

Report By:

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



Report: Preliminary report
Function: Test, Adjust, & Balance
Date: 09/30/2025
Completed By: National TAB

PROJECT
09-29-25 WAWA #5444 ORLANDO, FL

16959 E COLONIAL DRIVE

ORLANDO, FL 32820

Client

Wawa
260 West Baltimore Pike

Wawa, PA 19063

National TAB

Project: 09-29-25 WAWA #5444 ORLANDO, FL

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09-29-25 WAWA #5444 ORLANDO, FL

CheckList Information

Name : 01: RTU's/AHU's **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 09/25/2025 - Natasha Louw - 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? N/A

Comment:

No economizers specified

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:

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?

N/A

Comment:

Electric Heat

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%?

Pass

Comment:

IN TEST MODE, TEST THE FOLLOWING:

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

Pass

Comment:

RTU 1 70/57 RTU 2 69/54 RTU 3 73/57 Degrees F

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

Pass

Comment:

RTU 1 76/80 RTU 3 73/80 Degrees F, Test cut off for store comfort

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

Pass

Comment:

Operational, RTU 1 75/69 RTU 2 69/65 RTU 3 73/65 Degrees F



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CheckList Information

Name : 02: LENNOX SETUP PARAMETERS **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 09/25/2025 - Natasha Louw - 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:

RTU 1 59% RTU 2 70% RTU 3 59%

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:



09-29-25 WAWA #5444 ORLANDO, FL

CheckList Information

Name : 03: SENSOR WIRING (LENNOX) **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 09/25/2025 - Natasha Louw - 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:



09-29-25 WAWA #5444 ORLANDO, FL

CheckList Information

Name : 04: EF'S **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 09/25/2025 - Natasha Louw - 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)?	N/A
---	-----

Comment:

No speed controllers located, not needed for balance.

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:



09-29-25 WAWA #5444 ORLANDO, FL

CheckList Information

Name : 05: CLOSEOUT CHECKS **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 09/25/2025 - Natasha Louw - 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:

Mechanical drawings are uploaded

Yes

Comment:

If job is a Revive, Pre-design, or Remodel. Check if we have an old report on sharepoint or the old FaciliBuild and upload to files section.

N/A

Comment:

GRD Layout is uploaded

Yes

Comment:

Jurisdiction Requirements

Is job in Orlando, FL metro area or Phoenix metro area? If yes, a smoke detector checklist needs to be created for each RTU or AHU

Yes

Comment:

Is job in Broward County, FL? If so, is Broward County on the permit (Ask the GC)? If Broward County is on the permit, then we CANNOT perform the balance.

No

Comment:



09-29-25 WAWA #5444 ORLANDO, FL

CheckList Information

Name : RTU 1: SMOKE DETECTOR **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 09/25/2025 - Natasha Louw - National TAB

CheckList Item Details

RTU #

Smoke detector manufacturer/model

Comment:

System Sensor LD4S

Acceptable pressure tolerance

Comment:

0.01 1.11 inches of water

Actual pressure measurement

Comment:

0.02"

Pass/Fail:

Pass

Comment:



09-29-25 WAWA #5444 ORLANDO, FL

CheckList Information

Name : RTU 2: SMOKE DETECTOR **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 09/25/2025 - Natasha Louw - National TAB

CheckList Item Details

RTU #

Smoke detector manufacturer/model

Comment:

System Sensor LD4S

Acceptable pressure tolerance

Comment:

0.01 to 0.11 inches of water

Actual pressure measurement

Comment:

0.1"

Pass/Fail:

Pass

Comment:



09-29-25 WAWA #5444 ORLANDO, FL

CheckList Information

Name : RTU 3: SMOKE DETECTOR **Status :** Not Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 09/25/2025 - Natasha Louw - National TAB

CheckList Item Details

RTU #

Smoke detector manufacturer/model

Comment:

System Sensor LD4S

Acceptable pressure tolerance

Comment:

0.01 to 1.11 inches of water

Actual pressure measurement

Comment:

0.02"

Pass/Fail:

Pass

Comment:

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Project: 09-29-25 WAWA #5444 ORLANDO, FL

System/Unit: AHU/RTU



Asset: RTU1

AREA:RETAIL

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5623L01683
Model Num	LCT102H4E	LCT102H4EG1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	23.25"x14.25"
Num Final Filter 1	-	4
Final Filter Size 1	-	20"x25"x2"

Test Data		
	Design	Actual
SF CFM	3400	3408
SF RPM	-	1298
RA CFM	2900	2939
OA CFM	500	469
RL Voltage	-	210/211/212 VOLTS
RL Amperage	-	2.43/2.56/2.56 AMPS
SF System SetPt	-	59 PERCENT
OA Damper Position	-	45 PERCENT
OA Damper Type	-	MOTORIZED

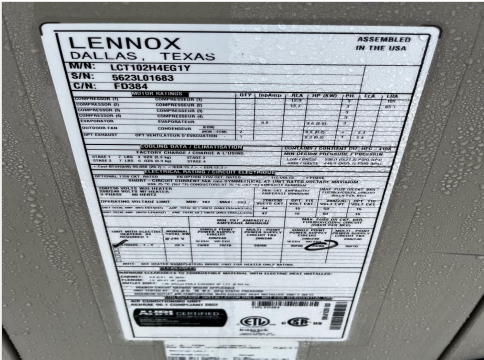
Motor Data		
	Design	Actual
Motor MFG	-	EBMPAPST
Frame	-	NL
Horsepower	3.75	3.7
Motor Rpm	-	2200
Phase	3	3
Rated Voltage	208	200-240VAC
Rated Amperage	-	8.8
Service Factor	-	NL

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.24"
Fan Suction SP	-	-0.5"
Fan Discharge SP	-	0.45"
Total ESP	0.5"	0.69"
Fan Total SP	-	0.95"

Drive Data	
	Actual
Motor Sheave SetPt	DIRECT DRIVE

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Unit Data - PHOTO LOG



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Motor Data - PHOTO LOG



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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	LD-1	10"	300	1	435	360	287	95.7
SGRD2	RETAIL	LD-1	10"	300	1	413	400	319	106.3
SGRD3	RETAIL	LD-1	10"	275	1	498	417	287	104.4
SGRD4	RETAIL	LD-1	10"	250	1	294	309	246	98.4
SGRD5	RETAIL	LD-1	10"	275	1	328	375	299	108.7
SGRD6	RETAIL	CD-1	8"	150	1	148	168	143	95.3
SGRD7	RETAIL	LD-1	8"	250	1	280	317	253	101.2
SGRD8	RETAIL	LD-1	8"	250	1	257	291	232	92.8
SGRD9	RETAIL	LD-1	8"	250	1	232	250	230	92.0
SGRD10	RETAIL	LD-1	10"	300	1	423	382	305	101.7
SGRD11	RETAIL	LD-1	10"	300	1	351	432	307	102.3
SGRD12	RETAIL	LD-1	8"	200	1	224	265	211	105.5
SGRD13	DELIVERY	CD-1	6"	100	1	139	112	94	94.0
SGRD14	RETAIL	CD-4	6"	50	1	75	71	51	102.0
SGRD15	RETAIL	CD-4	6"	75	1	67	76	71	94.7
SGRD16	RETAIL	CD-1	6"	75	1	95	110	73	97.3
Total				3400		4259	4335	3408	100.24%

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Project: 09-29-25 WAWA #5444 ORLANDO, FL

System/Unit: AHU/RTU



Asset: RTU2

AREA:FOOD SERVICE

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5624B06854
Model Num	LCT120H4E	LCT120H4EN1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	23.25"x14.25"
Num Final Filter 1	-	4
Final Filter Size 1	-	20"x25"x2"

Test Data		
	Design	Actual
SF CFM	4000	3984
SF RPM	-	1540
RA CFM	3225	3223
OA CFM	775	761
RL Voltage	-	210/211/212
RL Amperage	-	3.5/3.6/3.6
SF System SetPt	-	70%
OA Damper Position	-	50%
OA Damper Type	-	MOTORIZED DAMPER

