Report By:

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

Report: TAB Report

Function: Test, Adjust, & Balance

Date: 05/22/2025

Completed By: National TAB

PROJECT

05-19-25 WAWA #7408 INDIANAPOLIS, IN

3835 EAST 96TH STREET

INDIANAPOLIS, IN 46240

Client

Wawa

260 West Baltimore Pike

Wawa, PA 19063

National TAB

Project: 05-19-25 WAWA #7408 INDIANAPOLIS, IN

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

- EF-1/EF-2 temporary power
- RTU-1 Alarm
- RTU-2 heat not functional
- RTU-2 space temperature
- RTU-3 alarm

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Project Issue Information

Issue Name : EF-1/EF-2 temporary power

Description : EF-1 and EF-2 are currently running on temporary power. Recommend electrician complete wiring so that these are operable at all times during occupancy.

Created By : National TAB

Assigned To : National TAB - Dylan Crisman

Status : Open

Priority : High

Asset Tag :

Originated Date : 05/22/2025 - Dylan Crisman - National TAB

Project Issue Response Details

- **05/22/2025 National TAB - Dylan Crisman**
  - Updated with photos.

05/22/2025

05/22/2025

05/22/2025

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Project Issue Information

Issue Name : RTU-1 Alarm

Description : RTU-1 alarm for outdoor enthalpy sensor is active. Recommend mechanical/electrician troubleshoot wiring to check for proper landing and voltage.

Created By : National TAB

Assigned To : National TAB - Dylan Crisman

Status : Open

Priority : Medium

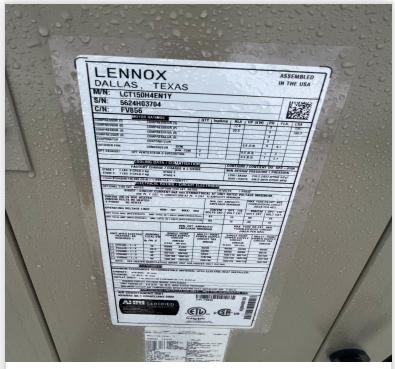
Asset Tag :

Originated Date : 05/22/2025 - Dylan Crisman - National TAB

Project Issue File Details

Project Issue Response Details

- **05/22/2025 National TAB - Dylan Crisman**
  - Updated with photo of RTU



05/22/2025	**05/22/2025**

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Project Issue Information

Issue Name : RTU-2 heat not functional

Description : RTU-2 heat function is inoperable. Throws a could for DSI modbus error as well as trips the transformer and causes unit to shutdown in alarm. Recommend mechanical inspect board and heating components to correct.

Created By :	National TAB	**Assigned To :**	National TAB - Dylan Crisman
Status :	Open		
Priority :	Urgent	**Asset Tag :**	
Originated Date :	05/22/2025 - Dylan Crisman - National TAB		

Project Issue File Details

05/22/2025

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Project Issue Information

Issue Name : RTU-2 space temperature

Description : RTU-2 space temperature on core app is reading at 91F, recommend mechanical/electrician check and troubleshoot wiring issues for proper landings at space temp sensor to ensure accurate temperature is recorded for units functionality to switch between heating/cooling stages as needed.

Created By : National TAB

Assigned To : National TAB - Dylan Crisman

Status : Open

Priority : Urgent

Asset Tag :

Originated Date : 05/22/2025 - Dylan Crisman - National TAB

Project Issue Response Details

- **05/22/2025 National TAB - Dylan Crisman**
  - Updated with photos of RTU

05/22/2025

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Project Issue Information

Issue Name : RTU-3 alarm

Description : RTU-3 shows an alarm for relative humidity sensor, recommend mechanical/electrician troubleshoot wiring between unit and space sensor to correct issue. Unit currently does not display humidity percentage on core app.

