

Report By:

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



Report: TAB Report
Function: Test, Adjust, & Balance
Date: 11/14/2024
Completed By: National TAB

PROJECT
11-11-24 WAWA #5452 ORLANDO, FL

8927 Futures Dr

Orlando, FL 32819

Client

Wawa
260 West Baltimore Pike
Wawa, PA 19063

National TAB

Project: 11-11-24 WAWA #5452 ORLANDO, FL

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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

- All RTUs - No Turning Vanes
- EF-1 Missing Backdraft Damper
- Remote Sensor Wire Incorrect Type
- RTU Return Grille Sizing
- RTU-1 Broken Handle
- RTU-1 OA Hood Not Assembled



11-11-24 WAWA #5452 ORLANDO, FL

Project Issue Information

Issue Name : All RTUs - No Turning Vanes
Description : There are no turning vanes installed in any of the RTU supply drops.
Created By : National TAB **Assigned To :** National TAB - Stephen Tassinaro
Status : Open
Priority : Urgent **Asset Tag :**
Originated Date : 11/13/2024 - Stephen Tassinaro - National TAB

Project Issue File Details



11/13/2024



11/13/2024



11/13/2024

11-11-24 WAWA #5452 ORLANDO, FL

Project Issue Information

Issue Name : EF-1 Missing Backdraft Damper
Description : There is no backdraft damper installed in the EF-1 drop.
Created By : National TAB **Assigned To :** National TAB - Stephen Tassinaro
Status : Open
Priority : Medium **Asset Tag :**
Originated Date : 11/13/2024 - Stephen Tassinaro - National TAB

Project Issue File Details



11/13/2024

Project Issue Response Details

- **11/15/2024 National TAB - Stephen Tassinaro**
 - Unable to confirm if backdraft damper was added when curb adapter was installed. Fan was jammed onto the curb adapter and NTi tech was unable to separate without risking damage to fan.

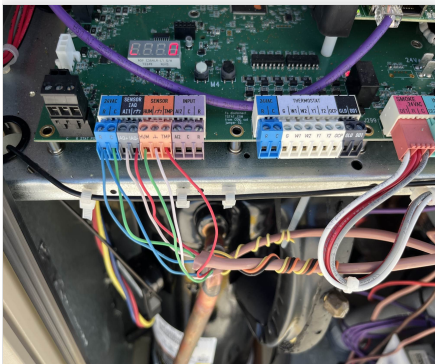


11-11-24 WAWA #5452 ORLANDO, FL

Project Issue Information

Issue Name : Remote Sensor Wire Incorrect Type
Description : All remote sensors were ran with generic thermostat cable. Qty (2) 2-wire shielded cables are to be used for each temp/humidity sensor.
Created By : National TAB **Assigned To :** National TAB - Stephen Tassinaro
Status : Open
Priority : High **Asset Tag :**
Originated Date : 11/13/2024 - Stephen Tassinaro - National TAB

Project Issue File Details



11/13/2024

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Project Issue Information

Issue Name : RTU Return Grille Sizing
Description : All RTUs call for G-1 return grilles. A G-1 air device is specified to have a 20"x20" neck and a face size of "NECK+3-3/4". The installed grilles are undersized and measure ~17"x17", with an open area of ~15.5"x15.5".
Created By : National TAB **Assigned To :** National TAB - Stephen Tassinaro
Status : Open
Priority : High **Asset Tag :**
Originated Date : 11/14/2024 - Stephen Tassinaro - National TAB

