**Report By:**

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

**Report: TAB REPORT**

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

**Date: 11/21/2024**

**Completed By: National TAB**

# PROJECT

## 11-18-24 FREDDY'S - ALEXANDRIA, LA

1802 Macarthur Drive

ALEXANDRIA, LA 71301

Client

Elite Mechanical Services of North Texas, LLC

231 Jacinth Ln

Granbury, TX 76049

# National TAB

**Project: 11-18-24 FREDDY'S - ALEXANDRIA, LA**

## 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.

Kitchen Exhaust Hood & Associated Fans

Each kitchen exhaust fan was measured at the hood filter bay utilizing a velocity matrix and a manufacturer's correction factor. Each filter velocity is multiplied by the manufacturer's corrected area. The sum of these readings equals the total flow of the exhaust fans. The total flow of the exhaust was then adjusted to within tolerance of the design flow. . Any EF's that fell outside of this 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.

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 of -0.02" wc to +0.02" wc and that the pressure measurement coincides with the actual and design net airflow. Any deviations from these standards are noted throughout the report.

The hood capture was tested at the perimeter of the hood and the cook top level with the equipment heat on to ensure satisfactory hood capture and containment.

## Issue List

- EF-2 Grease Cup
- Office Transfer Grille
- RTU-1 Grilles
- RTU-1 Outside Air Filters
- Transfer Grille Entry Vestibule

## 11-18-24 FREDDY'S - ALEXANDRIA, LA

### Project Issue Information

**Issue Name :** EF-2 Grease Cup

**Description :** EF-2 grease cup is sitting on roof not attached to fan. Recommend attaching grease cup.

**Created By :** National TAB

**Assigned To :** National TAB - Wesley John

**Status :** Open

**Priority :**

**Asset Tag :**

**Originated Date :** 11/21/2024 - Wesley John - National TAB

Project Issue File Details

**11/21/2024**

## 11-18-24 FREDDY'S - ALEXANDRIA, LA

### Project Issue Information

**Issue Name :** Office Transfer Grille

**Description :** The transfer grille between the office and kitchen space is missing. Recommend installing per plans to allow design amount of supply air into office.

**Created By :** National TAB

**Assigned To :** National TAB - Wesley John

**Status :** Open

**Priority :**

**Asset Tag :**

**Originated Date :** 11/21/2024 - Wesley John - National TAB

Project Issue File Details

**11/21/2024**

**11/21/2024**

**11-18-24 FREDDY'S - ALEXANDRIA, LA**

## Project Issue Information

| | | | |
|---|---|---|---|
| **Issue Name :** | RTU-1 Grilles | | |
| **Description :** | RTU-1 grilles do not have dampers installed. Unit set for total volume. No drafting observed. | | |
| **Created By :** | National TAB | **Assigned To :** | National TAB - Wesley John |
| **Status :** | Open | | |
| **Priority :** | | **Asset Tag :** | |
| **Originated Date :** | 11/21/2024 - Wesley John - National TAB | | |

## 11-18-24 FREDDY'S - ALEXANDRIA, LA

### Project Issue Information

**Issue Name :** RTU-1 Outside Air Filters

**Description :** RTU-1 outside air filters are not installed. Could not locate. Recommend installing.

**Created By :** National TAB

**Assigned To :** National TAB - Wesley John

**Status :** Open

**Priority :**

**Asset Tag :**

**Originated Date :** 11/21/2024 - Wesley John - National TAB

Project Issue File Details

**11/21/2024**

## 11-18-24 FREDDY'S - ALEXANDRIA, LA

**Project Issue Information**

| | | | |
|---|---|---|---|
| **Issue Name :** | Transfer Grille Entry Vestibule | | |
| **Description :** | The transfer grille between the entry vestibule and dining space is not installed. Supply air to vestibule decreases dramatically when doors to vestibule are shut. Recommend installing per plans. | | |
| **Created By :** | National TAB | **Assigned To :** | National TAB - Wesley John |
| **Status :** | Open | | |
| **Priority :** | | **Asset Tag :** | |
| **Originated Date :** | 11/21/2024 - Wesley John - National TAB | | |

