Report By:

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

Report: TAB Report

Function: Test, Adjust, & Balance

Date: 10/16/2024

Completed By: National TAB

PROJECT

10-14-24 WAWA #5805 MOBILE, AL

664 SCHILLINGER RD

MOBILE, AL 36695

Client

Wawa

260 West Baltimore Pike

Wawa, PA 19063

National TAB

Project: 10-14-24 WAWA #5805 MOBILE, AL

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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

- EF-3 is missing grille

10-14-24 WAWA #5805 MOBILE, AL

Project Issue Information

Issue Name : EF-3 is missing grille
Description : Unable to locate grille for EF-3. Recommended to install grille once found.

Created By : National TAB
Assigned To : National TAB - Ian Fuller
Status : Open
Priority : High
Asset Tag :
Originated Date : 10/16/2024 - Ian Fuller - National TAB

Project Issue Response Details

- **10/16/2024 National TAB - Ian Fuller**
  - .

10/16/2024

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	FOOD SERVICE	3600	3695	2900	2984	700	711	19.4%	19.2%						
RTU-2	RETAIL	3250	3176	2870	2780	380	396	11.7%	12.5%						
RTU-3	RETAIL	2000	1913	1800	1712	200	201	10.0%	10.5%						
EF-1	RESTROOMS													375	368
EF-2	FOOD SERVICE													400	413
EF-3	TRASH/STAGING													200	216
TOTALS		8850	8784	7570	7476	1280	1308			0	0	0	0	975	997

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	1280	1308
TOTAL EXHAUST	975	997
NET AIRFLOW	305	311

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H20)
FRONT	0.0027
SIDE	0.0061
REAR	0.0071
AVERAGE	**0.0053**

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

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

10-14-24 WAWA #5805 MOBILE, AL

CheckList Information

Name :	00: PICTURES	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	10/10/2024 - Brianna Biggs - National TAB		
Completed Date :	10/16/2024 - Ian Fuller - National TAB		

CheckList Item Details

STORE FRONT

Comment:

10/16/2024

RTU-1

Comment:

10/16/2024

RTU-2

Comment:

10/16/2024

RTU-3

Comment:

10/16/2024

EF-1

Comment:

10/16/2024

EF-2

Comment:

10/16/2024

EF-3

Comment:

10/16/2024

10-14-24 WAWA #5805 MOBILE, AL

CheckList Information

Name :	01: RTU's/AHU's	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	10/10/2024 - Brianna Biggs - National TAB		
Completed Date :	10/16/2024 - Ian Fuller - 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?	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?	Pass
Comment:	
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:	
Comment: RTU1: EAT - 70 F / LAT - 54 F RTU2: EAT - 69 F / LAT - 54 F RTU3: EAT - 70 F / LAT - 53 F	
Heating mode is operational? Record EAT/LAT for each unit:	
Comment: RTU1: EAT - 74 F / LAT - 84 F RTU2: EAT - 72 F / LAT - 80 F RTU3: EAT - 73 F / LAT - 88 F	
Dehumidification mode is operational? (Feel dehumidification coil with your hand. Is it hot?) Record EAT/LAT for each unit:	

Comment:

RTU1: EAT - 72 F / LAT - 61 F RTU2: EAT - 70 F / LAT - 60 F RTU3: EAT - 73 F / LAT - 61 F

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CheckList Information

Name :	02: LENNOX SETUP PARAMETERS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	10/10/2024 - Brianna Biggs - National TAB		
Completed Date :	10/16/2024 - Ian Fuller - 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:

DO THIS ON RTU2

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:	
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:	

10-14-24 WAWA #5805 MOBILE, AL

CheckList Information

Name :	03: SENSOR WIRING (LENNOX)	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	10/10/2024 - Brianna Biggs - National TAB		
Completed Date :	10/16/2024 - Ian Fuller - 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:	

RTU1: 21% RH RTU2: 30% RH RTU3: 29% RH

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CheckList Information

Name :	04: EF'S	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	10/10/2024 - Brianna Biggs - National TAB		
Completed Date :	10/16/2024 - Ian Fuller - 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:

Notes/Comments :

(RESOLVED) NONE OF THE EXHAUST FANS ARE WIRED AND POWERED AT TIME OF TEST AND BALANCE INSPECTION.

Date :10/16/2024

10-14-24 WAWA #5805 MOBILE, AL

CheckList Information

Name :	05: CLOSEOUT CHECKS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	10/10/2024 - Brianna Biggs - National TAB		
Completed Date :	10/16/2024 - Ian Fuller - 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: 10-14-24 WAWA #5805 MOBILE, AL

System/Unit: AHU/RTU

Asset: RTU1 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624C07952
Model Num	LCT120H4E	LCT120H4EG1Y
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	-	20X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	EBMPAPST
Frame	-	N/A
Horsepower	3.75	3.8
Motor Rpm	-	N/A
Phase	3	3
Rated Voltage	208	200-240
Rated Amperage	-	8.7
Service Factor	-	N/A

