

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 #6601 RUTHER GLEN, VA

8150 LADYSMITH RD

RUTHER GLEN, VA 22546

Client

Wawa
260 West Baltimore Pike
Wawa, PA 19063

National TAB

Project: 10-14-24 WAWA #6601 RUTHER GLEN, VA

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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

- EFs: Backdraft dampers are not installed
- Missing glass windows by the front vestibule
- RTUs: Dust plugs are still in the smoke detectors

10-14-24 WAWA #6601 RUTHER GLEN, VA

Project Issue Information

Issue Name : EFs: Backdraft dampers are not installed
Description : The backdraft dampers for the EFs are not installed. Recommend having them installed for all EFs
Created By : National TAB **Assigned To :** National TAB - David Annan
Status : Open
Priority : Medium **Asset Tag :**
Originated Date : 10/21/2024 - David Annan - National TAB

Project Issue File Details





10-14-24 WAWA #6601 RUTHER GLEN, VA

Project Issue Information

Issue Name : Missing glass windows by the front vestibule
Description : There are missing glass windows by the vestibule. Unable to measure building pressure.
Created By : National TAB **Assigned To :** National TAB - David Annan
Status : Open
Priority : InfoOnly **Asset Tag :**
Originated Date : 10/21/2024 - David Annan - National TAB

Project Issue File Details



10/21/2024



10-14-24 WAWA #6601 RUTHER GLEN, VA

Project Issue Information

Issue Name : RTUs: Dust plugs are still in the smoke detectors
Description : The dust plugs are still in the RTU smoke detectors recommend having them removed.
Created By : National TAB **Assigned To :** National TAB - David Annan
Status : Open
Priority : Low **Asset Tag :**
Originated Date : 10/21/2024 - David Annan - National TAB

Project Issue File Details



10/21/2024

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	FOOD SERVICE	4500	4524	3800	3831	700	693	15.6%	15.3%						
RTU-2	RETAIL	3400	3412	3020	3016	380	396	11.2%	11.6%						
RTU-3	FRONT OF HOUSE	2400	2291	2200	2096	200	195	8.3%	8.5%						
EF-1	RESTROOMS													375	372
EF-2	FOOD SERVICE													400	393
EF-3	TRASH/STAGING													200	209
TOTALS		10300	10227	9020	8943	1280	1284			0	0	0	0	975	974

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	1280	1284
TOTAL EXHAUST	975	974
NET AIRFLOW	305	310

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H2O)
FRONT	NA
SIDE	NA
REAR	NA
AVERAGE	NA

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:

Building pressure could not be measured due to missing windows by the vestibule.

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 #6601 RUTHER GLEN, VA

CheckList Information

Name : 00: PICTURES **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 10/15/2024 - Brianna Biggs - National TAB

Completed Date : 10/17/2024 - David Annan - National TAB

CheckList Item Details

STORE FRONT

Comment:



10/17/2024

RTU-1

Comment:



10/17/2024

RTU-2

Comment:



10/17/2024

RTU-3

Comment:



10/17/2024

EF-1

Comment:



10/17/2024

EF-2

Comment:



10/17/2024



10-14-24 WAWA #6601 RUTHER GLEN, VA

CheckList Information

Name : 01: RTU's/AHU's **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 10/15/2024 - Brianna Biggs - National TAB

Completed Date : 10/17/2024 - David Annan - 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:

Location does not have gas to the RTUs

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:

Pass

Comment:

RTU-1: EAT: 68 DEG F LAT:45 DEG F RTU-2: EAT: 73 DEG F LAT: 54 DEG F RTU-3: EAT: 69 DEG F LAT: 51 DEG F

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

Comment:

RTU-1: Unit does not have heating RTU-2: EAT: 72 DEG F LAT: 88 DEG F RTU-3: EAT: 69 DEG F LAT: 105 DEG F

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

Pass

Comment:

RTU-1: EAT: 68 DEG F LAT: 56 DEG F RTU-2: EAT: 72 DEG F LAT: 60 DEG F RTU-3: EAT: 69 DEG F LAT: 61 DEG 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 : 10/15/2024 - Brianna Biggs - National TAB