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

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.33"
Fan Suction SP	-	-0.66"
Fan Discharge SP	-	0.52"
Total ESP	0.5"	0.85"
Fan Total SP	-	1.18'

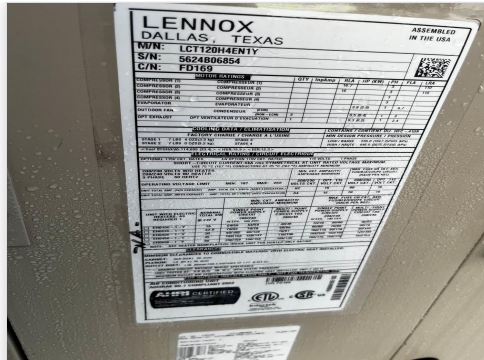
Drive Data	
	Actual
Motor Sheave SetPt	DIRECT DRIVE

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Unit Data - PHOTO LOG



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Project:09-29-25 WAWA #5444 ORLANDO, 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	RETAIL	LD-1	10"	410	1	386	407	389	94.9
SGRD2	RETAIL	LD-1	10"	410	1	510	555	399	97.3
SGRD3	FOOD SERVICE	LD-1	10"	410	1	448	486	433	105.6
SGRD4	FOOD SERVICE	LD-1	10"	410	1	445	492	431	105.1
SGRD5	BACKROOM	CD-1	12"	600	1	833	611	544	90.7
SGRD6	FOOD SERVICE	LD-1	10"	400	1	475	542	429	107.3
SGRD7	FOOD SERVICE	LD-1	10"	410	1	518	406	370	90.2
SGRD8	FOOD SERVICE	LD-1	10"	400	1	309	316	387	96.8
SGRD9	ELECTRICAL	CD-1	12"	550	1	598	664	602	109.5
Total				4000		4522	4479	3984	99.6%

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	G-1	12"	645	1	520		581	90.1
EGRD2	FOOD SERVICE	G-1	12"	645	1	576		639	99.1
EGRD3	FOOD SERVICE	G-1	12"	645	1	631		700	108.5
EGRD4	FOOD SERVICE	G-1	12"	645	1	621		689	106.8
EGRD5	FOOD SERVICE	G-1	12"	645	1	535		594	92.1
Total				3225		2883	0	3203	99.32%

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Project: 09-29-25 WAWA #5444 ORLANDO, FL

System/Unit: AHU/RTU



Asset: RTU3

AREA:RETAIL

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5623J05629
Model Num	LCT092H4E	LCT092H4EG1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	23.25"x14.25"
Num Final Filter 1	-	4
Final Filter Size 1	-	20"x25"x2"

Test Data		
	Design	Actual
SF CFM	3000	3019
SF RPM	-	1298
RA CFM	2650	2679
OA CFM	350	340
RL Voltage	-	210/211/212
RL Amperage	-	2.6/2.6/2.6
SF System SetPt	-	59%
OA Damper Position	-	30%
OA Damper Type	-	MOTORIZED DAMPER

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

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.46"
Fan Suction SP	-	-0.60"
Fan Discharge SP	-	0.34"
Total ESP	0.5"	0.8"
Fan Total SP	-	0.94"

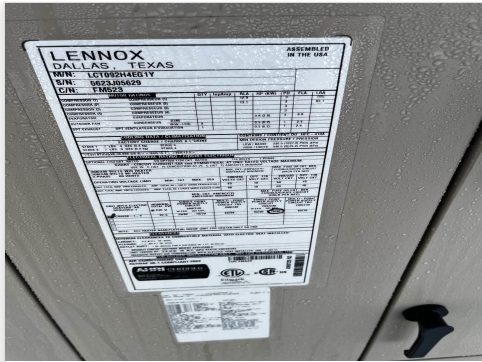
Drive Data	
	Actual
Motor Sheave SetPt	DIRECT-DRIVE