Created By : National TAB

Assigned To : National TAB - Dylan Crisman

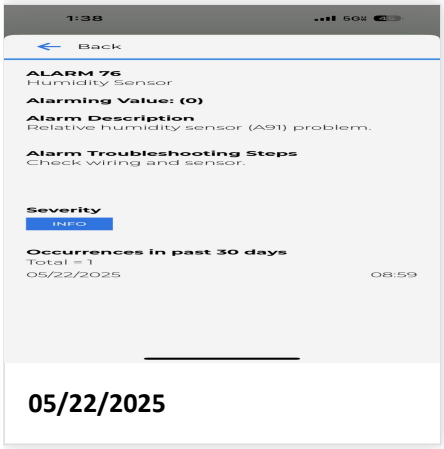
Status : Open

Priority : High

Asset Tag :

Originated Date : 05/22/2025 - Dylan Crisman - National TAB

Project Issue File Details



05/22/2025

Project Issue Response Details

- **05/22/2025 National TAB - Dylan Crisman**
  - Updated with photos of RTU

05/22/2025

05/22/2025

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	4500	4538	3800	3803	700	735	15.6%	16.2%						
RTU-2	DELI	3400	3734	3020	3329	380	405	11.2%	10.8%						
RTU-3	RETAIL	2400	376	2200	162	200	214	8.3%	56.9%						
EF-1	RESTROOMS													375	365
EF-2	BOH													400	384
EF-3	TRASH ROOM													200	202
TOTALS		10300	8648	9020	7294	1280	1354			0	0	0	0	975	951

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	1280	1354
TOTAL EXHAUST	975	951
NET AIRFLOW	305	403

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:

UNABLE TO RECORD BUILDING PRESSURE. ALL UNITS COULD NOT BE RUN AT THE SAME TIME FOR TEST TO BE TAKEN. EXHAUST FAN DISCONNECTED FROM TEMP POWER WHEN ELECTRICIANS LEFT SITE.

CheckList List

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

05-19-25 WAWA #7408 INDIANAPOLIS, IN

CheckList Information

Name :	01: RTU's/AHU's	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	04/22/2025 - Tara Metcalf - National TAB		
Completed Date :	05/22/2025 - Dylan Crisman - 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:	
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: Issues created for alarms present.	
Any noticeable duct leakage?	Pass
Comment:	
Total supply and OA flows are balanced within +/-5% and supply & return diffusers within +/-10%?	Pass
Comment:	
IN TEST MODE, TEST THE FOLLOWING:	
Cooling mode is operational? Record EAT/LAT for each unit:	
Comment: RTU-1: EAT: 66F LAT:48.1F RTU-2 EAT 68F LAT 48.3F RTU-3 EAT 63F LAT 48.8F	
Heating mode is operational? Record EAT/LAT for each unit:	Fail
Comment: RTU-1 N/A RTU-2 NOT FUNCTIONAL RTU-3 EAT 70F LAT 128F	
Dehumidification mode is operational? (Feel dehumidification coil with your hand. Is it hot?) Record EAT/LAT for each unit:	Pass
Comment: RTU-1 EAT 67F LAT 57.7F RTU-2 EAT 69F LAT 60.2F RTU-3 EAT 69F LAT 62.8F	

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CheckList Information

Name :	03: SENSOR WIRING (LENNOX)	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	04/22/2025 - Tara Metcalf - National TAB		
Completed Date :	05/21/2025 - Dylan Crisman - 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:	

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CheckList Information

Name :	02: LENNOX SETUP PARAMETERS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	04/22/2025 - Tara Metcalf - National TAB		
Completed Date :	05/22/2025 - Dylan Crisman - 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:

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:

HEAT CFM VALUE: PER THE HVAC SCHEDULE	Pass

Comment:

RTU-1 88% RTU-2 52% RTU-3 73%

HIGH COOL CFM VALUE: THE HIGH COOL CFM VALUE	Pass
Comment: RTU-1 88% RTU-2 52% RTU-3 73%	
LOW COOL CFM VALUE: MATCH THE HIGH COOL CFM VALUE	Pass
Comment: RTU-1 88% RTU-2 52% RTU-3 73%	
VENTILATION CFM VALUE: MATCH THE HIGH COOL CFM VALUE	Pass
Comment: RTU-1 88% RTU-2 52% RTU-3 73%	

05-19-25 WAWA #7408 INDIANAPOLIS, IN

CheckList Information

Name :	04: EF'S	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	04/22/2025 - Tara Metcalf - National TAB		
Completed Date :	05/22/2025 - Dylan Crisman - 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)?	N/A
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%?	Pass
Comment:	