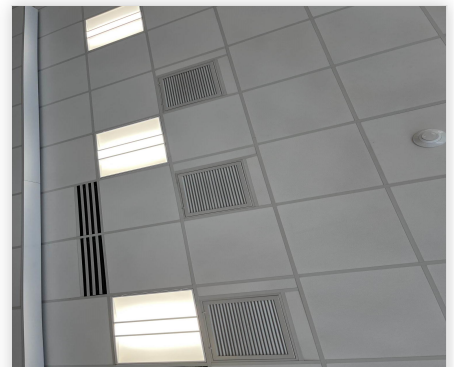
Project Issue File Details



11/14/2024



11/14/2024



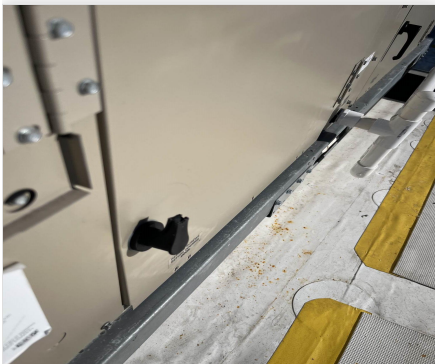
11/14/2024

11-11-24 WAWA #5452 ORLANDO, FL

Project Issue Information

Issue Name : RTU-1 Broken Handle
Description : RTU-1 has a broken handle on the filter access door. Recommend replacement.
Created By : National TAB **Assigned To :** National TAB - Stephen Tassinaro
Status : Open
Priority : Low **Asset Tag :**
Originated Date : 11/13/2024 - Stephen Tassinaro - National TAB

Project Issue File Details



11/13/2024

11-11-24 WAWA #5452 ORLANDO, FL

Project Issue Information

Issue Name : RTU-1 OA Hood Not Assembled
Description : The outside air hood is not assembled on RTU-1. NTi tech temporarily removed the panel in front of the outside air damper to reduce restriction on the unit. The hood assembly will need to be installed to accurately set the outside air on this RTU.
Created By : National TAB **Assigned To :** National TAB - Stephen Tassinaro
Status : Open
Priority : Urgent **Asset Tag :**
Originated Date : 11/13/2024 - Stephen Tassinaro - National TAB

Project Issue File Details



11/13/2024



11/13/2024

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	3400	3462	2790	2852	610	610	17.9%	17.6%						
RTU-2	FOOD SERVICE	5000	5006	4100	4068	900	938	18.0%	18.7%						
RTU-3	RETAIL	3000	3026	2460	2477	540	549	18.0%	18.1%						
EF-1	FOOD SERVICE													1550	1605
EF-2	WATER SRV RM													60	59
TOTALS		11400	11494	9350	9397	2050	2097			0	0	0	0	1610	1664

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	2050	2097
TOTAL EXHAUST	1610	1664
NET AIRFLOW	440	433

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H2O)
FRONT	0.004
SIDE	0.003
REAR	0.003
AVERAGE	0.0033

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:

Actual RTU-1 outdoor air value is unknown at this time due to a lack of outside air hood assembly. The damper is functional and has been set to an average value based on other Wawa locations.

CheckList List

- 01: RTU's/AHU's
- 02: LENNOX SETUP PARAMETERS
- 03: SENSOR WIRING (LENNOX
- 04: EF'S
- 05: CLOSEOUT CHECKS
- SMOKE DETECTOR TESTING



11-11-24 WAWA #5452 ORLANDO, FL

CheckList Information

Name : 01: RTU's/AHU's **Status :** Not Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 11/13/2024 - Brianna Biggs - National TAB

CheckList Item Details

RTU's/AHU's

All diffusers and grilles are installed and match design? Pass

Comment:

Note: Return grilles appear to be smaller than shown on air device schedule. Recommend confirming with Wawa/Engineer.

Clean filters installed? Pass

Comment:

Economizers are assembled and functional? Pass

Comment:

Economizers functional, but RTU-1 outside air hood is not assembled.

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:

Electric Heat

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:

RTU 1: FAIL - Outside air not able to be balanced due to lack of hood assembly.

No alarms present?

Pass

Comment:

Any noticeable duct leakage?

Pass

Comment:

No noticeable duct leakage

Total supply and OA flows are balanced within +/-5% and supply & return diffusers within +/-10%?

Pass

Comment:

RTU 1: FAIL - See note above.

