**Report By:**

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

**Report: TAB REPORT**

**Function: Test, Adjust, & Balance**

**Date: 09/10/2025**

**Completed By: National TAB**

# PROJECT

## 09-08-25 WAWA #6110 WILSON, NC

1600 FOREST HILLS ROAD

WILSON, NC 72893

Client

Wawa

260 West Baltimore Pike

Wawa, PA 19063

# National TAB

**Project: 09-08-25 WAWA #6110 WILSON, NC**

## Table Of Contents

## 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 1 low flow
- Heating mode not operational
- RTU 2 alarm
- Vibrating noise on return

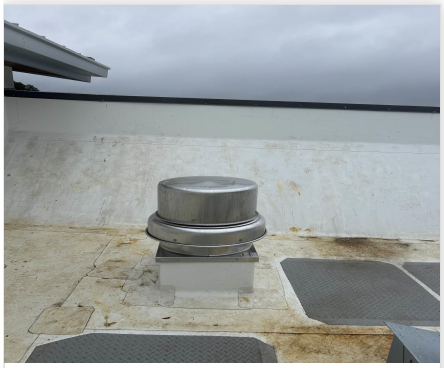
## 09-08-25 WAWA #6110 WILSON, NC

### Project Issue Information

**Issue Name :** EF 1 low flow
**Description :** EF 1 currently at 88% of design, pulley at max turns in.

**Created By :** National TAB
**Assigned To :** National TAB - Brianna Biggs
**Status :** Open
**Priority :** Low
**Asset Tag :** EF1
**Originated Date :** 09/10/2025 - Jearod Ferrette - National TAB

Project Issue File Details



**09/10/2025**

## 09-08-25 WAWA #6110 WILSON, NC

### Project Issue Information

**Issue Name :** Heating mode not operational
**Description :** Heating mode not operational unable to perform test

**Created By :** National TAB
**Assigned To :** National TAB - Brianna Biggs
**Status :** Open
**Priority :** Low
**Asset Tag :** RTU2
**Originated Date :** 09/10/2025 - Jearod Ferrette - National TAB

Project Issue File Details

**09/10/2025**

## 09-08-25 WAWA #6110 WILSON, NC

### Project Issue Information

**Issue Name :** RTU 2 alarm
**Description :** RTU2 in alarm, DSI Board 1 Modbus Error

| | | | |
|---|---|---|---|
| **Created By :** | National TAB | **Assigned To :** | National TAB - Brianna Biggs |
| **Status :** | Open | | |
| **Priority :** | InfoOnly | **Asset Tag :** | RTU2 |
| **Originated Date :** | 09/09/2025 - Jearod Ferrette - National TAB | | |

Project Issue File Details

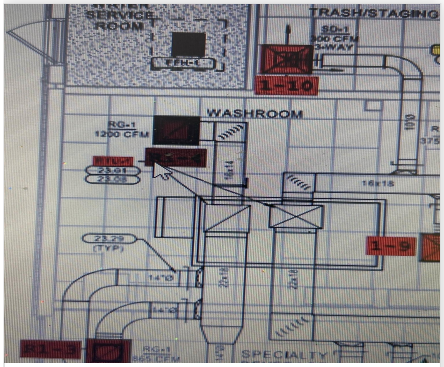
## 09-08-25 WAWA #6110 WILSON, NC

### Project Issue Information

**Issue Name :** Vibrating noise on return
**Description :** RTU1 KITCHEN RETURN #4 HAS A VIBRATING NOISE

**Created By :** National TAB
**Assigned To :** National TAB - Brianna Biggs
**Status :** Open
**Priority :** Low
**Asset Tag :** RTU1
**Originated Date :** 09/10/2025 - Jearod Ferrette - National TAB

