

Report By:

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SUITE 4210  
CINCINNATI, OH 45246



**Report: TAB Report**  
**Function: Test, Adjust, & Balance**  
**Date: 09/17/2024**

# PROJECT

## 09-16-24 WAWA #8433 PISCATAWAY, NJ

451 Stelton Rd

PISCATAWAY, NJ

### Client

Wawa  
260 West Baltimore Pike  
Wawa, PA 19063

# National TAB

Project: 09-16-24 WAWA #8433 PISCATAWAY, NJ

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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

- AC-1/3 Gas Valves.
- EF-1/2 Backdraft Damper



**09-16-24 WAWA #8433 PISCATAWAY, NJ**

**Project Issue Information**

**Issue Name :** AC-1/3 Gas Valves.  
**Description :** AC-1/3 Gas valves are not on. Once building gets gas recommend MC goes through manufacturers heater startup procedure.  
**Created By :** National TAB                      **Assigned To :** National TAB - Tyler Youells  
**Status :** Open  
**Priority :** High                                      **Asset Tag :**  
**Originated Date :** 09/16/2024 - Tyler Youells - National TAB

Project Issue Response Details

- **09/16/2024 National TAB - Tyler Youells**
  - Added photos



09/16/2024



09/16/2024



**09-16-24 WAWA #8433 PISCATAWAY, NJ**

**Project Issue Information**

**Issue Name :** EF-1/2 Backdraft Damper  
**Description :** EF-1/2 do not have backdraft dampers installed. Recommend Mc installs so when the fan stops running outside air and pests will not enter the building.  
**Created By :** National TAB                      **Assigned To :** National TAB - Tyler Youells  
**Status :** Open  
**Priority :** Medium                                      **Asset Tag :**  
**Originated Date :** 09/16/2024 - Tyler Youells - National TAB

Project Issue Response Details

- **09/16/2024 National TAB - Tyler Youells**
  - Added photos



09/16/2024



09/16/2024

### 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	3000	3095	2450	2526	550	569	18.3%	18.4%						
RTU-2	FOOD SERVICE	5000	4984	4050	4006	950	978	19.0%	19.6%						
RTU-3	RETAIL	2000	2002	1650	1637	350	365	17.5%	18.2%						
EF-1	RESTROOM													250	260
EF-2	FOOD SERVICE													1300	1276
<b>TOTALS</b>		10000	10081	8150	8169	1850	1912			0	0	0	0	1550	1536

#### NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	1850	1912
TOTAL EXHAUST	1550	1536
<b>NET AIRFLOW</b>	300	376

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H2O)
FRONT	0.007
SIDE	0.011
REAR	0.014
<b>AVERAGE</b>	<b>0.0107</b>

#### 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



**09-16-24 WAWA #8433 PISCATAWAY, NJ**

**CheckList Information**

**Name :** 01: RTU's/AHU's **Status :** Completed  
**Assigned Organization :** National TAB **Asset :**  
**Requesting Organization :** National TAB  
**Created Date :** 09/12/2024 - Brianna Biggs - National TAB  
**Completed Date :** 09/17/2024 - Tyler Youells - National TAB

**CheckList Item Details**

**RTU's/AHU's**

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

**Comment:**

AC-1 is missing a linear diffuser. will need to swap in another linear from a different unit once TAB is complete for a different unit (MC Installed missing diffuser 9/16/24 TAB completed)

**Clean filters installed?** Pass

**Comment:**

AC-1 Filters are dirty recommend replacement (MC replaced all filters 9/17/24 TAB completed)

**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?

Fail

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:

Alarms for heat failure due to gas being off

Any noticeable duct leakage?

