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**Report: TAB REPORT**  
**Function: Test, Adjust, & Balance**  
**Date: 07/31/2024**

# PROJECT

**07-08-24 WAWA #05803 ROBERTSDALE, AL**

21022 HWY 59 BALDWIN

ROBERTSDALE, AL 36567

Client

Wawa  
260 West Baltimore Pike  
Wawa, PA 19063

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## System/Unit: AHU/RTU

Asset: RTU1

AREA:RETAIL

| Unit Data           |                   |              |
|---------------------|-------------------|--------------|
|                     | Design            | Actual       |
| MFG                 | LENNOX<br>ENLIGHT | LENNOX       |
| Serial Num          | -                 | 5623L01920   |
| Model Num           | LCT102H4E         | LCT102H4EG1Y |
| Type                | RTU               | RTU          |
| Configuration       | VERTICAL          | VERTICAL     |
| Num OA Filters 1    | -                 | 2            |
| OA Filter Size 1    | -                 | 23x14.25     |
| Num Final Filter 1  | -                 | 4            |
| Final Filter Size 1 | -                 | 20x25x2      |

| Test Data          |        |             |
|--------------------|--------|-------------|
|                    | Design | Actual      |
| SF CFM             | 3400   | 3338        |
| RA CFM             | 2790   | 2710        |
| OA CFM             | 610    | 628         |
| RL Voltage         | -      | 212/213/213 |
| RL Amperage        | -      | 3.0/2.4/2.5 |
| SF System SetPt    | -      | 62%         |
| RA Damper Position | -      | 69%         |
| RA Damper Type     | -      | ECONOMIZER  |
| OA Damper Position | -      | 31%         |
| OA Damper Type     | -      | ECONOMIZER  |

| Motor Data     |        |          |
|----------------|--------|----------|
|                | Design | Actual   |
| Motor MFG      | -      | EBMPAPST |
| Frame          | -      | N/A      |
| Horsepower     | 3.75   | 3.8      |
| Motor Rpm      | -      | 2200     |
| Phase          | 3      | 3        |
| Rated Voltage  | 208    | 200-240  |
| Rated Amperage | -      | 8.7      |
| Service Factor | -      | N/A      |

| Performance Data |        |        |
|------------------|--------|--------|
|                  | Design | Actual |
| MA Plenum SP     | -      | -0.36" |
| Fan Suction SP   | -      | -0.69" |
| Fan Discharge SP | -      | 0.45"  |
| Total ESP        | 0.5"   | 0.81"  |
| Fan Total SP     | -      | 1.14"  |

| 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

### 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"  | 300        | 1  | 429    | 345    | 281       | 93.7        |
| SGRD2      | RETAIL             | LD1  | 10"  | 300        | 1  | 428    | 329    | 300       | 100.0       |
| SGRD3      | RETAIL             | LD1  | 10"  | 300        | 1  | 267    | 227    | 232       | 77.3        |
| SGRD4      | ASSOCIATES         | CD1  | 8"   | 150        | 1  | 178    | 153    | 147       | 98.0        |
| SGRD5      | OFFICE             | CD1  | 8"   | 150        | 1  | 201    | 174    | 156       | 104.0       |
| SGRD6      | RETAIL             | LD1  | 10"  | 325        | 1  | 512    | 421    | 350       | 107.7       |
| SGRD7      | RETAIL             | LD1  | 10"  | 325        | 1  | 463    | 399    | 323       | 99.4        |
| SGRD8      | RETAIL             | LD1  | 10"  | 300        | 1  | 289    | 260    | 271       | 90.3        |
| SGRD9      | RETAIL             | LD1  | 10"  | 290        | 1  | 344    | 278    | 313       | 107.9       |
| SGRD10     | DELIVERY VESTIBULE | CD1  | 8"   | 200        | 1  | 261    | 219    | 192       | 96.0        |
| SGRD11     | RETAIL             | LD1  | 10"  | 280        | 1  | 430    | 343    | 295       | 105.4       |
| SGRD12     | RETAIL             | LD1  | 10"  | 280        | 1  | 122    | 108    | 285       | 101.8       |
| SGRD13     | REAR VESTIBULE     | CD3  | 6"   | 100        | 1  | 94     | 87     | 93        | 93.0        |
| SGRD14     | MENS RR            | CD3  | 6"   | 50         | 1  | 109    | 99     | 54        | 108.0       |
| SGRD15     | WOMENS RR          | CD3  | 6"   | 50         | 1  | 120    | 92     | 46        | 92.0        |
| Total      |                    |      |      | 3400       |    | 4247   | 3534   | 3338      | 98.18%      |