Project Issue File Details




**09/10/2025**

NATIONAL TAB

CORE

## 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 SERVIC | 4500 | 4624 | 3800 | 3930 | 700 | 694 | 15.6% | 15.0% | | | | | | |
| RTU-2 | RETAIL | 3400 | 3413 | 3020 | 3022 | 380 | 391 | 11.2% | 11.5% | | | | | | |
| RTU-3 | FOH | 2400 | 2575 | 2200 | 2372 | 200 | 203 | 8.3% | 7.9% | | | | | | |
| EF-1 | RESTROOMS | | | | | | | | | | | | | 375 | 333 |
| EF-2 | BOH | | | | | | | | | | | | | 400 | 417 |
| EF-3 | TRASH | | | | | | | | | | | | | 200 | 215 |
| **TOTALS** | | 10300 | 10612 | 9020 | 9324 | 1280 | 1288 | | | 0 | 0 | 0 | 0 | 975 | 965 |

**NET BUILDING AIRFLOW CALCULATION**

| TOTALS | DESIGN | ACTUAL |
|---|---|---|
| TOTAL OA | 1280 | 1288 |
| TOTAL EXHAUST | 975 | 965 |
| **NET AIRFLOW** | 305 | 323 |

| DOOR TESTED | BUILDING PRESSURE MEASUREMENTS (IN. H20) |
|---|---|
| FRONT | 0.016 |
| SIDE | 0.004 |
| REAR | 0.006 |
| **AVERAGE** | **0.0087** |

**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

## 09-08-25 WAWA #6110 WILSON, NC

### CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | 01: RTU's/AHU's | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 08/20/2025 - Natasha Louw - National TAB | | |
| **Completed Date :** | 09/10/2025 - Jearod Ferrette - 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?** | Pass |

**Comment:**

| | |
|---|---|
| **Condensate drains are installed?** | Pass |

**Comment:**

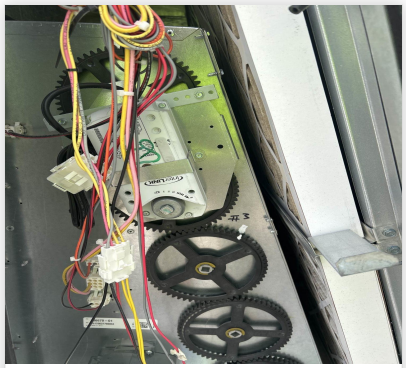
| | |
|---|---|
| **Unit free of noticeable noise and vibration** | Pass |

**Comment:**

| | |
|---|---|
| **Final outside air damper position is marked with permanent marker?** | Pass |

**Comment:**

**09/10/2025**



**09/10/2025**

**09/10/2025**

| | |
|---|---|
| **No alarms present?** | Fail |

**Comment:**

RTU2- DSI Board 1 Modbus Error

| | |
|---|---|
| **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:**<br><br>RTU1-EAT: 59 LAT: 67 RTU2 -EAT:56 LAT:66 RTU3-EAT:54 LAT: 66 | |
| **Heating mode is operational? Record EAT/LAT for each unit:** | Fail |
| **Comment:**<br><br>RTU2- NOT OPERATIONAL RTU3- EAT: 92 LAT: 69 | |
| **Dehumidification mode is operational? (Feel dehumidification coil with your hand. Is it hot?) Record EAT/LAT for each unit:** | Pass |
| **Comment:**<br><br>RTU1-EAT: 56 LAT: 67 RTU2- EAT:52 LAT:66 RTU3- EAT: 53 LAT 66 | |

# 09-08-25 WAWA #6110 WILSON, NC

## CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | 02: LENNOX SETUP PARAMETERS | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 08/20/2025 - Natasha Louw - National TAB | | |
| **Completed Date :** | 09/10/2025 - Jearod Ferrette - 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:**

RTU1 80%, RTU2 58%, RTU3 83%

| | |
|---|---|
| **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:** | |

# 09-08-25 WAWA #6110 WILSON, NC

## CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | 03: SENSOR WIRING (LENNOX) | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 08/20/2025 - Natasha Louw - National TAB | | |
| **Completed Date :** | 09/09/2025 - Jearod Ferrette - 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:** | |