Pass

Comment:

None to note

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:

Pass

Comment:

AC-1: EAT-71.0F/64.6% LAT-53.6F/78.9% AC2: EAT-69.6F/65.1% LAT-54.7F/76.2%RH AC3: EAT-69.9F/62% LAT-53.9F/70.3%RH

Heating mode is operational? Record EAT/LAT for each unit:

Fail

Comment:

Gas is not on to the building unable to test

Dehumidification mode is operational? (Feel dehumidification coil with your hand. Is it hot?) Record EAT/LAT for each unit:

Pass

**Comment:**

AC-1: EAT-68.4F/65.8% LAT 71.0F/63.7% AC2: EAT-65.6F/69.5% LAT-70.3F/64% AC-3: EAT-70.4F/59.8% LAT-71.8F/63.7%



09-16-24 WAWA #8433 PISCATAWAY, NJ

CheckList Information

**Name :** 02: LENNOX SETUP PARAMETERS **Status :** Completed  
**Assigned Organization :** National TAB **Asset :**  
**Requesting Organization :** National TAB  
**Created Date :** 09/12/2024 - Brianna Biggs - National TAB  
**Completed Date :** 09/17/2024 - Tyler Youells - 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:

AC1-60%, AC2-90%, AC-3-73%

HEAT CFM VALUE: PER THE HVAC SCHEDULE

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:**



09-16-24 WAWA #8433 PISCATAWAY, NJ

CheckList Information

**Name :** 03: SENSOR WIRING (LENNOX) **Status :** Completed  
**Assigned Organization :** National TAB **Asset :**  
**Requesting Organization :** National TAB  
**Created Date :** 09/12/2024 - Brianna Biggs - National TAB  
**Completed Date :** 09/17/2024 - Tyler Youells - National TAB

CheckList Item Details

**COMBINATION TEMPERATURE/HUMIDITY SENSOR**

**Sensors are installed where shown on the drawing?** Pass

**Comment:**

MC installed missing temperature sensor for AC-2

**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:**

AC-1 56%, AC-2 54%, AC-3 54%



09-16-24 WAWA #8433 PISCATAWAY, NJ

**CheckList Information**

**Name :** 04: EF'S **Status :** Completed  
**Assigned Organization :** National TAB **Asset :**  
**Requesting Organization :** National TAB  
**Created Date :** 09/12/2024 - Brianna Biggs - National TAB  
**Completed Date :** 09/16/2024 - Tyler Youells - National TAB

**CheckList Item Details**

EF's

Rotation is correct? Pass

Comment:

Belts are tight (if applicable)? N/A

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? Fail

Comment:

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

Pass

**Comment:**

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

Pass

**Comment:**



**09-16-24 WAWA #8433 PISCATAWAY, NJ**

**CheckList Information**

**Name :** 05: CLOSEOUT CHECKS **Status :** Completed  
**Assigned Organization :** National TAB **Asset :**  
**Requesting Organization :** National TAB  
**Created Date :** 09/12/2024 - Brianna Biggs - National TAB  
**Completed Date :** 09/17/2024 - Tyler Youells - 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: 09-16-24 WAWA #8433 PISCATAWAY, NJ

System/Unit: AHU/RTU



Asset: RTU1

AREA:RETAIL

Unit Data		
	Design	Actual
MFG	LENNOX ENLIGHT	LENNOX ENLIGHT
Serial Num	-	5624A03648
Model Num	LGT092H4E	LGT092H4ES1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	16X25
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Test Data		
	Design	Actual
SF CFM	3000	3095
SF RPM	-	1320
MOTOR RPM	-	1320
RA CFM	2450	2526
OA CFM	550	569
RL Voltage	-	209.9/209.7/208.3
RL Amperage	-	2.48/2.35/2.45
SF System SetPt	-	60%
RA Damper Position	-	MECHANICAL LINKAGE
OA Damper Position	-	25%
OA Damper Type	-	ECONOMIZER

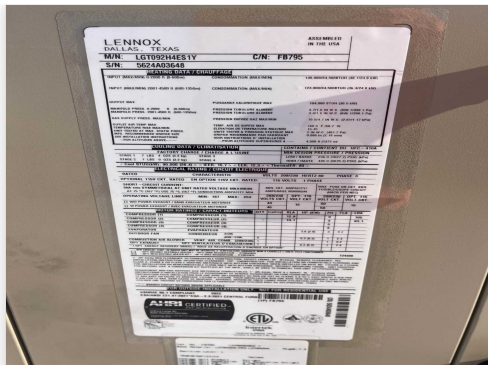
Motor Data		
	Design	Actual
Motor MFG	-	EBMPABST
Frame	-	NL
Horsepower	3.75	3300W
Motor Rpm	-	2200
Phase	3	3
Rated Voltage	208	200
Rated Amperage	-	8.7
Service Factor	-	1

