

Report By:

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Report: TAB Report
Function: Test, Adjust, & Balance
Date: 11/13/2024
Completed By: National TAB

PROJECT
11-11-24 WAWA #5438 ALACHUA, FL

16304 NW US HWY 441

ALACHUA, FL 32615

Client

Wawa
260 West Baltimore Pike
Wawa, PA 19063

National TAB

Project: 11-11-24 WAWA #5438 ALACHUA, 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

- RTU-3 Outside Air Damper



11-11-24 WAWA #5438 ALACHUA, FL

Project Issue Information

Issue Name : RTU-3 Outside Air Damper
Description : RTU-3 Outside Air damper is non-functional. Damper was manually set and marked. 11/25/2024 - Damper motor not repaired. Discussed with MC and they will be setting the damper to the marked position once repaired. Damper currently locked at design airflow.
Created By : National TAB **Assigned To :** National TAB - Kristopher Passley
Status : Open
Priority : Medium **Asset Tag :**
Originated Date : 11/12/2024 - Kristopher Passley - National TAB

Project Issue File Details



11/12/2024



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 | 3417 | 2790 | 2817 | 610 | 600 | 17.9% | 17.6% | | | | | | |
| RTU-2 | FOOD SERVICE | 5000 | 4885 | 4100 | 4066 | 900 | 819 | 18.0% | 16.8% | | | | | | |
| RTU-3 | RETAIL | 3000 | 2899 | 2460 | 2347 | 540 | 552 | 18.0% | 19.0% | | | | | | |
| EF-1 | RESTROOMS | | | | | | | | | | | | | 1550 | 1553 |
| EF-2 | WATER SRV RM | | | | | | | | | | | | | 60 | 63 |
| TOTALS | | 11400 | 11201 | 9350 | 9230 | 2050 | 1971 | | | 0 | 0 | 0 | 0 | 1610 | 1616 |

NET BUILDING AIRFLOW CALCULATION

| TOTALS | DESIGN | ACTUAL |
|--------------------|------------|------------|
| TOTAL OA | 2050 | 1971 |
| TOTAL EXHAUST | 1610 | 1616 |
| NET AIRFLOW | 440 | 355 |

| DOOR TESTED | BUILDING PRESSURE MEASUREMENTS (IN. H2O) |
|----------------|--|
| FRONT | 0.006 |
| SIDE | 0.006 |
| REAR | 0.005 |
| AVERAGE | 0.0057 |

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

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



11-11-24 WAWA #5438 ALACHUA, FL

CheckList Information

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

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 10/25/2024 - Brianna Biggs - 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? Fail

Comment:

RTU-3 OA MOTOR IS LOCKED AT DESIGN SETPOINT. RECOMMEND INSTALLING NEW MOTOR SO THAT DAMPER CLOSES WHEN UNIT IS TURNED OFF. // RTU-1 AND RTU-2 OA DAMPERS ARE FULLY OPERATIONAL.

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:

Pass

Comment:

RTU-1 - EAT 72 Deg F, LAT 55 Deg F RTU-2 - EAT 70 Deg F, LAT 56 Deg F RTU-3 - EAT 71 Deg F, LAT 56 Deg F

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

Pass

Comment:

RTU-1 - EAT 74 Deg F, LAT 82 Deg F RTU-2 -NA, NA RTU-3 - EAT 73 Deg F, LAT 83 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 72 Deg F, LAT 66 Deg F RTU-2 - EAT 72 Deg F, LAT 66 Deg F RTU-3 - EAT 70 Deg F, LAT 65 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 : 10/25/2024 - Brianna Biggs - National TAB

Completed Date : 11/14/2024 - Kristopher Passley - National TAB

CheckList Item Details

UNIT ID CONFIGURATIONS

BACNET CONFIGURATION: GO TO SETTINGS>GENERAL>CONFIGURATION ID1 POSITION 5 SET TO "N". Pass

Comment:

Per Plans Position 5 Set to "B"

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:

As Per Plan 1200

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 - 57% RTU-2 - 84% RTU-3 - 64%

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:



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CheckList Information

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

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 10/25/2024 - Brianna Biggs - National TAB

Completed Date : 11/14/2024 - Kristopher Passley - 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:

RTU-1: 56% HUMIDITY RTU-2: 58% HUMIDITY RTU-3: 58% HUMIDITY



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CheckList Information

Name : 04: EF'S **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 10/25/2024 - Brianna Biggs - National TAB

Completed Date : 11/14/2024 - Kristopher Passley - National TAB

CheckList Item Details

EF's

| | |
|-----------------------------|------|
| Rotation is correct? | Pass |
|-----------------------------|------|

Comment:

| | |
|---|-----|
| Belts are tight (if applicable)? | N/A |
|---|-----|

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 : 10/25/2024 - Brianna Biggs - National TAB

Completed Date : 11/14/2024 - Kristopher Passley - 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:



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Project: 11-11-24 WAWA #5438 ALACHUA, FL

System/Unit: AHU/RTU



Asset: RTU1

AREA:RETAIL

| Unit Data | | |
|---------------------|-------------------|-------------------|
| | Design | Actual |
| MFG | LENNOX ENLIGHT | LENNOX ENLIGHT |
| Serial Num | - | 5624BP6865 |
| Model Num | LCT102H4E | LCT102H4EG1Y |
| Type | RTU | RTU |
| Configuration | VERTICAL | VERTICAL |
| Num OA Filters 1 | - | 1 |
| OA Filter Size 1 | - | 14.25"X23.25" |
| Num Final Filter 1 | - | 4 |
| Final Filter Size 1 | - | 20"X25"X2" |

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

| 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 | 3400 | 3417 |
| SF RPM | - | 1254 |
| MOTOR RPM | - | 1254 |
| RA CFM | 2790 | 2817 |
| OA CFM | 610 | 600 |
| RL Voltage | - | 211/211/211 |
| RL Amperage | - | 2.2/2.3/2.2 |
| SF System SetPt | - | 57% |
| RA Damper Position | - | NA |
| RA Damper Type | - | NA |
| OA Damper Position | - | 52% |
| OA Damper Type | - | SINGLE BLADE |

| Performance Data | | |
|------------------|--------|---------|
| | Design | Actual |
| MA Plenum SP | - | -0.265 |
| Fan Suction SP | - | -0.538" |
| Fan Discharge SP | - | 0.248" |
| Total ESP | 0.5" | 0.513" |
| Fan Total SP | - | 0.786 |

Completed By: Kristopher Passley on 11/13/2024

Unit Data - PHOTO LOG



11/13/2024



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Project: 11-11-24 WAWA #5438 ALACHUA, FL

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" | 315 | 1 | 441 | 389 | 292 | 92.7 |
| SGRD2 | RETAIL | LD1 | 10" | 300 | 1 | 487 | 421 | 316 | 105.3 |
| SGRD3 | RETAIL | LD1 | 10" | 300 | 1 | 508 | 426 | 320 | 106.7 |
| SGRD4 | RETAIL | LD1 | 10" | 300 | 1 | 361 | 408 | 306 | 102.0 |
| SGRD5 | RETAIL | LD1 | 10" | 300 | 1 | 303 | 365 | 275 | 91.7 |
| SGRD6 | ASSOCIATES | CD1 | 8" | 150 | 1 | 203 | 214 | 161 | 107.3 |
| SGRD7 | OFFICE | CD1 | 8" | 150 | 1 | 185 | 196 | 147 | 98.0 |
| SGRD8 | RETAIL | LD1 | 10" | 315 | 1 | 540 | 427 | 320 | 101.6 |
| SGRD9 | RETAIL | LD1 | 10" | 285 | 1 | 363 | 387 | 290 | 101.8 |
| SGRD10 | DELIVERY VESTIBULE | CD1 | 8" | 200 | 1 | 214 | 243 | 182 | 91.0 |
| SGRD11 | RETAIL | LD1 | 10" | 280 | 1 | 384 | 409 | 307 | 109.6 |
| SGRD12 | RETAIL | LD1 | 10" | 280 | 1 | 342 | 359 | 269 | 96.1 |
| SGRD13 | WOMENS RR | CD3 | 6" | 50 | 1 | 72 | 66 | 50 | 100.0 |
| SGRD14 | MENS RR | CD3 | 6" | 75 | 1 | 95 | 106 | 80 | 106.7 |
| SGRD15 | REAR VESTIBULE | CD3 | 6" | 100 | 1 | 72 | 140 | 105 | 105.0 |
| Total | | | | 3400 | | 4570 | 4556 | 3420 | 100.59% |