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Unit Data - PHOTO LOG



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Motor Data - PHOTO LOG



09/29/2025

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Project:09-29-25 WAWA #5444 ORLANDO, 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	STAGING	CD-3	8"	185	1	312	205	178	96.2
SGRD2	ASSOCIATES AREA	CD-1	8"	150	1	261	167	145	96.7
SGRD3	COFFEE	LD-1	10"	450	1	469	565	490	108.9
SGRD4	COFFEE	LD-1	10"	410	1	391	435	377	92.0
SGRD5	RETAIL	LD-1	10"	410	1	486	488	423	103.2
SGRD6	RETAIL	LD-1	10"	400	1	518	467	406	101.5
SGRD7	RETAIL	LD-1	10"	395	1	460	500	434	109.9
SGRD8	ENTRY	CD-2	12"	600	1	547	653	567	94.5
Total				3000		3444	3480	3020	100.67%

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Project: 09-29-25 WAWA #5444 ORLANDO, FL

System/Unit: FAN - Exhaust



Asset: EF1

AREA:RESTROOM

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	G-080	G-080-D— 1-17
Serial Num	-	27444366
Type	DOWNBLAST	CENTRIFUGAL
Configuration	VERTICAL	DOWNBLAST

Test Data		
	Design	Actual
CFM	325	319
Fan RPM	1576	1550
Fan Rotation	-	COUNTERCLOCKWISE
Motor RPM	-	DIRECT DRIVE
RL Amperage	-	1.1
Total ESP	-	0.3
Fan Inlet SP	-	-0.3
Fan Discharge SP	-	ATM

Motor Data		
	Design	Actual
Motor MFG	-	MCMILLIAN
Frame	-	NL
Horsepower	0.1	1/15
Motor Rpm	-	1550
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	1.2
Service Factor	-	NL

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Unit Data - PHOTO LOG



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Motor Data - PHOTO LOG



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 Project:09-29-25 WAWA #5444 ORLANDO, FL
FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF1/RESTROOM

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	JANITOR	G-4	6"	75	1	28	64	68	90.7
EGRD2	MENS RR	G-3	6"	50	1	52	76	52	104.0
EGRD3	MENS RR	G-3	6"	100	1	114	97	100	100.0
EGRD4	WOMENS RR	G-3	6"	100	1	112	87	99	99.0
Total				325		306	324	319	98.15%

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Project: 09-29-25 WAWA #5444 ORLANDO, FL

System/Unit: FAN - Exhaust



Asset: EF2

AREA:BOH

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	G-120	G-120-8-6-19-X
Serial Num	-	27555367
Type	DOWNBLAST	CENTRIFUGAL
Configuration	VERTICAL	DOWNBLAST

Test Data		
	Design	Actual
CFM	800	838
Fan RPM	1390	1456
Fan Rotation	-	CLOCKWISE
Motor RPM	-	DIRECT DRIVE
Total ESP	-	0.38
Fan Inlet SP	-	-0.38
Fan Discharge SP	-	ATM

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	0.5	1/6
Motor Rpm	-	1140
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	2.2
Service Factor	-	1.00

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Unit Data - PHOTO LOG

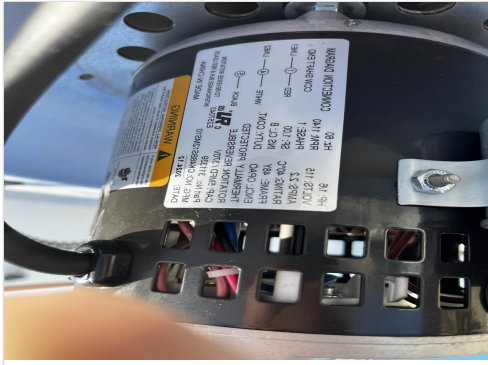


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Motor Data - PHOTO LOG



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National TAB

Project: 09-29-25 WAWA #5444 ORLANDO, FL

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF2/BOH

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	BACKROOM	G-1	10"	300		423	349	309	103.0
EGRD2	BACKROOM	G-1	12"	500		403	499	529	105.8
Total				800		826	848	838	104.75%

Completed By: Jackson Gunnels on 09/30/2025