# 09-08-25 WAWA #6110 WILSON, NC

## CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | 04: EF'S | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 08/20/2025 - Natasha Louw - National TAB | | |
| **Completed Date :** | 09/09/2025 - Jearod Ferrette - 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%?** | Fail |
| **Comment:**<br><br>EF1 currently at 88% of design pulled at max turns in. | |

# 09-08-25 WAWA #6110 WILSON, NC

## CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | 05: CLOSEOUT CHECKS | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 08/20/2025 - Natasha Louw - National TAB | | |
| **Completed Date :** | 09/10/2025 - Jearod Ferrette - 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?** | Fail |
| **Comment:** RTU1 KITCHEN RETURN #4 HAS A VIBRATING NOISE | |
| **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:** FRONT:0.016", SIDE 0.004", REAR 0.006" | |

# National TAB

**Project: 09-08-25 WAWA #6110 WILSON, NC**

## System/Unit: AHU/RTU

**Asset: RTU1** AREA:FOOD SERVICE

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | LENNOX | LENNOX |
| **Serial Num** | - | 5625D02814 |
| **Model Num** | LCT150H5E | LCT150H5E |
| **Type** | RTU | RTU |
| **Configuration** | VERTICAL | VERTICAL |
| **Num OA Filters 1** | - | 2 |
| **OA Filter Size 1** | - | 14X24 |
| **Num Final Filter 1** | - | 4 |
| **Final Filter Size 1** | - | 20X25X2 |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | EBMPAPST |
| **Frame** | - | NA |
| **Horsepower** | 3.75 | 3.75 |
| **Motor Rpm** | - | NA |
| **Phase** | 3 | 3 |
| **Rated Voltage** | 208 | 208 |
| **Rated Amperage** | - | NA |
| **Service Factor** | - | NA |

| 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 | 4624 |
| **SF RPM** | - | DD/ 80% |
| **MOTOR RPM** | - | DD/ 80% |
| **RA CFM** | 3800 | 3930 |
| **OA CFM** | 700 | 694 |
| **RL Voltage** | - | 210/209/209 |
| **RL Amperage** | - | 5.2/5.4/5.3 |
| **SF System SetPt** | - | 80% |
| **RA Damper Position** | - | 74% |
| **OA Damper Position** | - | 26% |
| **OA Damper Type** | - | ECON |

| Performance Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MA Plenum SP** | - | -0.25" |
| **Fan Suction SP** | - | -0.88" |
| **Fan Discharge SP** | - | 0.66" |
| **Total ESP** | - | 0.91" |
| **Fan Total SP** | - | 1.54" |