05-19-25 WAWA #7408 INDIANAPOLIS, IN

CheckList Information

Name :	05: CLOSEOUT CHECKS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	04/22/2025 - Tara Metcalf - National TAB		
Completed Date :	05/22/2025 - Dylan Crisman - 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:	

National TAB

Project: 05-19-25 WAWA #7408 INDIANAPOLIS, IN

System/Unit: AHU/RTU

Asset: RTU1 AREA:BACK OF HOUSE

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624H03704
Model Num	LCT150H4E	LCT150H4EN1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	23X14
Num Final Filter 1	-	4
Final Filter Size 1	-	20X24X2

Motor Data		
	Design	**Actual**
Motor MFG	-	EBMPAPST
Frame	-	IP20
Horsepower	3.75	3.8
Motor Rpm	-	2200
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	8.7
Service Factor	-	1.15

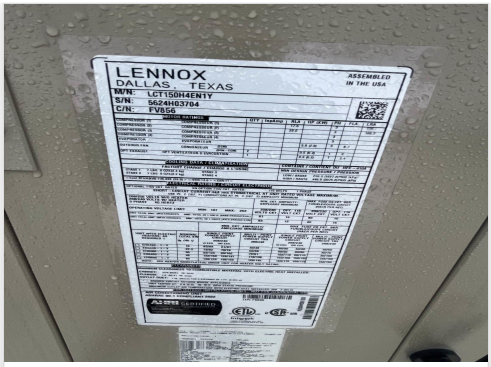
Test Data		
	Design	**Actual**
SF CFM	4500	4538
SF RPM	-	1936
MOTOR RPM	-	1760
RA CFM	3800	3803
OA CFM	700	735
RL Voltage	-	214/213/213
RL Amperage	-	7.0/7.0/7.0
SF System SetPt	-	88%
RA Damper Position	-	MECHANICAL LINKAGE
RA Damper Type	-	ECONOMIZER
OA Damper Position	-	29%
OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.51”
Fan Suction SP	-	-1.02”
Fan Discharge SP	-	0.70”
Total ESP	.70"	1.21”
Fan Total SP	-	1.53”

Completed By: Dylan Crisman on 05/22/2025

Unit Data - PHOTO LOG

05/21/2025



05/21/2025

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National TAB

Project:05-19-25 WAWA #7408 INDIANAPOLIS, IN

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	SD6	10"	500	1.0	510	464	483	96.6
SGRD2	FOOD SERVICE	SD6	10"	425	1.0	525	477	434	102.1
SGRD3	FOOD SERVICE	SD6	10"	425	1.0	206	187	406	95.5
SGRD4	FOOD SERVICE	SD6	10"	425	1.0	512	465	434	102.1
SGRD5	FOOD SERVICE	SD6	10"	425	1.0	512	465	451	106.1
SGRD6	FOOD SERVICE	SD6	10"	425	1.0	438	398	419	98.6
SGRD7	FOOD SERVICE	SD6	10"	400	1.0	581	528	427	106.8
SGRD8	FOOD SERVICE	SD6	10"	400	1.0	562	511	375	93.8
SGRD9	FOOD SERVICE	SD6	10"	400	1.0	625	568	431	107.8
SGRD10	TRASH STAGING	SD1	10"	300	1.0	233	212	288	96.0
SGRD11	ELECTRICAL ROOM	SD1	10"	375	1.0	491	491	390	104.0
Total				4500		5195	4766	4538	100.84%

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	KITCHEN	RG1	14"	1200	1.0	1078	908	1152	96.0
EGRD2	KITCHEN	RG1	14"	870	1.0	753	656	852	97.9
EGRD3	KITCHEN	RG1	14"	870	1.0	968	828	908	104.4
EGRD4	KITCHEN	RG1	14"	870	1.0	140	607	891	102.4
Total				3810		2939	2999	3803	99.82%

Completed By: Dylan Crisman on 05/21/2025

National TAB

Project: 05-19-25 WAWA #7408 INDIANAPOLIS, IN

System/Unit: AHU/RTU

Asset: RTU2 AREA:SALES

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624H05136
Model Num	LGT102H4E	LGT102H4ES1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	23X14
Num Final Filter 1	-	4
Final Filter Size 1	-	20X24X2