Completed By: Kristopher Passley on 11/13/2024



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Project: 11-11-24 WAWA #5438 ALACHUA, FL

System/Unit: AHU/RTU



Asset: RTU2

AREA:FOOD SERVICE

| Unit Data | | |
|---------------------|----------------|----------------|
| | Design | Actual |
| MFG | LENNOX ENLIGHT | LENNOX ENLIGHT |
| Serial Num | - | 5624B04844 |
| Model Num | LCT150H4E | LCT150H4EN1Y |
| Type | RTU | RTU |
| Configuration | VERTICAL | VERTICAL |
| Num OA Filters 1 | - | 1 |
| OA Filter Size 1 | - | 14.5"X23.25" |
| Num Final Filter 1 | - | 4 |
| Final Filter Size 1 | - | 20"X25"X2" |

| 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 |

| 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 | 5000 | 4885 |
| SF RPM | - | 1848 |
| MOTOR RPM | - | 1848 |
| RA CFM | 4100 | 4066 |
| OA CFM | 900 | 819 |
| RL Voltage | - | 211/212/212 |
| RL Amperage | - | 5.7/5.8/5.7 |
| SF System SetPt | - | 84% |
| RA Damper Position | - | NA |
| RA Damper Type | - | NA |
| OA Damper Position | - | 50% |
| OA Damper Type | - | SINGLE BLADE |

| Performance Data | | |
|------------------|--------|---------|
| | Design | Actual |
| MA Plenum SP | - | -0.557" |
| Fan Suction SP | - | -0.969" |
| Fan Discharge SP | - | 0.616" |
| Total ESP | 0.5" | 1.173" |
| Fan Total SP | - | 1.585" |

Completed By: Stephen Tassinaro on 11/26/2024

Unit Data - PHOTO LOG



11/13/2024



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Project: 11-11-24 WAWA #5438 ALACHUA, 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 | FOOD SERVICE | LD1 | 12" | 500 | 1 | 659 | 502 | 530 | 106.0 |
| SGRD2 | FOOD SERVICE | LD1 | 12" | 500 | 1 | 583 | 524 | 540 | 108.0 |
| SGRD3 | FOOD SERVICE | LD1 | 12" | 500 | 1 | 698 | 471 | 490 | 98.0 |
| SGRD4 | FOOD SERVICE | LD1 | 12" | 550 | 1 | 542 | 543 | 524 | 95.3 |
| SGRD5 | FOOD SERVICE | LD1 | 12" | 550 | 1 | 546 | 520 | 543 | 98.7 |
| SGRD6 | FOOD SERVICE | LD1 | 12" | 550 | 1 | 627 | 504 | 509 | 92.5 |
| SGRD7 | BACKROOM | CD1 | 10" | 400 | 1 | 167 | 362 | 376 | 94.0 |
| SGRD8 | WASHROOM | LD1 | 10" | 450 | 1 | 288 | 423 | 425 | 94.4 |
| SGRD9 | BACKROOM | CD1 | 10" | 400 | 1 | 320 | 361 | 361 | 90.3 |
| SGRD10 | ELECTRICAL ROOM | CD1 | 12" | 550 | 1 | 349 | 508 | 533 | 96.9 |
| SGRD11 | STAGING | CD1 | 6" | 50 | 1 | 92 | 55 | 54 | 108.0 |
| Total | | | | 5000 | | 4871 | 4773 | 4885 | 97.7% |