Completed By: Jearod Ferrette on 09/10/2025

## Unit Data - PHOTO LOG

**09/09/2025**

# National TAB

**Project:09-08-25 WAWA #6110 WILSON, NC**

## AHU/RTU

### Diffuser Supply (GRD)

**RTU1/FOOD SERVICE**

| Asset | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Asset Name** | **Location** | **Type** | **Size** | **DESIGN CFM** | **AK** | **CFM(1)** | **CFM(2)** | **FINAL CFM** | **% to design** |
| SGRD1 | COFFEE | SD-6 | 12" | 500 | 1 | 711 | 590 | 509 | 101.8 |
| SGRD2 | FOOD SERVICE | SD-6 | 10" | 425 | 1 | 684 | 567 | 427 | 100.5 |
| SGRD3 | FOOD SERVICE | SD-6 | 10" | 425 | 1 | 527 | 437 | 437 | 102.8 |
| SGRD4 | FOOD SERVICE | SD-6 | 10" | 425 | 1 | 429 | 356 | 456 | 107.3 |
| SGRD5 | FOOD SERVICE | SD-6 | 10" | 425 | 1 | 472 | 391 | 431 | 101.4 |
| SGRD6 | FOOD SERVICE | SD-6 | 10" | 425 | 1 | 510 | 423 | 424 | 99.8 |
| SGRD7 | FOOD SERVICE | SD-6 | 10" | 400 | 1 | 431 | 357 | 416 | 104.0 |
| SGRD8 | FOOD SERVICE | SD-6 | 10" | 400 | 1 | 477 | 395 | 405 | 101.3 |
| SGRD9 | FOOD SERVICE | SD-6 | 10" | 400 | 1 | 492 | 408 | 408 | 102.0 |
| SGRD10 | TRASH | SD-1 | 10" | 300 | 1 | 422 | 350 | 313 | 104.3 |
| SGRD11 | ELECTRICAL | SD-1 | 10" | 375 | 1 | 420 | 348 | 398 | 106.1 |
| Total | | | | 4500 | | 5575 | 4622 | 4624 | 102.76% |

### Diffuser Ret/Exh (GRD)

**RTU1/FOOD SERVICE**

| Asset | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Asset Name** | **Location** | **Type** | **Size** | **DESIGN CFM** | **AK** | **CFM(1)** | **CFM(2)** | **FINAL CFM** | **% to design** |
| EGRD1 | FOOD SERVICE | RG-1 | 14" | 870 | 1 | 836 | | 836 | 96.1 |
| EGRD2 | FOOD SERVICE | RG-1 | 14" | 865 | 1 | 861 | | 861 | 99.5 |
| EGRD3 | FOOD SERVICE | RG-1 | 14" | 865 | 1 | 867 | | 867 | 100.2 |
| EGRD4 | WASHROOM | RG-1 | 16X14 | 1200 | 1 | 1239 | | 1239 | 103.3 |
| Total | | | | 3800 | | 3803 | 0 | 3803 | 100.08% |

# National TAB

**Project: 09-08-25 WAWA #6110 WILSON, NC**

## System/Unit: AHU/RTU

**Asset: RTU2** AREA:RETAIL

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | LENNOX | LENNOX |
| **Serial Num** | - | 5625D02331 |
| **Model Num** | LGT102H5E | LGT102H5E |
| **Type** | RTU | RTU |
| **Configuration** | VERTICAL | VERTICAL |
| **Num OA Filters 1** | - | 2 |
| **OA Filter Size 1** | - | 14X24 |
| **Num Final Filter 1** | - | 4 |
| **Final Filter Size 1** | - | 20X25X2 |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | EBMPAPST |
| **Frame** | - | NA |
| **Horsepower** | 3.75 | 3.75 |
| **Motor Rpm** | - | NA |
| **Phase** | 3 | 3 |
| **Rated Voltage** | 208 | 208 |
| **Rated Amperage** | - | NA |
| **Service Factor** | - | NA |

| 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 | 3413 |
| **SF RPM** | - | DD/ 58% |
| **MOTOR RPM** | - | DD/ 58% |
| **RA CFM** | 3020 | 3022 |
| **OA CFM** | 380 | 391 |
| **RL Voltage** | - | 209/210/210 |
| **RL Amperage** | - | 4.9/5/4.9 |
| **SF System SetPt** | - | 58% |
| **RA Damper Position** | - | 73% |
| **OA Damper Position** | - | 27% |
| **OA Damper Type** | - | ECON |

| Performance Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MA Plenum SP** | - | -0.12" |
| **Fan Suction SP** | - | -0.50 |
| **Fan Discharge SP** | - | 0.39" |
| **Total ESP** | 1.00" | 0.62" |
| **Fan Total SP** | - | 0.89" |

