

Report By:

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



Report: PRELIM TAB REPORT  
Function: Test, Adjust, & Balance  
Date: 06/04/2024

**PROJECT**  
**06-03-24 WAWA #8443 HAZLET, NJ**

3052 Rt 35

Hazlet, NJ 07730

Client

Wawa  
260 West Baltimore Pike  
Wawa, PA 19063

# National TAB

Project: 06-03-24 WAWA #8443 HAZLET, NJ

## Table Of Contents

Section	Page #
AHU/RTU	3
FAN - Exhaust	9
Issues	14

# National TAB

Project: 06-03-24 WAWA #8443 HAZLET, NJ

## System/Unit: AHU/RTU



Asset: RTU1

AREA:RETAIL

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5623L01676
Model Num	LGT102H4E	LGT102H4E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	23"x14"
Num OA Filters 2	-	
OA Filter Size 2	-	
Num Final Filter 1	-	4
Final Filter Size 1	-	20"x25"x2"
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	Actual
Motor MFG	-	EBMPAPST
Frame	-	NL
Horsepower	3.75	3.8
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	200/240
Rated Amperage	-	8.8
Service Factor	-	NL

Test Data		
	Design	Actual
SF CFM	3400	
SF RPM	-	
MOTOR RPM	-	
RA CFM	2875	
OA CFM	525	
RL Voltage	-	
RL Amperage	-	
SF System SetPt	-	
RA Damper Position	-	
RA Damper Type	-	
OA Damper Position	-	
OA Damper Type	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.5"	
Fan Total SP	-	

# National TAB

Project:06-03-24 WAWA #8443 HAZLET, 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"	380	.96	436			-
SGRD2	RETAIL	LD1	10"	380	.96	292			-
SGRD3	RETAIL	LD1	10"	380	.96	292			-
SGRD4	RETAIL	LD1	10"	400	.96	594			-
SGRD5	ASSOCIATES	CD1	8"	150	1	250			-
SGRD6	OFFICE	CD1	8"	150	1	299			-
SGRD7	RETAIL	LD1	10"	380	.96	491			-
SGRD8	RETAIL	LD1	10"	380	.96	66			-
SGRD9	RETAIL	LD1	10"	400	.96	610			-
SGRD10	RETAIL	LD1	10"	400	.96	150			-
Total				3400		3480	0	0	0%

# National TAB

Project: 06-03-24 WAWA #8443 HAZLET, NJ

## System/Unit: AHU/RTU



Asset: RTU2

AREA:FOOD SERVICE

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5623K05300
Model Num	LCT120H4E	LCT120H4E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	23"x14"
Num OA Filters 2	-	
OA Filter Size 2	-	
Num Final Filter 1	-	4
Final Filter Size 1	-	20"x25"x2"
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	Actual
Motor MFG	-	EBMPAPST
Frame	-	NL
Horsepower	3.75	3.8
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	300/240
Rated Amperage	-	8.8
Service Factor	-	NL

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

Test Data		
	Design	Actual
SF CFM	4000	
SF RPM	-	
MOTOR RPM	-	
RA CFM	3325	
OA CFM	675	
RL Voltage	-	
RL Amperage	-	
SF System SetPt	-	
RA Damper Position	-	
RA Damper Type	-	
OA Damper Position	-	
OA Damper Type	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.5"	
Fan Total SP	-	

# National TAB

Project:06-03-24 WAWA #8443 HAZLET, 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	BACKROOM	LD1	10"	350	0.96	426			-
SGRD2	BACKROOM	LD1	10"	350	0.96	500			-
SGRD3	BACKROOM	LD1	10"	350	0.96	252			-
SGRD4	BACKROOM	LD1	10"	350	0.96	323			-
SGRD5	BACKROOM	LD1	10"	350	0.96	317			-
SGRD6	BACKROOM	LD1	10"	350	0.96	483			-
SGRD7	BACKROOM	CD1	10"	300	1	471			-
SGRD8	BACKROOM	CD1	10"	350	1	444			-
SGRD9	BACKROOM	CD1	10"	350	1	360			-
SGRD10	BACKROOM	CD1	10"	350	1	340			-
SGRD11	ELECTRICAL RM	CD1	12"	550	1	422			-
Total				4000		4338	0	0	0%

# National TAB

Project: 06-03-24 WAWA #8443 HAZLET, NJ

## System/Unit: AHU/RTU



Asset: RTU3

AREA:RETAIL

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5623J01791
Model Num	LGT060H4E	LGT060H4E
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	29x14
Num OA Filters 2	-	
OA Filter Size 2	-	
Num Final Filter 1	-	4
Final Filter Size 1	-	
Num Final Filter 2	-	
Final Filter Size 2	-	

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

Test Data		
	Design	Actual
SF CFM	2000	
SF RPM	-	
MOTOR RPM	-	
RA CFM	1700	
OA CFM	300	
RL Voltage	-	
RL Amperage	-	
SF System SetPt	-	
RA Damper Position	-	
RA Damper Type	-	
OA Damper Position	-	
OA Damper Type	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.5"	
Fan Total SP	-	