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.23"
Fan Suction SP	-	-0.54"
Fan Discharge SP	-	0.35"
Total ESP	-	0.58"
Fan Total SP	-	0.89"

## Unit Data - PHOTO LOG



image\_18761078



image\_1361064877



image\_1580981243

Completed By: Tyler Youells on 09/17/2024

# National TAB

Project:09-16-24 WAWA #8433 PISCATAWAY, NJ

## 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	345	306	322	107.3
SGRD2	RETAIL	LD1	10"	300	1	318	277	323	107.7
SGRD3	RETAIL	LD1	10"	300	1	365	328	297	99.0
SGRD4	RETAIL	LD1	10"	325	1	439	381	339	104.3
SGRD5	OFFICE	CD1	8"	150	1	314	271	147	98.0
SGRD6	RETAIL	LD1	10"	325	1	344	305	343	105.5
SGRD7	RETAIL	LD1	10"	325	1	334	293	323	99.4
SGRD8	COFFEE	LD1	10"	325	1	366	324	338	104.0
SGRD9	SPECIALTY BEVERAGE	LD1	10"	325	1	353	324	345	106.2
SGRD10	SPECIALTY BEVERAGE	LD1	10"	325	1	344	287	318	97.8
Total				3000		3522	3096	3095	103.17%

### Diffuser Ret/Exh (GRD)

#### RTU1/RETAIL

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	RETAIL	G1	14"	815	1	735	869	869	106.6
EGRD2	RETAIL	G1	14"	820	1	711	841	841	102.6
EGRD3	RETAIL	G1	14"	815	1	689	816	816	100.1
Total				2450		2135	2526	2526	103.1%

Completed By: Tyler Youells on 09/17/2024

# National TAB

Project: 09-16-24 WAWA #8433 PISCATAWAY, NJ

## System/Unit: AHU/RTU



Asset: RTU2

AREA:FOOD SERVICE

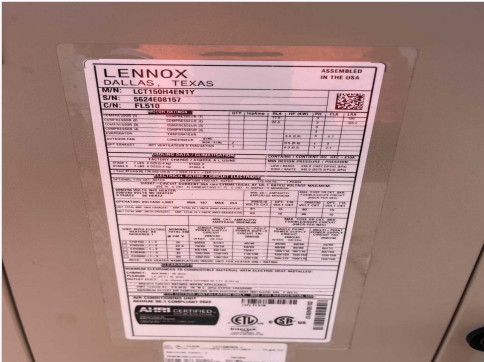
Unit Data		
	Design	Actual
MFG	LENNOX ENLIGHT	LENNOX ENLIGHT
Serial Num	-	5624E08157
Model Num	LCT150H4E	LCT150H4EN1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	16X25
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Test Data		
	Design	Actual
SF CFM	5000	4984
SF RPM	-	1980
MOTOR RPM	-	1980
RA CFM	4050	4006
OA CFM	950	978
RL Voltage	-	209.4/209.7/209.5
RL Amperage	-	7.15/7.22/7.25
SF System SetPt	-	90%
RA Damper Position	-	MECHANICAL LINKAGE
OA Damper Position	-	33%
OA Damper Type	-	ECONOMIZER

Motor Data		
	Design	Actual
Motor MFG	-	EBMPABST
Frame	-	NL
Horsepower	3.75	3300W
Motor Rpm	-	2200
Phase	3	3
Rated Voltage	208	200
Rated Amperage	-	8.7
Service Factor	-	1

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.58"
Fan Suction SP	-	-1.24"
Fan Discharge SP	-	0.73"
Total ESP	0.5"	1.31"
Fan Total SP	-	1.97"