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 | G1 | 14" | 950 | 1 | 883 | 937 | 970 | 102.1 |
| EGRD2 | FOOD SERVICE | G1 | 12" | 730 | 1 | 633 | 668 | 670 | 91.8 |
| EGRD3 | FOOD SERVICE | G1 | 12" | 735 | 1 | 620 | 678 | 700 | 95.2 |
| EGRD4 | FOOD SERVICE | G1 | 12" | 735 | 1 | 644 | 668 | 675 | 91.8 |
| EGRD5 | FOOD SERVICE | G1 | 14" | 950 | 1 | 830 | 880 | 880 | 92.6 |
| Total | | | | 4100 | | 3610 | 3831 | 3895 | 95% |

Completed By: Kristopher Passley on 11/13/2024



National TAB

Project: 11-11-24 WAWA #5438 ALACHUA, FL

System/Unit: AHU/RTU



Asset: RTU3

AREA:RETAIL

| Unit Data | | |
|---------------------|----------------|----------------|
| | Design | Actual |
| MFG | LENNOX ENLIGHT | LENNOX ENLIGHT |
| Serial Num | - | 5623H08941 |
| Model Num | LCT092H4E | LCT092H4EG1Y |
| Type | RTU | RTU |
| Configuration | VERTICAL | VERTICAL |
| Num OA Filters 1 | - | 1 |
| OA Filter Size 1 | - | 14.25"X23.25" |
| Num Final Filter 1 | - | 4 |
| Final Filter Size 1 | - | 20"X25"X2" |

| 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 |

| 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 | 3000 | 2899 |
| SF RPM | - | 1408 |
| MOTOR RPM | - | 1408 |
| RA CFM | 2460 | 2347 |
| OA CFM | 540 | 552 |
| RL Voltage | - | 211/211/211/211 |
| RL Amperage | - | 2.6/2.6/2.6 |
| SF System SetPt | - | 64% |
| RA Damper Position | - | NA |
| RA Damper Type | - | NA |
| OA Damper Position | - | MANUAL SET 1" |
| OA Damper Type | - | SINGLE BLADE |

| Performance Data | | |
|------------------|--------|---------|
| | Design | Actual |
| MA Plenum SP | - | -0.652" |
| Fan Suction SP | - | -0.920" |
| Fan Discharge SP | - | 0.371" |
| Total ESP | 0.5" | 1.02" |
| Fan Total SP | - | 1.291 |

Completed By: Stephen Tassinaro on 11/25/2024

Notes:

Damper position set manually and marked on the damper shaft. Discussed with MC and they will be correctly setting the Damper % through the Lennox Core app once the damper motor is repaired/replaced.

Written By: Stephen Tassinaro on 11/25/2024

Unit Data - PHOTO LOG



11/13/2024



National TAB

Project: 11-11-24 WAWA #5438 ALACHUA, 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 | FRONT VESTIBULE | CD2 | 12" | 500 | 1 | 673 | 692 | 471 | 94.2 |
| SGRD2 | RETAIL | LD1 | 10" | 350 | 1 | 371 | 395 | 371 | 106.0 |
| SGRD3 | RETAIL | LD1 | 10" | 300 | 1 | 482 | 334 | 274 | 91.3 |
| SGRD4 | COFFEE/SPECIALTY BEV. | LD1 | 10" | 300 | 1 | 327 | 351 | 322 | 107.3 |
| SGRD5 | COFFEE/SPECIALTY BEV. | LD1 | 10" | 350 | 1 | 373 | 401 | 321 | 91.7 |
| SGRD6 | COFFEE/SPECIALTY BEV. | LD1 | 10" | 400 | 1 | 507 | 470 | 390 | 97.5 |
| SGRD7 | COFFEE/SPECIALTY BEV. | LD1 | 10" | 400 | 1 | 426 | 474 | 382 | 95.5 |
| SGRD8 | FOOD SERVICE | LD1 | 10" | 400 | 1 | 355 | 419 | 368 | 92.0 |
| Total | | | | 3000 | | 3514 | 3536 | 2899 | 96.63% |