Notes:  
 UNIT DESIGN 2000CFM  
 DIFFUSER DESIGN 1980CFM

Written By: Brianna Biggs on 05/31/2024

# National TAB

Project:06-03-24 WAWA #8443 HAZLET, 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	FRONT VESTIBULE	CD2	10"	290	1	245			-
SGRD2	WOMENS RR	CD3	6"	50	1	88			-
SGRD3	MENS RR	CD3	6"	50	1	77			-
SGRD4	RETAIL	LD1	8"	250	0.96	192			-
SGRD5	RETAIL	LD1	8"	250	0.96	129			-
SGRD6	RETAIL	LD1	8"	250	0.96	164			-
SGRD7	RETAIL		8"	150	1	249			-
SGRD8	RETAIL	LD1	8"	215	0.96	166			-
SGRD9	RETAIL	LD1	8"	215	0.96	208			-
SGRD10	DELIVERY RM	CD1	8"	160	1	175			-
SGRD11	REAR VESTIBULE	CD3	6"	100	1	107			-
Total				1980		1800	0	0	0%

# National TAB

Project: 06-03-24 WAWA #8443 HAZLET, NJ

System/Unit: FAN - Exhaust



Asset: EF1

AREA:

Unit Data		
	Design	Actual
MFG	PENNBARRY	PENNBARRY
Model Num	DX10R	DX10R
Serial Num	-	L23AG85369
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	FASCO
Frame	-	NL
Horsepower	1/12	1/6
Motor Rpm	-	1550
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.8
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	300	
Fan RPM	1550	
Fan Rotation	-	
Motor RPM	-	
System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	0"	
Fan Inlet SP	-	
Fan Discharge SP	-	

# National TAB

Project:06-03-24 WAWA #8443 HAZLET, NJ

## FAN - Exhaust



**Diffuser Ret/Exh (GRD)**

EF1/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	WOMENS RR	G3	6"	100					-
EGRD2	JANITOR	G3	6"	50					-
EGRD3	MENS RR	G3	6"	150					-
Total				300		0	0	0	0%

# National TAB

Project: 06-03-24 WAWA #8443 HAZLET, NJ

System/Unit: FAN - Exhaust



Asset: EF2

AREA:

Unit Data		
	Design	Actual
MFG	PENNBARRY	PENNBARRY
Model Num	DX13Q	DX13Q
Serial Num	-	NL
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	GENTEQ
Frame	-	NL
Horsepower	1/4	1/4
Motor Rpm	-	1725
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	3.8
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	900	
Fan RPM	1725	
Fan Rotation	-	
Motor RPM	-	
System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	-	
Fan Inlet SP	-	
Fan Discharge SP	-	

# National TAB

Project:06-03-24 WAWA #8443 HAZLET, NJ

## FAN - Exhaust



**Diffuser Ret/Exh (GRD)**

EF2/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	BACKROOM	G1	10"	300					-
EGRD2	BACKROOM	G1	10"	500					-
EGRD3	STAGING RM	G1	6"	100					-
Total				900		0	0	0	0%

# National TAB

Project: 06-03-24 WAWA #8443 HAZLET, NJ

System/Unit: FAN - Exhaust



Asset: EF3

AREA:

Unit Data		
	Design	Actual
MFG	PENNBARRY	PENNBARRY
Model Num	Z3H	Z3H
Serial Num	-	
Type	INLINE	
Configuration	HORIZONTAL	

Test Data		
	Design	Actual
CFM	60	
System SetPt	-	

Motor Data		
	Design	Actual
Horsepower	39W	
Motor Rpm	-	
Phase	1	
Voltage (rated)	120	
Amperage (rated)	-	

## Issue List

- EF 1 in need of disconnect switch.
- Missing damper RTU 2
- Missing dampers RTU 1
- Non functioning damper RTU 3.



06-03-24 WAWA #8443 HAZLET, NJ

**Project Issue Information**

**Issue Name :** EF 1 in need of disconnect switch.  
**Description :** Speed controller was installed with incorrect wiring causing it to become fried on attempted change of fan speed. Electrician removed and bypassed broken speed controller to allow fan to have power.  
**Created By :** National TAB                      **Assigned To :** National TAB - Brianna Biggs  
**Status :** Open  
**Priority :** High                                      **Asset Tag :** EF1  
**Originated Date :** 06/04/2024 - Cody Collett - National TAB



06-03-24 WAWA #8443 HAZLET, NJ

**Project Issue Information**

<b>Issue Name :</b>	Missing damper RTU 2		
<b>Description :</b>	Missing damper for diffuser 11 on RTU 2		
<b>Created By :</b>	National TAB	<b>Assigned To :</b>	National TAB - Will Turnbough
<b>Status :</b>	Open		
<b>Priority :</b>	High	<b>Asset Tag :</b>	RTU2
<b>Originated Date :</b>	06/04/2024 - Cody Collett - National TAB		



**06-03-24 WAWA #8443 HAZLET, NJ**

**Project Issue Information**

<b>Issue Name :</b>	Missing dampers RTU 1		
<b>Description :</b>	Missing dampers on RTU 1 diffuser 6 and diffuser 1		
<b>Created By :</b>	National TAB	<b>Assigned To :</b>	National TAB - Will Turnbough
<b>Status :</b>	Open		
<b>Priority :</b>	High	<b>Asset Tag :</b>	RTU1
<b>Originated Date :</b>	06/04/2024 - Cody Collett - National TAB		



**06-03-24 WAWA #8443 HAZLET, NJ**

**Project Issue Information**

**Issue Name :** Non functioning damper RTU 3.  
**Description :** Nonfunctional damper on return duct to RTU 3 preventing unit from effectively reaching design airflow.  
**Created By :** National TAB                      **Assigned To :** National TAB - Will Turnbough  
**Status :** Open  
**Priority :** High                                      **Asset Tag :**  
**Originated Date :** 06/04/2024 - Cody Collett - National TAB