Completed Date : 10/17/2024 - David Annan - 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

N/A

Comment:

HIGH COOL CFM VALUE: THE HIGH COOL CFM VALUE

N/A

Comment:

LOW COOL CFM VALUE: MATCH THE HIGH COOL CFM VALUE

N/A

Comment:

VENTILATION CFM VALUE: MATCH THE HIGH COOL CFM VALUE

N/A

Comment:



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CheckList Information

Name : 03: SENSOR WIRING (LENNOX) **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 10/15/2024 - Brianna Biggs - National TAB

Completed Date : 10/16/2024 - David Annan - 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 : 04: EF'S **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 10/15/2024 - Brianna Biggs - National TAB

Completed Date : 10/16/2024 - David Annan - 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)?	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?	Pass
---	------

Comment:

Unit free of noticeable noise and vibration?

Pass

Comment:

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

Pass

Comment:



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CheckList Information

Name : 05: CLOSEOUT CHECKS Status : Completed
Assigned Organization : National TAB Asset :
Requesting Organization : National TAB
Created Date : 10/15/2024 - Brianna Biggs - National TAB
Completed Date : 10/16/2024 - David Annan - 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)

Comment:

Unable to take building pressure due to missing windows by the front vestibule and front of the store



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System/Unit: AHU/RTU

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Asset: RTU1

AREA:

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5624A03696
Model Num	LCT150H4E	LCT150H4E
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/L
Horsepower	3.75	3.75
Motor Rpm	-	N/L
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	8.7
Service Factor	-	N/L

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	4500	4524
SF RPM	-	85%
MOTOR RPM	-	85%
RA CFM	3800	3831
OA CFM	700	693
RL Voltage	-	211/212/211
RL Amperage	-	5.6/5.3/5.2
SF System SetPt	-	85%
RA Damper Position	-	80%
OA Damper Position	-	20%
OA Damper Type	-	OBD

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.75"
Fan Suction SP	-	-1.35"
Fan Discharge SP	-	0.68"
Total ESP	0.70"	1.43"
Fan Total SP	-	2.03"

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AHU/RTU

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Diffuser Supply (GRD)

RTU1/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	COFFEE	SD6	12"	500	1	822	531	531	106.2
SGRD2	FOOD SERVICE	SD6	10"	425	1	459	395	395	92.9
SGRD3	FOOD SERVICE	SD6	10"	425	1	360	411	411	96.7
SGRD4	FOOD SERVICE	SD6	10"	425	1	460	437	437	102.8
SGRD5	FOOD SERVICE	SD6	10"	425	1	403	401	401	94.4
SGRD6	FOOD SERVICE	SD6	10"	425	1	379	441	441	103.8
SGRD7	BACK OF HOUSE	SD6	10"	400	1	335	408	408	102.0
SGRD8	BACK OF HOUSE	SD6	10"	400	1	318	423	423	105.8
SGRD9	BACK OF HOUSE	SD6	10"	400	1	290	375	375	93.8
SGRD10	TRASH/STAGING	SD1	10"	300	1	448	296	296	98.7
SGRD11	ELECTRICAL ROOM	SD1	10"	375	1	304	406	406	108.3
Total				4500		4578	4524	4524	100.53%

Diffuser Ret/Exh (GRD)

RTU1/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	FOOD SERVICE	RG1	12X12	870	1				-
EGRD2	FOOD SERVICE	RG1	12X12	865	1				-
EGRD3	FOOD SERVICE	RG1	12X12	865	1				-
EGRD4	WASHROOM	RG1	12X12	1200	1				-
Total				3800		0	0	0	0%



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System/Unit: AHU/RTU

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Asset: RTU2

AREA:

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5623B05106
Model Num	LCT102H4E	LCT102H4E
Type	RTU	RTU
Configuration	VERTICAL	Vertical
Num OA Filters 1	-	1
OA Filter Size 1	-	23X14
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	
Final Filter Size 2	-	