Completed By: Jearod Ferrette on 09/10/2025

## Unit Data - PHOTO LOG

**09/09/2025**

# National TAB

**Project:09-08-25 WAWA #6110 WILSON, NC**

## AHU/RTU

**Diffuser Supply (GRD)**

**RTU2/RETAIL**

| Asset | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Asset Name** | **Location** | **Type** | **Size** | **DESIGN CFM** | **AK** | **CFM(1)** | **CFM(2)** | **FINAL CFM** | **% to design** |
| SGRD1 | RETAIL | SD-2 | 3X19 | 275 | 0.39 | 362 | 278 | 271 | 98.5 |
| SGRD2 | RETAIL | SD-2 | 3X19 | 275 | 0.39 | 393 | 302 | 274 | 99.6 |
| SGRD3 | RETAIL | SD-2 | 3X19 | 300 | 0.39 | 395 | 304 | 284 | 94.7 |
| SGRD4 | RETAIL | SD-2 | 3X19 | 275 | 0.39 | 397 | 305 | 288 | 104.7 |
| SGRD5 | RETAIL | SD-2 | 3X19 | 275 | 0.39 | 394 | 303 | 286 | 104.0 |
| SGRD6 | RETAIL | SD-2 | 3X19 | 275 | 0.39 | 276 | 212 | 282 | 102.5 |
| SGRD7 | RETAIL | SD-2 | 3X19 | 275 | 0.39 | 221 | 170 | 270 | 98.2 |
| SGRD8 | RETAIL | SD-2 | 3X19 | 275 | 0.39 | 370 | 284 | 284 | 103.3 |
| SGRD9 | RETAIL | SD-2 | 3X19 | 275 | 0.39 | 480 | 369 | 279 | 101.5 |
| SGRD10 | HALLWAY | SD-1 | 8" | 200 | 1 | 267 | 205 | 205 | 102.5 |
| SGRD11 | WOMENS RR | SD-5 | 8" | 100 | 1 | 233 | 179 | 108 | 108.0 |
| SGRD12 | REAR VESTIBULE | SD-5 | 8" | 200 | 1 | 238 | 183 | 202 | 101.0 |
| SGRD13 | MENS RR | SD-5 | 8" | 150 | 1 | 190 | 146 | 153 | 102.0 |
| SGRD14 | DELIVERY ROOM | SD-1 | 8" | 250 | 1 | 229 | 176 | 227 | 90.8 |
| Total | | | | 3400 | | 4445 | 3416 | 3413 | 100.38% |

# National TAB

**Project: 09-08-25 WAWA #6110 WILSON, NC**

## System/Unit: AHU/RTU

**Asset: RTU3** AREA:FOH

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | LENNOX | LENNOX |
| **Serial Num** | - | 5625E00867 |
| **Model Num** | LGT072H5E | LGT072H5E |
| **Type** | RTU | RTU |
| **Configuration** | VERTICAL | VERTICAL |
| **Num OA Filters 1** | - | 1 |
| **OA Filter Size 1** | - | 14X28 |
| **Num Final Filter 1** | - | 4 |
| **Final Filter Size 1** | - | 20X20X2 |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | EBMPAPST |
| **Frame** | - | NA |
| **Horsepower** | 1.5 | 1.5 |
| **Motor Rpm** | - | NA |
| **Phase** | 3 | 3 |
| **Rated Voltage** | 208 | 208 |
| **Rated Amperage** | - | NA |
| **Service Factor** | - | NA |

| 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 | 2575 |
| **SF RPM** | - | DD/ 83% |
| **MOTOR RPM** | - | DD/ 83% |
| **RA CFM** | 2200 | 2372 |
| **OA CFM** | 200 | 203 |
| **RL Voltage** | - | 210/210/209 |
| **RL Amperage** | - | 5.3/5.1/5.3 |
| **SF System SetPt** | - | 83% |
| **RA Damper Position** | - | 74% |
| **OA Damper Position** | - | 26% |
| **OA Damper Type** | - | ECON |

| Performance Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MA Plenum SP** | - | -0.40" |
| **Fan Suction SP** | - | -0.67" |
| **Fan Discharge SP** | - | 0.61" |
| **Total ESP** | - | 1.01" |
| **Fan Total SP** | - | 1.28" |