IN TEST MODE, TEST THE FOLLOWING:

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

Comment:

RTU 1: 71F/55F // RTU 3: 72F/56F // RTU 2: 68F/55F

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

Pass

Comment:

RTU 1: 76F/82F // RTU 3: 75F/77F // RTU 2 - No Heat

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

Pass

Comment:

RTU 1: 76F/73F // RTU 3: 72F/66F // RTU 2: 69F/68F - Reheat coil warm for all tests



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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 : 11/13/2024 - Brianna Biggs - 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:

Set to 1200PPM per controls specifications.

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:

RTU 1 will need parameter set once OA is finalized.

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:

RTU 1: 58% / RTU 2: 90% / RTU 3: 59%

HIGH COOL CFM VALUE: THE HIGH COOL CFM VALUE

Pass

Comment:

RTU 1: 58% / RTU 2: 90% / RTU 3: 59%

LOW COOL CFM VALUE: MATCH THE HIGH COOL CFM VALUE

Pass

Comment:

RTU 1: 58% / RTU 2: 90% / RTU 3: 59%

VENTILATION CFM VALUE: MATCH THE HIGH COOL CFM VALUE

Pass

Comment:

RTU 1: 58% / RTU 2: 90% / RTU 3: 59%



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CheckList Information

Name : 03: SENSOR WIRING (LENNOX) **Status :** Not Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 11/13/2024 - Brianna Biggs - 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. Fail

Comment:

Single thermostat cable used for all sensors

For second shielded cable, one wire is landed to Vout and the shield wire is not connected. Fail

Comment:

Verify that the CORE or Prodigy controller is sensing a relative humidity (record the reading) Pass

Comment:

RTU 1: 59% / RTU 2: 55% / RTU 3: 56%



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11-11-24 WAWA #5452 ORLANDO, FL

CheckList Information

Name : 04: EF'S **Status :** Not Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 11/13/2024 - Brianna Biggs - 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?	Fail
---	------

Comment:

EF-1 no backdraft damper installed

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 :** Not Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 11/13/2024 - Brianna Biggs - 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:

There is a hum from the return grilles on RTU-2. Potentially due to their smaller size. Not expected to be heard over store music.

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:



11-11-24 WAWA #5452 ORLANDO, FL

CheckList Information

Name : SMOKE DETECTOR TESTING **Status :** Not Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 11/13/2024 - Brianna Biggs - National TAB

CheckList Item Details

MANUFACTURER

Comment:

SYSTEM SENSOR

MODEL #

Comment:

LD4S

DESIGN PRESSURE RANGE

Comment:

0.01 - 1.11

ACTUAL PRESSURE RANGE

Comment:



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Project: 11-11-24 WAWA #5452 ORLANDO, FL

System/Unit: AHU/RTU



Asset: RTU1

AREA:

Unit Data		
	Design	Actual
MFG	LENNOX ENLIGHT	LENNOX ENLIGHT
Serial Num	-	5624D06270
Model Num	LCT102H4E	LCT102H4EG1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	*
OA Filter Size 1	-	*
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Test Data		
	Design	Actual
SF CFM	3400	3462
SF RPM	-	1298
RA CFM	2790	*
OA CFM	610	*
RL Voltage	-	212/213/213
RL Amperage	-	2.3/2.2/2.3
SF System SetPt	-	59%
OA Damper Position	-	35%
OA Damper Type	-	SINGLE BLADE

Motor Data		
	Design	Actual
Horsepower	3.75	3.8
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	8.7

Performance Data		
	Design	Actual
MA Plenum SP	-	*
Fan Suction SP	-	*
Fan Discharge SP	-	*

Drive Data	
	Actual
Motor Sheave SetPt	DD

Completed By: Stephen Tassinaro on 11/14/2024

Notes:

* Outside air hood not installed. Outside air damper set to a reasonable starting point but will need to be adjusted once hood assembly is installed. Static pressures to be taken once outside air is finalized.