Motor Data		
	Design	**Actual**
Motor MFG	-	EBMPAPST
Frame	-	IP20
Horsepower	3.75	3.8
Motor Rpm	-	2200
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	8.7
Service Factor	-	1.15

Test Data		
	Design	**Actual**
SF CFM	3650	3734
SF RPM	-	1144
MOTOR RPM	-	1144
RA CFM	3270	3329
OA CFM	380	405
RL Voltage	-	213/214/214
RL Amperage	-	2.8/2.7/2.0
SF System SetPt	-	52%
RA Damper Position	-	MECHANICAL LINKAGE
RA Damper Type	-	ECONOMIZER
OA Damper Position	-	33%
OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.23”
Fan Suction SP	-	-0.37”
Fan Discharge SP	-	0.31”
Total ESP	1.00"	0.54”
Fan Total SP	-	0.68”

Completed By: Dylan Crisman on 05/22/2025

Unit Data - PHOTO LOG

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National TAB

Project:05-19-25 WAWA #7408 INDIANAPOLIS, IN

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	12"	275	1.0	569	398	288	104.7
SGRD2	RETAIL	SD2	12"	275	.567	281	197	290	105.5
SGRD3	RETAIL	SD2	12"	275	.567	124	87	279	101.5
SGRD4	RETAIL	SD2	12"	275	.567	292	204	292	106.2
SGRD5	RETAIL	SD2	12"	300	.567	580	406	321	107.0
SGRD6	RETAIL	SD2	12"	275	.567	400	280	271	98.5
SGRD7	RETAIL	SD2	20"	275	.567	600	420	287	104.4
SGRD8	RETAIL	SD2	12"	275	.567	226	158	294	106.9
SGRD9	HALLWAY	SD2	16"	275	.567	696	487	290	105.5
SGRD10	DELIVERY ROOM	SD1	8"	250	1.0	274	192	235	94.0
SGRD11	MENS RR	SD5	8"	150	1.0	284	199	143	95.3
SGRD12	REAR VESTIBLE	SD5	8"	200	1.0	244	171	211	105.5
SGRD13	HALLWAY	SD5	8"	200	1.0	261	183	194	97.0
SGRD14	WOMENS RESTROOM	SD5	8"	100	1.0	287	201	106	106.0
SGRD15	WALK-IN	SD-5	6"	250	1.0	272	190	233	93.2
Total				3650		5390	3773	3734	102.3%

Completed By: Dylan Crisman on 05/22/2025

National TAB

Project: 05-19-25 WAWA #7408 INDIANAPOLIS, IN

System/Unit: AHU/RTU

Asset: RTU3 AREA:FRONT OF HOUSE

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624L02789
Model Num	LGT072H4E	LGT072H4EQ1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	29.25X14.5
Num Final Filter 1	-	4
Final Filter Size 1	-	20X20X2

Motor Data		
	Design	**Actual**
Motor MFG	-	EBMPAPST
Frame	-	IP20
Horsepower	1	1.5
Motor Rpm	-	3300
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	4.4
Service Factor	-	1.15

Test Data		
	Design	**Actual**
SF CFM	2400	2376
SF RPM	-	2409
MOTOR RPM	-	2409
RA CFM	2200	2162
OA CFM	200	214
RL Voltage	-	212/212/213
RL Amperage	-	2.1/2.1/2.1
SF System SetPt	-	73%
RA Damper Position	-	MECHANICAL LINKAGE
RA Damper Type	-	ECONOMIZER
OA Damper Position	-	24%
OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.38”
Fan Suction SP	-	-0.53”
Fan Discharge SP	-	0.33”
Total ESP	.50"	0.71"
Fan Total SP	-	0.86"

Completed By: Dylan Crisman on 05/22/2025

Unit Data - PHOTO LOG

05/21/2025

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05/21/2025

National TAB

Project:05-19-25 WAWA #7408 INDIANAPOLIS, IN

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	FRONT OF HOUSE	SD1	8"	200	1.0	294	259	198	99.0
SGRD2	FRONT OF HOUSE	SD1	8"	150	1.0	134	118	140	93.3
SGRD3	FRONT OF HOUSE	SD5	8"	250	1.0	235	207	244	97.6
SGRD4	FRONT OF HOUSE	SD2	8"	450	.567	531	467	443	98.4
SGRD5	FRONT OF HOUSE	SD2	8"	450	.567	649	571	428	95.1
SGRD6	FRONT OF HOUSE	SD2	8"	450	.567	531	467	455	101.1
SGRD7	FRONT OF HOUSE	SD2	8"	450	.567	580	510	468	104.0
Total				2400		2954	2599	2376	99%