Completed By: Jearod Ferrette on 09/10/2025

## Unit Data - PHOTO LOG

**09/09/2025**

# National TAB

**Project:09-08-25 WAWA #6110 WILSON, NC**

## AHU/RTU

**Diffuser Supply (GRD)**

**RTU3/FOH**

| Asset | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Asset Name** | **Location** | **Type** | **Size** | **DESIGN CFM** | **AK** | **CFM(1)** | **CFM(2)** | **FINAL CFM** | **% to design** |
| SGRD1 | ENTRY | SD-5 | 8" | 250 | 1 | 212 | - | 263 | 105.2 |
| SGRD2 | FOH | SD-2 | 3X19 | 450 | 0.39 | 420 | - | 490 | 108.9 |
| SGRD3 | FOH | SD-2 | 3X19 | 450 | 0.39 | 430 | - | 490 | 108.9 |
| SGRD4 | FOH | SD-2 | 3X19 | 450 | 0.39 | 451 | - | 491 | 109.1 |
| SGRD5 | FOH | SD-2 | 3X19 | 450 | 0.39 | 437 | - | 487 | 108.2 |
| SGRD6 | ASSOCIATES AREA | SD-1 | 8" | 200 | 1 | 331 | - | 205 | 102.5 |
| SGRD7 | OFFICE | SD-1 | 8" | 150 | 1 | 333 | - | 149 | 99.3 |
| Total | | | | 2400 | | 2614 | 0 | 2575 | 107.29% |

# National TAB

**Project: 09-08-25 WAWA #6110 WILSON, NC**

## System/Unit: FAN - Exhaust

**Asset: EF1** AREA:RESTROOMS

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | GREENHECK | GREENHECK |
| **Model Num** | GB-098-6 | GB-098-6 |
| **Serial Num** | - | 27071967 |
| **Type** | DOWNBLAST | DOWNBLAST |
| **Configuration** | VERTICAL | VERTICAL |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | MARATHON |
| **Frame** | - | 48Y |
| **Horsepower** | 0.167 | 0.167 |
| **Motor Rpm** | - | 1725 |
| **Phase** | 1 | 1 |
| **Voltage (rated)** | 120 | 115 |
| **Amperage (rated)** | - | 3.6 |
| **Service Factor** | - | 1.15 |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 375 | 333 |
| **Fan RPM** | - | 1425 |
| **Fan Rotation** | - | CW |
| **Motor RPM** | - | 1709 |
| **System SetPt** | - | MAX TURNS IN |
| **RL Voltage** | - | 120 |
| **Total ESP** | 0.38" | 0.33" |
| **Fan Inlet SP** | - | 0.33" |
| **Fan Discharge SP** | - | ATMO |

Completed By: Jearod Ferrette on 09/09/2025

Notes:
Motor bore .5
Motor sheave -VP25
Fan bore .75
Fan sheave -3.5
CL- 5"
Belt- 3L-180

Written By: Jearod Ferrette on 09/09/2025

## Unit Data - PHOTO LOG

**09/09/2025**

# National TAB

**Project:09-08-25 WAWA #6110 WILSON, NC**

## FAN - Exhaust

**Diffuser Ret/Exh (GRD)**

**EF1/RESTROOMS**

| Asset | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Asset Name** | **Location** | **Type** | **Size** | **DESIGN CFM** | **AK** | **CFM(1)** | **CFM(2)** | **FINAL CFM** | **% to design** |
| EGRD1 | WOMENS RR | EG-1 | 8X8 | 150 | 1 | 115 | 154 | 138 | 92.0 |
| EGRD2 | MENS RR | EG-1 | 8X8 | 225 | 1 | 143 | 184 | 195 | 86.7 |
| Total | | | | 375 | | 258 | 338 | 333 | 88.8% |