NATIONAL TAB

## 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 | DINING | 5000 | 5133 | 4019 | 4148 | 981 | 985 | 19.6% | 19.2% | | | | | | |
| DOAS-1 | KITCHEN | 2650 | 2613 | 0 | 0 | 2650 | 2613 | 100.0% | 100.0% | | | | | | |
| KEF-1 | HOOD-1 | | | | | | | | | | | 1600 | 1612 | | |
| KEF-2 | HOOD-2 | | | | | | | | | | | 775 | 773 | | |
| EF-1 | MENS RESTROOM | | | | | | | | | | | | | 75 | 71 |
| EF-2 | WOMENS RESTROOM | | | | | | | | | | | | | 75 | 78 |
| **TOTALS** | | 7650 | 7746 | 4019 | 4148 | 3631 | 3598 | | | 0 | 0 | 2375 | 2385 | 150 | 149 |

**NET BUILDING AIRFLOW CALCULATION**

| TOTALS | DESIGN | ACTUAL |
|---|---|---|
| TOTAL OA | 3631 | 3598 |
| TOTAL EXHAUST | 2525 | 2534 |
| **NET AIRFLOW** | 1106 | 1064 |

| DOOR TESTED | BUILDING PRESSURE MEASUREMENTS (IN. H20) |
|---|---|
| FRONT | 0.005 |
| SIDE | - |
| REAR | 0.004 |
| **AVERAGE** | **0.003** |

**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

- TECH - STEP 1: INITIAL SITE WALKTHROUGH
- TECH - STEP 2: UNIT DATA AND EVAL
- TECH - STEP 3: TEST, ADJUST AND BALANCE
- TECH - STEP 4: FINAL TESTS

## 11-18-24 FREDDY'S - ALEXANDRIA, LA

### CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | TECH - STEP 1: INITIAL SITE WALKTHROUGH | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 10/21/2024 - Brian Turnbough - National TAB | | |
| **Completed Date :** | | | |

### CheckList Item Details

**INITIAL SITE WALKTHROUGH**

| | |
|---|---|
| **All diffusers and grilles are installed and match design?** | Yes |
| **Comment:** | |
| **All hood filters installed and accounted for?** | Yes |
| **Comment:** | |
| **Hoods are wired and have power?** | Yes |
| **Comment:** | |
| **Hood is free of alarms?** | Yes |
| **Comment:** | |
| **Thermostats have power?** | Yes |
| **Comment:** | |

**Have trades/general contractor been notified about any issues and are they created on FaciliBuild?**

**Comment:**

YES

# 11-18-24 FREDDY'S - ALEXANDRIA, LA

## CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | TECH - STEP 2: UNIT DATA AND EVAL | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 10/21/2024 - Brian Turnbough - National TAB | | |
| **Completed Date :** | 11/21/2024 - Wesley John - National TAB | | |

## CheckList Item Details

**UNIT DATA AND EVALUATION WHILE GATHERING UNIT DATA CHECK THE FOLLOWING:**

**RTU's/AHU's**

| | |
|---|---|
| **Economizers are assembled and functional?** | Yes |
| **Comment:** | |
| **DCV Max damper opening position is set to minimum?** | Yes |
| **Comment:** | |
| **Free cooling enthalpy set point set for lowest setting (Typically "D")** | Yes |
| **Comment:** | |
| **Motors are all operating below the FLA rating?** | Yes |
| **Comment:** | |

**Are belts tight?**

**Comment:**

N/A

**If direct drive unit is the speed controller working.**

**Comment:**

YES

| | |
|---|---|
| **Is gas piping installed and valves turned on?** | Yes |

**Comment:**

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

**Comment:**

**EF's**

| | |
|---|---|
| **Rotation is correct?** | Yes |

**Comment:**

**Belts are tight?**

**Comment:**

N/A

| | |
|---|---|
| **Grease cup installed on hood fan?** | No |

**Comment:**

SEE ISSUES

| | |
|---|---|
| **Hinge kit installed installed on hood fan?** | Yes |

**Comment:**

| | |
|---|---|
| **Lean fan back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?** | Yes |

**Comment:**

| | |
|---|---|
| **Flex conduit is long enough so that fan can be completely tilted back?** | Yes |

**Comment:**

| | |
|---|---|
| **There is no major leakage around base of fan?** | Yes |

**Comment:**

| | |
|---|---|
| **Is the motor operating below the motor FLA rating?** | Yes |

| | |
|---|---|
| **Comment:** | |
| **For restroom fan(s) is the back draft damper installed and can it fully open?** | Yes |
| **Comment:** | |
| **Unit free of noticeable noise and vibration?** | Yes |
| **Comment:** | |
| **HOODS** | |
| **Kitchen equipment installed in proper places?** | Yes |
| **Comment:** | |
| **Can kitchen equipment be turned on for final smoke test?** | Yes |
| **Comment:** | |
| **DOCUMENTATION** | |
| **Have trades/general contractor been notified about any issues and are they created on FaciliBuild?** | Yes |
| **Comment:** | |