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## System/Unit: AHU/RTU

Asset: RTU2

AREA:FOOD SERVICE

| Unit Data           |                |              |
|---------------------|----------------|--------------|
|                     | Design         | Actual       |
| MFG                 | LENNOX ENLIGHT | LENNOX       |
| Serial Num          | -              | 5624B06330   |
| Model Num           | LCT120H4E      | LCT120H4EN1Y |
| Type                | RTU            | RTU          |
| Configuration       | VERTICAL       | VERTICAL     |
| Num OA Filters 1    | -              | 2            |
| OA Filter Size 1    | -              | 23x14.25     |
| Num Final Filter 1  | -              | 4            |
| Final Filter Size 1 | -              | 20x25x2      |

| Test Data          |        |             |
|--------------------|--------|-------------|
|                    | Design | Actual      |
| SF CFM             | 4000   | 4147        |
| RA CFM             | 3350   | 3478        |
| OA CFM             | 650    | 669         |
| RL Voltage         | -      | 211/212/212 |
| RL Amperage        | -      | 5.5/5.5/5.6 |
| SF System SetPt    | -      | 82%         |
| RA Damper Position | -      | 75%         |
| RA Damper Type     | -      | ECONOMIZER  |
| OA Damper Position | -      | 25%         |
| OA Damper Type     | -      | ECONOMIZER  |

| Motor Data     |        |          |
|----------------|--------|----------|
|                | Design | Actual   |
| Motor MFG      | -      | EBMPAPST |
| Frame          | -      | N/A      |
| Horsepower     | 3.75   | 3.8      |
| Motor Rpm      | -      | 2200     |
| Phase          | 3      | 3        |
| Rated Voltage  | 208    | 200-240  |
| Rated Amperage | -      | 8.7      |
| Service Factor | -      | N/A      |

| Performance Data |        |        |
|------------------|--------|--------|
|                  | Design | Actual |
| MA Plenum SP     | -      | -1.27" |
| Fan Suction SP   | -      | -1.66" |
| Fan Discharge SP | -      | 0.55"  |
| Total ESP        | 0.5"   | 1.82"  |
| Fan Total SP     | -      | 2.21"  |

| 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

### 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  | 10"  | 400        | 1  | 319    | 389    | 418       | 104.5       |
| SGRD2      | FOOD SERVICE    | LD1  | 10"  | 400        | 1  | 335    | 364    | 389       | 97.3        |
| SGRD3      | FOOD SERVICE    | LD1  | 10"  | 400        | 1  | 405    | 391    | 408       | 102.0       |
| SGRD4      | FOOD SERVICE    | LD1  | 12"  | 500        | 1  | 635    | 522    | 539       | 107.8       |
| SGRD5      | FOOD SERVICE    | LD1  | 12"  | 500        | 1  | 368    | 508    | 533       | 106.6       |
| SGRD6      | FOOD SERVICE    | LD1  | 12"  | 500        | 1  | 363    | 420    | 495       | 99.0        |
| SGRD7      | WASHROOM        | LD1  | 10"  | 400        | 1  | 425    | 445    | 411       | 102.8       |
| SGRD8      | BACKROOM        | CD1  | 10"  | 300        | 1  | 493    | 310    | 328       | 109.3       |
| SGRD9      | STAGING         | CD1  | 6"   | 50         | 1  | 95     | 52     | 52        | 104.0       |
| SGRD10     | ELECTRICAL ROOM | CD1  | 12"  | 550        | 1  | 524    | 565    | 574       | 104.4       |
| Total      |                 |      |      | 4000       |    | 3962   | 3966   | 4147      | 103.68%     |



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## System/Unit: AHU/RTU

Asset: RTU3

AREA:RETAIL

| Unit Data           |                |              |
|---------------------|----------------|--------------|
|                     | Design         | Actual       |
| MFG                 | LENNOX ENLIGHT | LENNOX       |
| Serial Num          | -              | 5623L02244   |
| Model Num           | LCT092H4E      | LCT092H4EG1Y |
| Type                | RTU            | RTU          |
| Configuration       | VERTICAL       | VERTICAL     |
| Num OA Filters 1    | -              | 2            |
| OA Filter Size 1    | -              | 23x14.25     |
| Num Final Filter 1  | -              | 4            |
| Final Filter Size 1 | -              | 20x25x2      |

| Test Data          |        |             |
|--------------------|--------|-------------|
|                    | Design | Actual      |
| SF CFM             | 3000   | 3131        |
| RA CFM             | 2610   | 2730        |
| OA CFM             | 390    | 401         |
| RL Voltage         | -      | 211/212/212 |
| RL Amperage        | -      | 2.9/3.0/3.0 |
| SF System SetPt    | -      | 65%         |
| RA Damper Position | -      | 77%         |
| RA Damper Type     | -      | ECONOMIZER  |
| OA Damper Position | -      | 23%         |
| OA Damper Type     | -      | ECONOMIZER  |

| Motor Data     |        |          |
|----------------|--------|----------|
|                | Design | Actual   |
| Motor MFG      | -      | EBMPAPST |
| Frame          | -      | N/A      |
| Horsepower     | 3.75   | 3.8      |
| Motor Rpm      | -      | 2200     |
| Phase          | 3      | 3        |
| Rated Voltage  | 208    | 200-240  |
| Rated Amperage | -      | 8.7      |
| Service Factor | -      | N/A      |