Completed By: Stephen Tassinaro on 11/25/2024



National TAB

Project: 11-11-24 WAWA #5438 ALACHUA, FL

System/Unit: FAN - Exhaust



Asset: EF1

AREA:

| Unit Data | | |
|---------------|-----------|-------------------|
| | Design | Actual |
| MFG | GREENHECK | GREENHECK |
| Model Num | G-160 | G-160-7-VG-1-22-X |
| Serial Num | - | 25727942 24J |
| Type | DOWNBLAST | DOWNBLAST |
| Configuration | VERTIAL | VERTICAL |

| Test Data | | |
|------------------|--------|---------|
| | Design | Actual |
| CFM | 1550 | 1553 |
| Fan RPM | 700 | DD |
| Fan Rotation | - | CORRECT |
| Motor RPM | - | DD |
| System SetPt | - | 4.75 |
| RL Voltage | - | 120 |
| RL Amperage | - | 4.1 |
| Total ESP | 0.250" | 0.26 |
| Fan Inlet SP | - | -0.26" |
| Fan Discharge SP | - | ATM |

| Motor Data | | |
|------------------|--------|-----------------|
| | Design | Actual |
| Motor MFG | - | VARI-GREEN |
| Frame | - | NL |
| Horsepower | 3/4 | 3/4 |
| Motor Rpm | - | 300-1750 |
| Phase | 1 | 1 |
| Voltage (rated) | 120 | 115/208-230/277 |
| Amperage (rated) | - | 8.8/5.4/4.8 |
| Service Factor | - | NL |

Completed By: Stephen Tassinaro on 11/25/2024

Unit Data - PHOTO LOG



11/13/2024



National TAB

Project: 11-11-24 WAWA #5438 ALACHUA, 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 |
| EGRD1 | FOOD SERVICE | G1 | 12" | 500 | 1 | 370 | 456 | 509 | 101.8 |
| EGRD2 | FOOD SERVICE | G1 | 10" | 300 | 1 | 305 | 377 | 294 | 98.0 |
| EGRD3 | FOOD SERVICE | G1 | 10" | 400 | 1 | 265 | 346 | 385 | 96.3 |
| EGRD4 | WOMENS RR | G3 | 6" | 100 | 1 | 33 | 39 | 99 | 99.0 |
| EGRD5 | MENS RR | G3 | 6" | 50 | 1 | 33 | 75 | 52 | 104.0 |
| EGRD6 | MENS RR | G3 | 6" | 100 | 1 | 138 | 138 | 106 | 106.0 |
| EGRD7 | STAGING | G1 | 8" | 100 | 1 | 269 | 336 | 108 | 108.0 |
| Total | | | | 1550 | | 1413 | 1767 | 1553 | 100.19% |

Completed By: Stephen Tassinaro on 11/25/2024



National TAB

Project: 11-11-24 WAWA #5438 ALACHUA, FL

System/Unit: FAN - Exhaust



Asset: EF2

AREA:

| Unit Data | | |
|---------------|------------|------------|
| | Design | Actual |
| MFG | GREENHECK | FANTECH |
| Model Num | CSP-B110 | FG4/K4 |
| Serial Num | - | 1008898722 |
| Type | INLINE | INLINE |
| Configuration | HORIZONTAL | HORIZONTAL |

| Motor Data | | |
|------------------|--------|---------|
| | Design | Actual |
| Motor MFG | - | FANTECH |
| Frame | - | NL |
| Horsepower | 21W | 25W |
| Motor Rpm | - | NL |
| Phase | 1 | 1 |
| Voltage (rated) | 120 | 120 |
| Amperage (rated) | - | 0.18 |
| Service Factor | - | NL |

| Test Data | | |
|------------------|--------|---------|
| | Design | Actual |
| CFM | 60 | 63 |
| Fan RPM | 584 | NA |
| Fan Rotation | - | CORRECT |
| Motor RPM | - | NAH |
| System SetPt | - | MAX |
| RL Voltage | - | 120 |
| RL Amperage | - | .15 |
| Total ESP | 0.125" | 0.05" |
| Fan Inlet SP | - | -0.05" |
| Fan Discharge SP | - | ATM |

Completed By: Kristopher Passley on 11/13/2024

Unit Data - PHOTO LOG



11/13/2024