Test Data		
	Design	Actual
SF CFM	3400	3412
SF RPM	-	64%
MOTOR RPM	-	64%
RA CFM	3020	3016
OA CFM	380	396
RL Voltage	-	212/211/211
RL Amperage	-	2.1/2.1/2.1
SF System SetPt	-	64%
RA Damper Position	-	76%
OA Damper Position	-	24%
OA Damper Type	-	OBD

Motor Data		
	Design	Actual
Motor MFG	-	ebmpapst
Frame	-	N/L
Horsepower	3.75	3.75
Motor Rpm	-	N/L
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	8.7
Service Factor	-	N/L

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.11"
Fan Suction SP	-	-0.54"
Fan Discharge SP	-	0.34"
Total ESP	1.00"	0.45"
Fan Total SP	-	0.88"

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

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AHU/RTU

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Diffuser Supply (GRD)

RTU2/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	RETAIL	SD2	20X4	275	0.61	253	261	261	94.9
SGRD2	RETAIL	SD2	20X4	275	0.61	309	274	274	99.6
SGRD3	RETAIL	SD2	20X4	300	0.61	294	318	318	106.0
SGRD4	RETAIL	SD2	20X4	275	0.61	422	254	254	92.4
SGRD5	RETAIL	SD2	20X4	275	0.61	383	257	257	93.5
SGRD6	RETAIL	SD2	20X4	275	0.61	326	298	298	108.4
SGRD7	RETAIL	SD2	20X4	275	0.61	401	263	263	95.6
SGRD8	RETAIL	SD2	20X4	275	0.61	591	301	301	109.5
SGRD9	RETAIL	SD2	20X4	275	0.61	402	267	267	97.1
SGRD10	HALLWAY	SD1	24x24	200	1	140	105	105	52.5
SGRD11	DELIVERY ROOM	SD1	24x24	250	1	207	262	262	104.8
SGRD12	WOMENS RR	SD5	12x12	100	1	175	190	190	190.0
SGRD13	MENS RR	SD5	12x12	150	1	196	159	159	106.0
SGRD14	EXIT VESTIBULE	SD5	12x12	200	1	190	203	203	101.5
Total				3400		4289	3412	3412	100.35%

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System/Unit: AHU/RTU

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Asset: RTU3

AREA:

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5624D06699
Model Num	LCT072H4E	LCT072H4E
Type	RTU	RTU
Configuration	VERTICAL	Vertical
Num OA Filters 1	-	1
OA Filter Size 1	-	28X14
Num Final Filter 1	-	4
Final Filter Size 1	-	20X20X2

Motor Data		
	Design	Actual
Motor MFG	-	N/L
Frame	-	N/L
Horsepower	1	1.5
Motor Rpm	-	N/L
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	4.4
Service Factor	-	N/L

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	2400	2291
SF RPM	-	86%
MOTOR RPM	-	86%
RA CFM	2200	2096
OA CFM	200	195
RL Voltage	-	211/211/211
RL Amperage	-	2.0/2.0/2.0
SF System SetPt	-	86%
RA Damper Position	-	93%
OA Damper Position	-	7%
OA Damper Type	-	OBD

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.59"
Fan Suction SP	-	-0.83"
Fan Discharge SP	-	0.36"
Total ESP	0.50"	0.95"
Fan Total SP	-	1.19"

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Project:10-14-24 WAWA #6601 RUTHER GLEN, VA

AHU/RTU



Diffuser Supply (GRD)

RTU3/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	VESTIBULE	SD2	8"	250	1	178	180	233	93.2
SGRD2	RETAIL	SD2	20X4	450	0.61	378	384	432	96.0
SGRD3	RETAIL	SD2	20X4	450	0.61	356	369	417	92.7
SGRD4	RETAIL	SD2	20X4	450	0.61	372	386	437	97.1
SGRD5	RETAIL	SD2	20X4	450	0.61	364	377	439	97.6
SGRD6	ASSOCIATES AREA	SD1	8"	200	1	228	169	185	92.5
SGRD7	OFFICE	SD1	8"	150	1	147	126	148	98.7
Total				2400		2023	1991	2291	95.46%