# National TAB

**Project: 09-08-25 WAWA #6110 WILSON, NC**

## System/Unit: FAN - Exhaust

**Asset: EF2** AREA:BOH

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | GREENHECK | GREENHECK |
| **Model Num** | GB-098-6 | GB-098-6 |
| **Serial Num** | - | 27071968 |
| **Type** | DOWNBLAST | DOWNBLAST |
| **Configuration** | VERTICAL | VERTICAL |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | MARATHON |
| **Frame** | - | 48Y |
| **Horsepower** | 0.167 | 0.167 |
| **Motor Rpm** | - | 1725 |
| **Phase** | 1 | 1 |
| **Voltage (rated)** | 120 | 115 |
| **Amperage (rated)** | - | 3.6 |
| **Service Factor** | - | 1.15 |

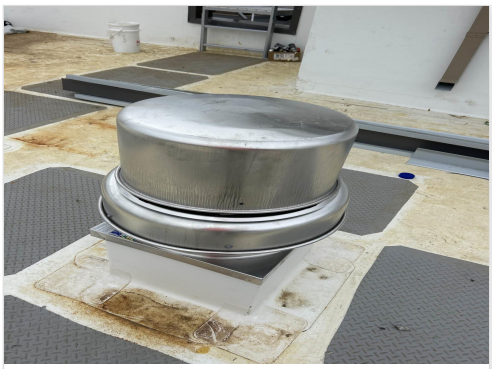
| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 400 | 417 |
| **Fan RPM** | - | 1117 |
| **Fan Rotation** | - | CW |
| **Motor RPM** | - | 1762 |
| **System SetPt** | - | 3 TURNS OUT |
| **RL Voltage** | - | 119 |
| **Total ESP** | 0.38" | 0.18" |
| **Fan Inlet SP** | - | 0.18" |
| **Fan Discharge SP** | - | ATMO |

Completed By: Jearod Ferrette on 09/09/2025

Notes:
Motor bore .5
Motor sheave -VP25
Fan bore .75
Fan sheave -3.5
CL- 5"
Belt- 3L-180

Written By: Jearod Ferrette on 09/09/2025

## Unit Data - PHOTO LOG



**09/09/2025**

# National TAB

**Project:09-08-25 WAWA #6110 WILSON, NC**

## 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 | BOH | RG-2 | 8X8 | 200 | 1 | 178 | 199 | 199 | 99.5 |
| EGRD2 | BOH | RG-2 | 8X8 | 200 | 1 | 236 | 218 | 218 | 109.0 |
| Total | | | | 400 | | 414 | 417 | 417 | 104.25% |

# National TAB

**Project: 09-08-25 WAWA #6110 WILSON, NC**

## System/Unit: FAN - Exhaust

**Asset: EF3** AREA:TRASH

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | GREENHECK | GREENHECK |
| **Model Num** | SP-B200 | SP-B200 |
| **Serial Num** | - | 197302958-0052 |
| **Type** | CEILING | CEILING |
| **Configuration** | VERTICAL | VERTICAL |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | GREENHECK |
| **Frame** | - | NA |
| **Horsepower** | 0.167 | 1/30 |
| **Motor Rpm** | - | 1000 |
| **Phase** | 1 | 1 |
| **Voltage (rated)** | 120 | 115 |
| **Amperage (rated)** | - | 2.7 |
| **Service Factor** | - | 1 |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 200 | 215 |
| **Fan RPM** | - | DD |
| **System SetPt** | - | HIGH |
| **RL Voltage** | - | 119 |
| **Total ESP** | 0.50" | 0.42" |
| **Fan Inlet SP** | - | 0.42" |
| **Fan Discharge SP** | - | ATMO |

Completed By: Jearod Ferrette on 09/09/2025

### Unit Data - PHOTO LOG

**09/09/2025**