# 11-18-24 FREDDY'S - ALEXANDRIA, LA

## CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | TECH - STEP 3: TEST, ADJUST AND BALANCE | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 10/21/2024 - Brian Turnbough - National TAB | | |
| **Completed Date :** | | | |

## CheckList Item Details

**TEST, ADJUST, AND BALANCE ALL EQUIPMENT:**

**DURING TESTING MAKE NOTE OF THE FOLLOWING:**

| | |
|---|---|
| **Is space free of drafting?** | Yes |
| **Comment:** | |
| **Is space comfortable in all areas?** | Yes |
| **Comment:** | |
| **Is the space free of ventilation noise?** | Yes |
| **Comment:** | |

**If deviations from design were necessary to resolve 1-3 what were they? Otherwise put "NA".**

**Comment:**

NA

# 11-18-24 FREDDY'S - ALEXANDRIA, LA

## CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | TECH - STEP 4: FINAL TESTS | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 10/21/2024 - Brian Turnbough - National TAB | | |
| **Completed Date :** | 11/21/2024 - Wesley John - National TAB | | |

## CheckList Item Details

**FINAL TESTS**

**HOOD CAPTURE TEST**

**List equipment turned on for testing**

**Comment:**

GRIDDLE, FRYER

**List smoke candle type used**

**Comment:**

45 SECOND SMOKE CARTRIDGE

**Smoke test capture - Perimeter of hood**

**Comment:**

100%

**Smoke test capture - Top of cooking surface**

**Comment:**

100%

**WITNESS**

| | |
|---|---|
| **Date test was completed** | 11/21/2024 |

**Comment:**

**TAB tech name / Firm**

**Comment:**

WESLEY JOHN / NATIONAL TAB

**Site super name / Firm**

**Comment:**

NO SITE SUPER. OPEN STORE.

**Owner representative name / Firm (if Applicable)**

**Comment:**

N/A

**Building pressure at front & back doors (All Systems On)**

**Comment:**

FRONT 0.005" BACK 0.004"

**ADDITIONAL**

**Do actual net building airflow, design net building airflow, and pressure coincide? If not why? (All three should either be positive or negative)**

**Comment:**

YES

**Thermostats are programmed?** Yes

**Comment:**

# National TAB

**Project: 11-18-24 FREDDY'S - ALEXANDRIA, LA**

## System/Unit: AHU/RTU

**Asset: DOAS1** AREA:KITCHEN

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | CAPTIVE-AIRE | CAPTIVE-AIRE |
| **Serial Num** | - | 5976146 |
| **Model Num** | CASRTU3-I.200-15-20T | CAS-HVAC3-I.200-15-20T |
| **Type** | - | 5976146 |
| **Configuration** | VERTICAL DISCHARGE | VERTICAL DISCHARGE |
| **Num OA Filters 1** | - | 4 |
| **OA Filter Size 1** | - | 16x25x2 |
| **Num Final Filter 1** | - | 8 |
| **Final Filter Size 1** | - | 20x25x2 |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | TECO |
| **Frame** | - | 145T |
| **Horsepower** | - | 2 |
| **Motor Rpm** | - | 1745 |
| **Phase** | - | 3 |
| **Rated Voltage** | - | 230 |
| **Rated Amperage** | - | 5.64 |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **SF CFM** | 2650 | 2613 |
| **SF RPM** | - | 1788 |
| **RA CFM** | 0 | 0 |
| **OA CFM** | 2650 | 2613 |
| **RL Voltage** | - | 209 VFD |
| **RL Amperage** | - | 5.6 VFD |
| **SF Rotation** | - | CCW |
| **SF System SetPt** | - | 61.5 Hz |
| **RA Damper Position** | - | N/A |
| **Min OA Damper Position** | - | OPEN |
| **Min OA Damper Type** | - | OPPOSED BLADE |

| General | |
|---|---|
| | **Actual** |
| **Fan Rotation Correct** | YES |
| **Unit Filters Clean** | YES |
| **Condensate Drain Installed** | YES |

Completed By: Wesley John on 11/21/2024

Notes:
UNIT SCHEDULED FOR 2650 CFM SUPPLY. GRILLES ADD TO 2790. GRILLES PROPORTIONALLY ADJUSTED TO MEET SCHEDULED DESIGN OF 2650 CFM.
UNABLE TO SAFELY DRILL INTO UNIT TO TAKE STATIC PRESSURE READINGS.