### Unit Data - PHOTO LOG



image\_1553996029



image\_1931017028



image\_102264721

Completed By: Tyler Youells on 09/17/2024

# National TAB

Project:09-16-24 WAWA #8433 PISCATAWAY, NJ

## 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	FOOD SERVICE	LD1	10"	350	1	368	372	351	100.3
SGRD2	FOOD SERVICE	LD1	10"	350	1	271	268	344	98.3
SGRD3	FOOD SERVICE	LD1	10"	350	1	429	412	355	101.4
SGRD4	FOOD SERVICE	LD1	10"	350	1	338	323	360	102.9
SGRD5	FOOD SERVICE	LD1	10"	350	1	368	372	343	98.0
SGRD6	FOOD SERVICE	LD1	10"	350	1	379	398	335	95.7
SGRD7	FOOD SERVICE	LD1	10"	350	1	407	396	343	98.0
SGRD8	ELECTRICAL ROOM	CD1	12"	550	1	566	569	548	99.6
SGRD9	STAGING AREA	LD1	10"	350	1	365	333	356	101.7
SGRD10	ASSOCIATES AREA	CD1	10"	275	1	372	372	281	102.2
SGRD11	FOOD SERVICE	LD1	10"	350	1	293	313	379	108.3
SGRD12	FOOD SERVICE	LD1	10"	350	1	241	258	330	94.3
SGRD13	WASHROOM AREA	CD1	10"	275	1	343	363	295	107.3
SGRD14	WASHROOM AREA	LD1	10"	400	1	245	271	364	91.0
Total				5000		4985	5020	4984	99.68%

### 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	FOOD SERVICE	G1	14"	900	1	725	872	885	98.3
EGRD2	FOOD SERVICE	G1	14"	975	1	1277	920	934	95.8
EGRD3	FOOD SERVICE	G1	14"	975	1	863	948	962	98.7
EGRD4	FOOD SERVICE	G1	14"	600	1	579	630	639	106.5
EGRD5	WASHROOM AREA	G1	14"	600	1	514	577	586	97.7
Total				4050		3958	3947	4006	98.91%

Completed By: Tyler Youells on 09/17/2024

# National TAB

Project: 09-16-24 WAWA #8433 PISCATAWAY, NJ

## System/Unit: AHU/RTU



Asset: RTU3

AREA:RETAIL

Unit Data		
	Design	Actual
MFG	LENNOX ENLIGHT	LENNOX ENLIGHT
Serial Num	-	5624D03434
Model Num	LGT060H4E	LGT060H4EB1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	30X16
Num Final Filter 1	-	4
Final Filter Size 1	-	20X20X2

Motor Data		
	Design	Actual
Motor MFG	-	INTERLINK
Frame	-	NL
Horsepower	1	1
Motor Rpm	-	1050
Phase	3	1
Rated Voltage	208	208
Rated Amperage	-	7.4
Service Factor	-	1

Test Data		
	Design	Actual
SF CFM	2000	2002
SF RPM	-	767
MOTOR RPM	-	767
RA CFM	1650	1637
OA CFM	350	365
RL Voltage	-	207.7
RL Amperage	-	7.02
SF System SetPt	-	73%
RA Damper Position	-	MECHANICAL LINKAGE
OA Damper Position	-	25%
OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.28"
Fan Suction SP	-	0.40"
Fan Discharge SP	-	0.27"
Total ESP	0.5"	0.55"
Fan Total SP	-	0.67"

### Unit Data - PHOTO LOG



image\_1797351547



image\_768139744



image\_1250903249

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# National TAB

Project:09-16-24 WAWA #8433 PISCATAWAY, NJ

## 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	VESTIBULE	CD2	8"	250	1	200	206	233	93.2
SGRD2	RETAIL	LD1	10"	300	1	305	303	318	106.0
SGRD3	CLOSET	OPEN DUCT	8"	150	0.35	237	239	160	106.7
SGRD4	WOMENS RR	CD3	6"	50	1	77	81	55	110.0
SGRD5	MENS RR	CD3	6"	75	1	80	92	74	98.7
SGRD6	RETAIL	LD1	10"	300	1	216	224	281	93.7
SGRD7	RETAIL	LD1	10"	300	1	263	263	319	106.3
SGRD8	RETAIL	LD1	10"	300	1	278	290	294	98.0
SGRD9	RETAIL	LD1	10"	275	1	282	314	268	97.5
Total				2000		1938	2012	2002	100.1%

### Diffuser Ret/Exh (GRD)

#### RTU3/RETAIL

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	RETAIL	G1	14"	850	1	809	909	909	106.9
EGRD2	RETAIL	G1	14"	800	1	647	728	728	91.0
Total				1650		1456	1637	1637	99.21%