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 STORAGE	RG1	12X12	925	1	842	-	842	91.0
EGRD2	SELF SERVICE STORAGE	RG1	12X12	925	1	836	-	836	90.4
EGRD3	ASSOCIATE AREA	RG3	8X8	200	1	191	-	191	95.5
EGRD4	OFFICE	RG3	8X8	150	1	147	-	147	98.0
Total				2200		2016	0	2016	91.64%

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System/Unit: FAN - Exhaust

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Asset: EF1

AREA:

Unit Data		
	Design	Actual
MFG	GREENHECK	PENNBARRY
Model Num	GB-098-6	DX06B
Serial Num	-	F24HZ82831
Type	DOWNBLAST	Downblast
Configuration	VERTICAL	Vertical

Motor Data		
	Design	Actual
Motor MFG	-	FASCO
Frame	-	N/L
Horsepower	0.167	1/4
Motor Rpm	-	1550
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	2.70
Service Factor	-	N/L

Test Data		
	Design	Actual
CFM	375	372
Fan RPM	-	1286
Fan Rotation	-	CCW
Motor RPM	-	1711
System SetPt	-	2.5 Turns out
RL Voltage	-	123
RL Amperage	-	1.2
Total ESP	0.38"	0.44"
Fan Inlet SP	-	-0.44"
Fan Discharge SP	-	ATM

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FAN - Exhaust

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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	EG1	8X8	150	1	208	130	141	94.0
EGRD2	MENS RR	EG1	8X8	225	1	190	211	231	102.7
Total				375		398	341	372	99.2%

Completed By: David Annan on 10/17/2024



National TAB

Project: 10-14-24 WAWA #6601 RUTHER GLEN, VA

System/Unit: FAN - Exhaust

NATIONAL TAB

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Asset: EF2

AREA:

Unit Data		
	Design	Actual
MFG	GREENHECK	PENNBARRY
Model Num	GB-098-6	DX06B
Serial Num	-	F24HZ82990
Type	DOWNBLAST	Downblast
Configuration	VERTICAL	Vertical

Motor Data		
	Design	Actual
Motor MFG	-	FASCO
Frame	-	N/L
Horsepower	0.167	1/4
Motor Rpm	-	1550
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	2.70
Service Factor	-	N/L

Test Data		
	Design	Actual
CFM	400	393
Fan RPM	-	1187
Fan Rotation	-	CCW
Motor RPM	-	1728
System SetPt	-	3.5 Turns out
RL Voltage	-	123
RL Amperage	-	1.0
Total ESP	0.38"	0.28"
Fan Inlet SP	-	-0.28"
Fan Discharge SP	-	ATM

Completed By: David Annan on 10/17/2024



National TAB

Project:10-14-24 WAWA #6601 RUTHER GLEN, VA

FAN - Exhaust

NATIONAL TAB

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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
EGRD1	FOOD SERVICE	RG2	8X8	200	1	195	-	195	97.5
EGRD2	BACK OF HOUSE	RG2	8X8	200	1	198	-	198	99.0
Total				400		393	0	393	98.25%

Completed By: David Annan on 10/15/2024



National TAB

Project: 10-14-24 WAWA #6601 RUTHER GLEN, VA

System/Unit: FAN - Exhaust

NATIONAL TAB

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Asset: EF3

AREA:

Unit Data		
	Design	Actual
MFG	GREENHECK	PENNBARRY
Model Num	SP-B200	Z8GP
Serial Num	-	E24BZ59695
Type	CEILING	Ceiling
Configuration	VERTICAL	Vertical

Test Data		
	Design	Actual
CFM	200	209
System SetPt	-	F 57

Motor Data		
	Design	Actual
Horsepower	0.167	N/L
Motor Rpm	-	1380
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	N/L

Completed By: David Annan on 10/16/2024

