025

Unit Data - PHOTO LOG

01/21/2025

National TAB

Project:01-20-25 WAWA #6108 GOLDSBORO, NC

AHU/RTU

Diffuser Supply (GRD)

RTU3/FRONT OF HOUSE

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	VESTIBULE	SD5	8"	200	1	242	222	216	108.0
SGRD2	RETAIL	SD2	19X4	375	0.39	348	338	399	106.4
SGRD3	RETAIL	SD2	19X4	375	0.39	391	381	397	105.9
SGRD4	RETAIL	SD2	19X4	375	0.39	363	353	397	105.9
SGRD5	RETAIL	SD2	19X4	375	0.39	415	409	399	106.4
SGRD6	ASSOCIATES AREA	SD1	8"	150	1	210	207	163	108.7
SGRD7	OFFICE	SD1	8"	150	1	263	279	164	109.3
Total				2000		2232	2189	2135	106.75%

National TAB

Project: 01-20-25 WAWA #6108 GOLDSBORO, NC

System/Unit: FAN - Exhaust

Asset: EF1 AREA:RESTROOMS

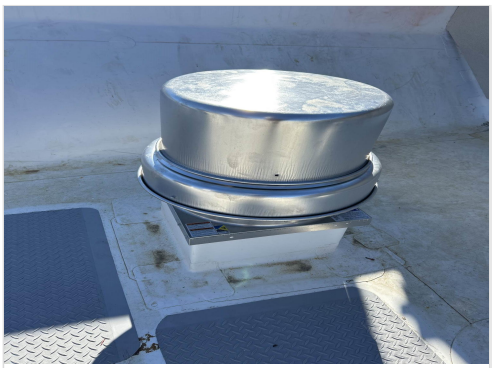
Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	GB-098-6	GB-098-6
Serial Num	-	25400577
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	US MOTOR
Frame	-	N/L
Horsepower	1/6	1/6
Motor Rpm	1725	1725
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	3.8
Service Factor	-	1.35

Test Data		
	Design	**Actual**
CFM	375	373
Fan RPM	-	1118
Fan Rotation	-	CCW
Motor RPM	-	1762
System SetPt	-	2 TURNS OUT
RL Voltage	115	115
RL Amperage	3.8	NA
Total ESP	-	0.23"
Fan Inlet SP	-	-0.23"
Fan Discharge SP	-	ATMO

Completed By: Jearod Ferrette on 01/21/2025

Unit Data - PHOTO LOG



01/21/2025

National TAB

Project:01-20-25 WAWA #6108 GOLDSBORO, NC

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF1/RESTROOMS

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	WOMENS RR	EG1	8X8	150	1	198	130	147	98.0
EGRD2	MENS RR	EG1	8X8	225	1	175	240	226	100.4
Total				375		373	370	373	99.47%

National TAB

Project: 01-20-25 WAWA #6108 GOLDSBORO, NC

System/Unit: FAN - Exhaust

Asset: EF2 AREA:BACK OF HOUSE

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	GB-098-6	GB-098-6
Serial Num	-	25400578
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	US MOTOR
Frame	-	N/L
Horsepower	1/6	1/6
Motor Rpm	1725	1725
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	3.8
Service Factor	-	1.35

Test Data		
	Design	**Actual**
CFM	400	308
Fan RPM	-	1161
Fan Rotation	-	CCW
Motor RPM	-	1763
System SetPt	-	2 TURNS OUT
RL Voltage	115	115
RL Amperage	3.8	NA
Total ESP	0.38"	0.32"
Fan Inlet SP	-	-0.32"
Fan Discharge SP	-	ATMO

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Notes:
EF-2 AT 77% OF DESIGN, SEE ISSUE

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Unit Data - PHOTO LOG

01/21/2025

National TAB

Project:01-20-25 WAWA #6108 GOLDSBORO, NC

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF2/BACK OF HOUSE

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	FOOD SERVICE	RG2	10"	200	1	308	308	308	154.0
EGRD2	BACK OF HOUSE	RG2	10"	200	1	0	0	0	0.0
Total				400		308	308	308	77%

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National TAB

Project: 01-20-25 WAWA #6108 GOLDSBORO, NC

System/Unit: FAN - Exhaust

Asset: EF3 AREA:TRASH ROOM

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	SP-B200	SP-B200
Serial Num	-	N/L
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICALp

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	0.167	0.167
Motor Rpm	NL	NL
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	NL
Service Factor	-	NL

Test Data		
	Design	**Actual**
CFM	200	246
Fan RPM	-	NA
Fan Rotation	-	CW
Motor RPM	-	NA
System SetPt	-	MAX
RL Voltage	115	115
RL Amperage	-	NA
Total ESP	0.50"	NA
Fan Inlet SP	-	NA
Fan Discharge SP	-	ATMO

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Notes:
FAN CONTROLS HAS 4 SPEEDS. MAX SPEED IS 246 CFMS AND HIGH SPEED IS 100 CFMS

Written By: Jearod Ferrette on 01/21/2025

Unit Data - PHOTO LOG

01/21/2025