Drive Data	
	Actual
Motor Sheave Size	DD
Motor Bore Size	DD
Motor Sheave SetPt	DD
Fan Sheave Size	DD
Fan Sheave Bore	D
Belt CL Distance	DD
Num of Belts	DD
Belt Size	DD

Test Data		
	Design	**Actual**
SF CFM	3600	3695
SF RPM	-	1210
MOTOR RPM	-	1210
RA CFM	2900	2984
OA CFM	700	711
RL Voltage	-	212/213/213
RL Amperage	-	1.4/1.4/1.5
SF System SetPt	-	46%
RA Damper Position	-	63%
RA Damper Type	-	ECONOMIZER
OA Damper Position	-	37%
OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.19"
Fan Suction SP	-	-0.28"
Fan Discharge SP	-	0.23"
Total ESP	1.00"	0.42"
Fan Total SP	-	0.51"

Completed By: Ian Fuller on 10/16/2024

Diffuser Supply (GRD)

RTU1/

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	COFFEE	SD4	10"	300	0.95	701	371	330	110.0
SGRD2	FOOD SERVICE	SD4	10"	300	0.95	627	434	286	95.3
SGRD3	FOOD SERVICE	SD4	10"	300	0.95	456	345	273	91.0
SGRD4	FOOD SERVICE	SD4	10"	300	0.95	230	183	312	104.0
SGRD5	FOOD SERVICE	SD4	10"	300	0.95	292	265	281	93.7
SGRD6	FOOD SERVICE	SD4	10"	300	0.95	560	426	328	109.3
SGRD7	FOOD SERVICE	SD4	10"	300	0.95	383	509	316	105.3
SGRD8	BOH	SD4	10"	325	0.95	279	216	351	108.0
SGRD9	BOH	SD4	10"	325	0.95	478	268	349	107.4
SGRD10	BOH	SD4	10"	325	0.95	389	246	339	104.3
SGRD11	TRASH/STAGING	SD1	8"	200	0.95	497	265	212	106.0
SGRD12	ELECTRICAL ROOM	SD1	10"	325	0.95	591	348	318	97.8
Total				3600		5483	3876	3695	102.64%

Diffuser Ret/Exh (GRD)

RTU1/

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	SPECIALTY BEVERAGE	RG1	14X14	900	1.0	834	834	834	92.7
EGRD2	SPECIALTY BEVERAGE	RG1	14X14	900	1.0	810	810	810	90.0
EGRD3	WASHROOM	RG1	14X14	1100	1.0	1105	1105	1105	100.5
Total				2900		2749	2749	2749	94.79%

National TAB

Project: 10-14-24 WAWA #5805 MOBILE, AL

System/Unit: AHU/RTU

Asset: RTU2 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624C07951
Model Num	LCT120H4E	LCT120H4EG1Y
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	-	20X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	EBMPAPST
Frame	-	N/A
Horsepower	3.75	3.8
Motor Rpm	-	N/A
Phase	3	3
Rated Voltage	208	200-240
Rated Amperage	-	8.7
Service Factor	-	N/A

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	3176
SF RPM	-	1320
MOTOR RPM	-	1320
RA CFM	2870	2780
OA CFM	380	396
RL Voltage	-	211/211/211
RL Amperage	-	2.4/2.4/2.3
SF System SetPt	-	60%
RA Damper Position	-	74%
RA Damper Type	-	ECONOMIZER
OA Damper Position	-	26%
OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.26”
Fan Suction SP	-	-0.48”
Fan Discharge SP	-	0.12”
Total ESP	1.00"	0.38"
Fan Total SP	-	0.60"

Completed By: Ian Fuller on 10/16/2024

Diffuser Supply (GRD)

RTU2/

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	RETAIL	SD2	30"	300	0.325	288	301	301	100.3
SGRD2	RETAIL	SD2	30"	275	0.325	288	257	257	93.5
SGRD3	RETAIL	SD2	30"	300	0.325	283	282	282	94.0
SGRD4	RETAIL	SD2	30"	275	0.325	251	255	255	92.7
SGRD5	RETAIL	SD2	30"	275	0.325	302	289	289	105.1
SGRD6	RETAIL	SD2	30"	300	0.325	286	294	294	98.0
SGRD7	RETAIL	SD2	30"	300	0.325	323	279	279	93.0
SGRD8	RETAIL	SD2	30"	275	0.325	358	266	266	96.7
SGRD9	RETAIL	SD2	30"	275	0.325	268	274	274	99.6
SGRD10	DELIVERY ROOM	SD1	8"	200	0.95	170	193	193	96.5
SGRD11	HALLWAY	SD1	8"	100	0.95	142	109	109	109.0
SGRD12	MENS RR	SD5	8"	150	0.95	74	141	141	94.0
SGRD13	WOMENS RR	SD5	8"	75	0.95	196	78	78	104.0
SGRD14	VESTIBULE	SD5	8"	150	0.95	157	158	158	105.3
Total				3250		3386	3176	3176	97.72%

National TAB

Project: 10-14-24 WAWA #5805 MOBILE, AL

System/Unit: AHU/RTU

Asset: RTU3 AREA:

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5624C05720
Model Num	LCT060H4E	LCT060H4EG1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14X14
Num Final Filter 1	-	4
Final Filter Size 1	-	20X20X2

Motor Data		
	Design	**Actual**
Motor MFG	-	GENTEQ
Frame	-	N/A
Horsepower	1.5	1.0
Motor Rpm	-	N/A
Phase	3	1
Rated Voltage	208	240
Rated Amperage	-	6.13
Service Factor	-	N/A

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	1913
SF RPM	-	80%
MOTOR RPM	-	80%
RA CFM	1800	1712
OA CFM	200	201
RL Voltage	-	209
RL Amperage	-	5.58
SF System SetPt	-	80%
RA Damper Position	-	80%
RA Damper Type	-	ECONOMIZER
OA Damper Position	-	20%
OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.27”
Fan Suction SP	-	-0.49”
Fan Discharge SP	-	0.26”
Total ESP	0.50"	0.53"
Fan Total SP	-	0.75"

Completed By: Ian Fuller on 10/16/2024

Diffuser Supply (GRD)

RTU3/

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	VESTIBULE	SD5	8"	200	0.95	214	212	219	109.5
SGRD2	RETAIL	SD2	75"	350	0.33		290	348	99.4
SGRD3	RETAIL	SD2	75"	350	0.33		366	359	102.6
SGRD4	RETAIL	SD2	75"	350	0.33		300	346	98.9
SGRD5	RETAIL	SD2	75"	350	0.33		285	329	94.0
SGRD6	ASSOCIATES	SD1	8"	150	0.95	261	146	155	103.3
SGRD7	OFFICE	SD1	8"	150	0.95	253	148	157	104.7
Total				1900		728	1747	1913	100.68%

Diffuser Ret/Exh (GRD)

RTU3/

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	SELF SERVICE BEVERAGE	RG1	12X12	750	1.0	712	713	713	95.1
EGRD2	SELF SERVICE BEVERAGE	RG1	12X12	750	1.0	743	740	740	98.7
EGRD3	ASSOCIATE AREA	RG3	8X8	150	1.0	122	139	139	92.7
EGRD4	OFFICE	RG3	8X8	150	1.0	180	140	140	93.3
Total				1800		1757	1732	1732	96.22%

National TAB

Project: 10-14-24 WAWA #5805 MOBILE, AL

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	-	24686914
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

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

Drive Data	
	Actual
Motor Sheave Size	VP25
Motor Bore Size	0.5"
Motor Sheave SetPt	2.0 TURNS OUT
Fan Sheave Size	3.5"
Fan Sheave Bore	0.75"
Belt CL Distance	5.0"
Num of Belts	1
Belt Size	3L180

Test Data		
	Design	**Actual**
CFM	375	368
Fan RPM	1334	1119
Fan Rotation	-	CW
Motor RPM	-	1722
RL Voltage	-	121
RL Amperage	-	2.0
Suction ESP	-	-0.21"
Discharge ESP	-	ATM
Total ESP	-	0.21"

Completed By: Ian Fuller on 10/16/2024

National TAB

Project:10-14-24 WAWA #5805 MOBILE, AL

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	WOMEN'S RR	EG-1	8X8	150	1.0	175	145	145	96.7
EF1-EGRD2	MEN'S RR	EG-1	8X8	225	1.0	195	223	223	99.1
Total				375		370	368	368	98.13%

Completed By: Ian Fuller on 10/16/2024

National TAB

Project: 10-14-24 WAWA #5805 MOBILE, AL

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	-	24686912
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

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

Drive Data	
	Actual
Motor Sheave Size	VP25
Motor Bore Size	0.5"
Motor Sheave SetPt	0.5 TURNS OUT
Fan Sheave Size	3.5"
Fan Sheave Bore	0.75"
Belt CL Distance	5.0"
Num of Belts	1
Belt Size	3L180

Test Data		
	Design	**Actual**
CFM	400	413
Fan RPM	1334	1210
Fan Rotation	-	CW
Motor RPM	-	1726
RL Voltage	-	121
RL Amperage	-	2.4
Suction ESP	-	-0.25"
Discharge ESP	-	ATM
Total ESP	-	0.25"

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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	8X8	200	1.0	180	212	212	106.0
EF2-EGRD2	BACK OF HOUSE	RG-2	8X8	200	1.0	170	201	201	100.5
Total				400		350	413	413	103.25%

National TAB

Project: 10-14-24 WAWA #5805 MOBILE, AL

System/Unit: FAN - Exhaust

Asset: EF3 AREA:

Unit Data		
	Design	**Actual**
MFG	GREENHECK	GREENHECK
Model Num	SP-B200	SP-B200-QD
Serial Num	-	178416806-0029
Type	CENTRIFUGAL	CENTRIFUGAL
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	**Actual**
CFM	200	216
System SetPt	-	HIGH SPEED

Motor Data		
	Design	**Actual**
Horsepower	-	GREENHECK
Motor Rpm	-	1000
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	2.7

Completed By: Ian Fuller on 10/16/2024

Notes:
GRILLE FACE MISSING

Written By: Ian Fuller on 10/16/2024