Written By: Stephen Tassinaro on 11/14/2024



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Project:11-11-24 WAWA #5452 ORLANDO, FL

AHU/RTU



Diffuser Supply (GRD)

RTU1/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
RTU1-SGRD1				300	1	461	365	330	110.0
RTU1-SGRD2				300	1	439	378	282	94.0
RTU1-SGRD3				300	1	325	327	285	95.0
RTU1-SGRD4				150	1	199	186	149	99.3
RTU1-SGRD5				150	1	184	192	157	104.7
RTU1-SGRD6				300	1	383	383	314	104.7
RTU1-SGRD7				310	1	397	392	331	106.8
RTU1-SGRD8				310	1	357	455	314	101.3
RTU1-SGRD9				285	1	303	365	313	109.8
RTU1-SGRD10				285	1	303	292	301	105.6
RTU1-SGRD11				200	1	200	218	181	90.5
RTU1-SGRD12				285	1	375	384	296	103.9
RTU1-SGRD13				50	1	71	96	47	94.0
RTU1-SGRD14				100	1	111	77	91	91.0
RTU1-SGRD15				75	1	86	94	71	94.7
Total				3400		4194	4204	3462	101.82%

Completed By: Stephen Tassinaro on 11/14/2024



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Project: 11-11-24 WAWA #5452 ORLANDO, FL

System/Unit: AHU/RTU



Asset: RTU2

AREA:

Unit Data		
	Design	Actual
MFG	LENNOX ENLIGHT	LENNOX ENLIGHT
Serial Num	-	5624B06853
Model Num	LCT150H4E	LCT150H4EN1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	23.25X14
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Motor Data		
	Design	Actual
Horsepower	3.75	3.8
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	8.7

Drive Data	
	Actual
Motor Sheave SetPt	DD

Test Data		
	Design	Actual
SF CFM	5000	5006
SF RPM	-	1977
RA CFM	4100	4068
OA CFM	900	938
RL Voltage	-	212/213/214
RL Amperage	-	7.3/7.4/7.5
SF System SetPt	-	90%
OA Damper Position	-	39%
OA Damper Type	-	SINGLE BLADE

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.73"
Fan Suction SP	-	-1.30"
Fan Discharge SP	-	0.72"
Total ESP	0.5"	1.45"
Fan Total SP	-	2.02"

Completed By: Stephen Tassinaro on 11/14/2024



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Project:11-11-24 WAWA #5452 ORLANDO, FL

AHU/RTU



Diffuser Supply (GRD)

RTU2/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
RTU2-SGRD1				500	1	537	484	525	105.0
RTU2-SGRD2				500	1	467	480	520	104.0
RTU2-SGRD3				500	1	396	438	475	95.0
RTU2-SGRD4				500	1	452	505	547	109.4
RTU2-SGRD5				500	1	300	448	486	97.2
RTU2-SGRD6				500	1	470	434	471	94.2
RTU2-SGRD7				500	1	455	477	518	103.6
RTU2-SGRD8				375	1	323	348	377	100.5
RTU2-SGRD9				500	1	485	463	502	100.4
RTU2-SGRD10				75	1	130	65	70	93.3
RTU2-SGRD11				550	1	369	475	515	93.6
Total				5000		4384	4617	5006	100.12%

Diffuser Ret/Exh (GRD)

RTU2/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
RTU2-EGRD1				900	1	1137	852	954	106.0
RTU2-EGRD2				800	1	734	732	820	102.5
RTU2-EGRD3				800	1	631	689	772	96.5
RTU2-EGRD4				800	1	668	715	801	100.1
RTU2-EGRD5				800	1	439	638	721	90.1
Total				4100		3609	3626	4068	99.22%

Completed By: Stephen Tassinaro on 11/14/2024



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Project: 11-11-24 WAWA #5452 ORLANDO, FL

System/Unit: AHU/RTU



Asset: RTU3

AREA:

Unit Data		
	Design	Actual
MFG	LENNOX ENLIGHT	LENNOX ENLIGHT
Serial Num	-	5624C06195
Model Num	LCT092H4E	LCT092H4EG1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	23.25X14
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Test Data		
	Design	Actual
SF CFM	3000	3026
SF RPM	-	1275
RA CFM	2460	2477
OA CFM	540	549
RL Voltage	-	214/213/214
RL Amperage	-	2.2/2.3/2.2
SF System SetPt	-	58%
OA Damper Position	-	35%
OA Damper Type	-	SINGLE BLADE