| Performance Data |        |        |
|------------------|--------|--------|
|                  | Design | Actual |
| MA Plenum SP     | -      | -0.75" |
| Fan Suction SP   | -      | -1.02" |
| Fan Discharge SP | -      | 0.46"  |
| Total ESP        | 0.5"   | 1.21"  |
| Fan Total SP     | -      | 1.48"  |

| 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

### 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"  | 590        | 1  | 761    | 597    | 607       | 102.9       |
| SGRD2      | RETAIL               | LD1  | 10"  | 310        | 1  | 109    | 402    | 331       | 106.8       |
| SGRD3      | RETAIL               | LD1  | 10"  | 300        | 1  | 446    | 253    | 320       | 106.7       |
| SGRD4      | RETAIL               | LD1  | 10"  | 300        | 1  | 640    | 285    | 309       | 103.0       |
| SGRD5      | COFFEE/SPECIALTY BEV | LD1  | 10"  | 300        | 1  | 110    | 434    | 327       | 109.0       |
| SGRD6      | COFFEE/SPECIALTY BEV | LD1  | 10"  | 300        | 1  | 82     | 381    | 319       | 106.3       |
| SGRD7      | COFFEE/SPECIALTY BEV | LD1  | 10"  | 300        | 1  | 484    | 309    | 306       | 102.0       |
| SGRD8      | RETAIL               | LD1  | 10"  | 300        | 1  | 425    | 265    | 307       | 102.3       |
| SGRD9      | RETAIL               | LD1  | 10"  | 300        | 1  | 121    | 282    | 305       | 101.7       |
| Total      |                      |      |      | 3000       |    | 3178   | 3208   | 3131      | 104.37%     |



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## System/Unit: FAN - Exhaust

Asset: EF1

AREA:

| Unit Data     |           |                  |
|---------------|-----------|------------------|
|               | Design    | Actual           |
| MFG           | GREENHECK | GREENHECK        |
| Model Num     | G-140     | G-140-B-4-1-22-X |
| Serial Num    | -         | 24139800         |
| Type          | DOWNBLAST | DOWNBLAST        |
| Configuration | VERTICAL  | VERTICAL         |

| Motor Data       |        |        |
|------------------|--------|--------|
|                  | Design | Actual |
| Motor MFG        | -      | N/A    |
| Frame            | -      | 48Y    |
| Horsepower       | 1/4    | 1/4    |
| Motor Rpm        | -      | 1140   |
| Phase            | 1      | 1      |
| Voltage (rated)  | 120    | 115    |
| Amperage (rated) | -      | 3.2    |
| Service Factor   | -      | 1.00   |

| Test Data        |        |                  |
|------------------|--------|------------------|
|                  | Design | Actual           |
| CFM              | 1150   | 1089             |
| Fan Rotation     | -      | CW               |
| System SetPt     | -      | SPEED CONTROLLER |
| RL Voltage       | -      | 96               |
| RL Amperage      | -      | 4.3              |
| Total ESP        | 0.25"  | 0.42"            |
| Fan Inlet SP     | -      | -0.42"           |
| Fan Discharge SP | -      | ATM              |

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## 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        |    | 748    | 493    | 508       | 101.6       |
| EGRD2      | WASHROOM     | G1   | 10"  | 300        |    | 455    | 432    | 292       | 97.3        |
| EGRD3      | STAGING      | G1   | 6"   | 100        |    | 31     | 109    | 107       | 107.0       |
| EGRD4      | WOMENS RR    | G3   | 6"   | 100        |    | 62     | 64     | 50        | 50.0        |
| EGRD5      | MENS RR      | G3   | 6"   | 50         |    | 85     | 82     | 65        | 130.0       |
| EGRD6      | MENS RR      | G3   | 6"   | 100        |    | 89     | 93     | 72        | 72.0        |
| Total      |              |      |      | 1150       |    | 1470   | 1273   | 1094      | 95.13%      |



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## System/Unit: FAN - Exhaust

Asset: EF2

AREA:

| Unit Data     |           |           |
|---------------|-----------|-----------|
|               | Design    | Actual    |
| MFG           | GREENHECK | GREENHECK |
| Model Num     | CSP-B110  | CSP-A110  |
| Serial Num    | -         | 24134467  |
| Type          | INLINE    | INLINE    |
| Configuration | VERTICAL  | VERTICAL  |

| Test Data    |        |        |
|--------------|--------|--------|
|              | Design | Actual |
| CFM          | 60     | 102    |
| Fan Rotation | -      | CCW    |
| System SetPt | -      | MIN    |
| RL Voltage   | -      | 123    |
| RL Amperage  | -      | 0.1    |

| Motor Data       |        |           |
|------------------|--------|-----------|
|                  | Design | Actual    |
| Motor MFG        | -      | GREENHECK |
| Frame            | -      | N/A       |
| Horsepower       | 21W    | N/A       |
| Motor Rpm        | -      | 950       |
| Phase            | 1      | 1         |
| Voltage (rated)  | 120    | 115       |
| Amperage (rated) | -      | 0.19      |
| Service Factor   | -      | N/A       |

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