Completed By: Tyler Youells on 09/16/2024

# National TAB

Project: 09-16-24 WAWA #8433 PISCATAWAY, NJ

System/Unit: FAN - Exhaust



Asset: EF1

AREA:RESTROOMS

Unit Data		
	Design	Actual
MFG	PENNBARRY	PENNBARRY
Model Num	DX10R	DX10R
Serial Num	-	F24EZ73184
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

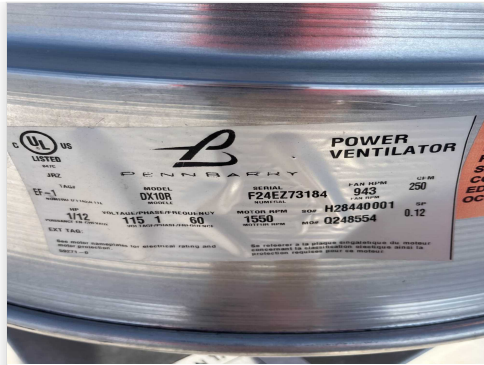
Motor Data		
	Design	Actual
Motor MFG	-	FASCO
Frame	-	NL
Horsepower	1/12	1/12
Motor Rpm	-	1550
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.1
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	250	260
Fan RPM	1550	NA
Fan Rotation	-	CCW
Motor RPM	-	NA
System SetPt	-	MARKED ON DIAL
RL Voltage	-	119.2
RL Amperage	-	1.26
Total ESP	0.125"	0.29"
Fan Inlet SP	-	-0.29"
Fan Discharge SP	-	ATM

## Unit Data - PHOTO LOG



image\_1864964430



image\_433296643

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# National TAB

Project:09-16-24 WAWA #8433 PISCATAWAY, NJ

## 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	G3	6"	100	1	112	102	102	102.0
EGRD2	MENS RR	G3	6"	100	1	101	106	106	106.0
EGRD3	MENS RR	G3	6"	50	1	48	52	52	104.0
Total				250		261	260	260	104%

Completed By: Tyler Youells on 09/16/2024

# National TAB

Project: 09-16-24 WAWA #8433 PISCATAWAY, NJ

## System/Unit: FAN - Exhaust



Asset: EF2

AREA:FOOD SERVICE

Unit Data		
	Design	Actual
MFG	PENNBARRY	PENNBARRY
Model Num	DX16S	DX16S
Serial Num	-	F24HZ35191
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

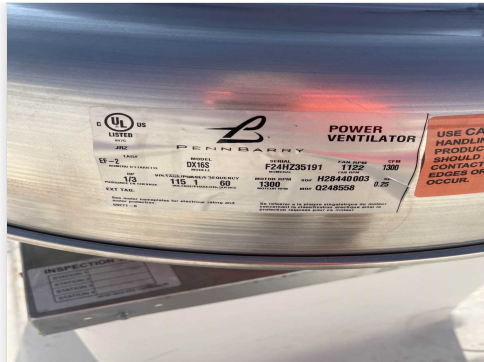
Motor Data		
	Design	Actual
Motor MFG	-	GENTEQ
Frame	-	NL
Horsepower	1/3	1/3
Motor Rpm	-	1550
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	4.3
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	1300	1276
Fan RPM	1300	NA
Fan Rotation	-	CCW
Motor RPM	-	NA
System SetPt	-	MARKED ON DIAL
RL Voltage	-	105.7
RL Amperage	-	5.44
Total ESP	0.250"	0.50"
Fan Inlet SP	-	-0.50"
Fan Discharge SP	-	ATM

### Unit Data - PHOTO LOG



image\_413128851



image\_1479455057

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# National TAB

Project:09-16-24 WAWA #8433 PISCATAWAY, NJ

## FAN - Exhaust



### Diffuser Ret/Exh (GRD)

#### EF2/FOOD SERVICE

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	FOOD SERVICE	G1	10"	500	1	491	409	495	99.0
EGRD2	FOOD SERVICE	G1	10"	400	1	366	304	378	94.5
EGRD3	FOOD SERVICE	G1	10"	300	1	528	450	307	102.3
EGRD4	STAGING AREA	G1	10"	100	1	220	175	96	96.0
Total				1300		1605	1338	1276	98.15%

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1 HVAC FLOOR PLAN  
1/4" = 1'-0"