Completed By: Dylan Crisman on 05/22/2025

National TAB

Project: 05-19-25 WAWA #7408 INDIANAPOLIS, IN

System/Unit: FAN - Exhaust

Asset: EF1 AREA:

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	GB-098-6	GB-098-6-1-19-X
Serial Num	-	25993098
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	US-MOTORS
Frame	-	56Hz
Horsepower	0.167	0.167
Motor Rpm	-	1725
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	3.8
Service Factor	-	1.35

Drive Data	
	Actual
Motor Sheave Size	2.75"
Motor Bore Size	1/2"
Motor Sheave SetPt	3 TURNS OPEN
Fan Sheave Size	3.5"
Fan Sheave Bore	7/8"
Belt CL Distance	5.25"
Num of Belts	1
Belt Size	3L180

Test Data		
	Design	**Actual**
CFM	-	365
Fan RPM	-	927
Fan Rotation	-	CCW
Motor RPM	-	1764
Suction ESP	-	-0.20"
Discharge ESP	-	ATM
Total ESP	-	0.20"

Completed By: Dylan Crisman on 05/22/2025

Unit Data - PHOTO LOG

05/21/2025

05/21/2025

National TAB

Project:05-19-25 WAWA #7408 INDIANAPOLIS, IN

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF1/

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EF1-EGRD1	WOMENS RR	EG-1	8"	150	1.0	144	144	144	96.0
EF1-EGRD2	MENS RR	EG-1	8"	225	1.0	221	221	221	98.2
Total				375		365	365	365	97.33%

Completed By: Dylan Crisman on 05/22/2025

National TAB

Project: 05-19-25 WAWA #7408 INDIANAPOLIS, IN

System/Unit: FAN - Exhaust

Asset: EF2 AREA:

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	GB-098-6	GB-098-6-1-19-X
Serial Num	-	25993123
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	US-MOTORS
Frame	-	56Hz
Horsepower	-	0.167
Motor Rpm	-	1725
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	3.8
Service Factor	-	1.35

Drive Data	
	Actual
Motor Sheave Size	2.75"
Motor Bore Size	1/2"
Motor Sheave SetPt	1 TURN OPEN
Fan Sheave Size	3.5"
Fan Sheave Bore	7/8"
Belt CL Distance	5.25"
Num of Belts	1
Belt Size	3L180

Test Data		
	Design	**Actual**
CFM	-	384
Fan RPM	-	1021
Fan Rotation	-	CCW
Motor RPM	-	1170
Suction ESP	-	-0.26"
Discharge ESP	-	ATM
Total ESP	-	0.26"

Completed By: Dylan Crisman on 05/22/2025

Unit Data - PHOTO LOG

05/21/2025

05/21/2025

National TAB

Project:05-19-25 WAWA #7408 INDIANAPOLIS, IN

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF2/

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EF2-EGRD1	FOOD SERVICE	RG-2	8"	200	1.0	146	188	188	94.0
EF2-EGRD2	BACK OF HOUSE	RG-2	8"	200	1.0	152	196	196	98.0
Total				400		298	384	384	96%

Completed By: Dylan Crisman on 05/22/2025

National TAB

Project: 05-19-25 WAWA #7408 INDIANAPOLIS, IN

System/Unit: FAN - Exhaust

Asset: EF3 AREA:TRASHROOM

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	SP-B200	SP-B200
Serial Num	-	26594208
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	GREENHECK
Horsepower	0.167	1/30
Motor Rpm	-	1000
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	2.7
Service Factor	-	1.15

Test Data		
	Design	**Actual**
CFM	200	202
Fan RPM	-	800
Fan Rotation	-	CCW
Motor RPM	-	800
System SetPt	-	MARKED @ SPEED DIAL
RL Voltage	-	117
RL Amperage	-	2.1/2.2

Completed By: Dylan Crisman on 05/21/2025

Unit Data - PHOTO LOG

05/21/2025

05/21/2025