Motor Data		
	Design	Actual
Horsepower	3.75	3.8
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	8.7

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.38"
Fan Suction SP	-	-0.59"
Fan Discharge SP	-	0.40"
Total ESP	0.5"	0.78"
Fan Total SP	-	0.99"

Drive Data	
	Actual
Motor Sheave SetPt	DD

Completed By: Stephen Tassinaro on 11/14/2024



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Project:11-11-24 WAWA #5452 ORLANDO, FL



AHU/RTU

Diffuser Supply (GRD)

RTU3/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
RTU3-SGRD1				500	1	651	705	513	102.6
RTU3-SGRD2				350	1	441	475	355	101.4
RTU3-SGRD3				350	1	579	493	341	97.4
RTU3-SGRD4				300	1	453	524	304	101.3
RTU3-SGRD5				300	1	470	415	312	104.0
RTU3-SGRD6				300	1	398	434	323	107.7
RTU3-SGRD7				300	1	536	414	292	97.3
RTU3-SGRD8				300	1	345	399	299	99.7
RTU3-SGRD9				300	1	392	528	287	95.7
Total				3000		4265	4387	3026	100.87%

Completed By: Stephen Tassinaro on 11/14/2024



National TAB

Project: 11-11-24 WAWA #5452 ORLANDO, FL
System/Unit: FAN - Exhaust



Asset: EF1

AREA:

Unit Data		
	Design	Actual
MFG	GREENHECK	CAPTIVE AIRE
Model Num	G-160	DR85HFA
Serial Num	-	6823753
Type	DOWNBLAST	CENTRIFUGAL
Configuration	VERTICAL	DOWNBLAST

Test Data		
	Design	Actual
CFM	1550	1605
Fan RPM	700	1341
Fan Rotation	-	CORRECT
Motor RPM	-	1341
System SetPt	-	70%
RL Voltage	-	120
RL Amperage	-	7.9
Total ESP	0.250"	*
Fan Inlet SP	-	*
Fan Discharge SP	-	ATM

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Frame	-	48
Horsepower	3/4	0.75
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	8.9

Completed By: Stephen Tassinaro on 11/14/2024

Notes:
*Fan jammed onto curb adapter and could not be lifted to take static pressure measurement.

Written By: Stephen Tassinaro on 11/14/2024



National TAB

Project:11-11-24 WAWA #5452 ORLANDO, FL

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	FOOD SERVICE #2	G-1	10"	400	1	231	269	374	93.5
EF1-EGRD2	FOOD SERVICE #2	G-1	12"	500	1	328	401	529	105.8
EF1-EGRD3	FOOD SERVICE #2	G-1	10"	300	1	271	244	325	108.3
EF1-EGRD4	STAGING	G-1	8"	100	1	185	80	107	107.0
EF1-EGRD5	MENS RR	G-3	6"	100	1	96	96	109	109.0
EF1-EGRD6	MENS RR	G-3	6"	50	1	91	91	52	104.0
EF1-EGRD7	WOMENS RR	G-3	6"	100	1	88	88	109	109.0
Total				1550		1290	1269	1605	103.55%



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System/Unit: FAN - Exhaust



Asset: EF2

AREA:

Unit Data		
	Design	Actual
MFG	GREENHECK	CAPTIVE AIRE
Model Num	CSP-B110	SIF9DD
Serial Num	-	5823753
Type	INLINE	INLINE
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
Horsepower	21W	0.060
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.1

Test Data		
	Design	Actual
CFM	60	59
Fan RPM	584	DD
Fan Rotation	-	CORRECT
Motor RPM	-	DD
System SetPt	-	SPEED CONTROLLER
Total ESP	0.125"	0.05"
Fan Inlet SP	-	-0.04"
Fan Discharge SP	-	0.01"

Completed By: Stephen Tassinaro on 11/14/2024