Written By: Wesley John on 11/21/2024

## Unit Data - PHOTO LOG

**11/21/2024**

# National TAB

**Project:11-18-24 FREDDY'S - ALEXANDRIA, LA**

## AHU/RTU

### Diffuser Supply (GRD)

**DOAS1/KITCHEN**

| Asset | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Asset Name** | **Location** | **Type** | **Size** | **DESIGN CFM** | **AK** | **CFM(1)** | **CFM(2)** | **FINAL CFM** | **% to design** |
| DOAS1-SGRD1 | MECHANICAL | SD-2 | 10" | 312 | 1.0 | 191 | 223 | 294 | 94.2 |
| DOAS1-SGRD2 | PREP | SD-2 | 10" | 313 | 1.0 | 339 | 472 | 298 | 95.2 |
| DOAS1-SGRD3 | SERVING | SD-2 | 10" | 312 | 1.0 | 245 | 348 | 309 | 99.0 |
| DOAS1-SGRD4 | CUSTARD PREP | SD-2 | 10" | 313 | 1.0 | 328 | 419 | 307 | 98.1 |
| DOAS1-SGRD5 | COOKLINE | SD-3 | 10" | 312 | 1.0 | 248 | 345 | 320 | 102.6 |
| DOAS1-SGRD6 | SINK | SD-2 | 10" | 313 | 1.0 | 187 | 48 | 304 | 97.1 |
| DOAS1-SGRD7 | COOKLINE | SD-3 | 10" | 312 | 1.0 | 293 | 414 | 327 | 104.8 |
| DOAS1-SGRD8 | OFFICE | SD-4 | 8" | 150 | 1.0 | 81 | 109 | 144 | 96.0 |
| DOAS1-SGRD9 | DRIVE THRU | SD-2 | 10" | 313 | 1.0 | 174 | 257 | 310 | 99.0 |
| Total | | | | 2650 | | 2086 | 2635 | 2613 | 98.6% |

**Completed By: Wesley John on 11/21/2024**

# National TAB

**Project: 11-18-24 FREDDY'S - ALEXANDRIA, LA**

## System/Unit: AHU/RTU

**Asset: RTU1** AREA:DINING

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | TRANE | TRANE |
| **Serial Num** | - | 243012513L |
| **Model Num** | YSJ150 | YSJ150B3S0H07K2C0A201A0A20 |
| **Type** | RTU | RTU |
| **Configuration** | VERTICAL DISCHARGE | VERTICAL DISCHARGE |
| **Num OA Filters 1** | - | MISSING |
| **OA Filter Size 1** | - | MISSING |
| **Num Final Filter 1** | - | 3 |
| **Final Filter Size 1** | - | 18x18x2 |
| **Num Final Filter 2** | - | 3 |
| **Final Filter Size 2** | - | 18x24x2 |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | NL |
| **Frame** | - | NL |
| **Horsepower** | - | 5.0 |
| **Motor Rpm** | - | NL |
| **Phase** | - | 3 |
| **Rated Voltage** | - | 208 |
| **Rated Amperage** | - | 11.0 |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **SF CFM** | 5000 | 5133 |
| **SF RPM** | - | DIRECT DRIVE |
| **RA CFM** | 4019 | 4148 |
| **OA CFM** | 981 | 985 |
| **RL Voltage** | - | 211/211/211 |
| **RL Amperage** | - | 6.2/6.1/5.8 |
| **SF Rotation** | - | CCW |
| **RA Damper Position** | - | 72% |
| **Min OA Damper Position** | - | 28% |
| **Min OA Damper Type** | - | OPPOSED BLADE |

| Performance Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MA Plenum SP** | - | -0.59" |
| **Fan Suction SP** | - | -0.88" |
| **Fan Discharge SP** | - | 0.53" |
| **Total ESP** | - | 1.12" |
| **Fan Total SP** | - | 1.41" |

| General | |
|---|---|
| | **Actual** |
| **Fan Rotation Correct** | YES |
| **Unit Filters Clean** | MODERATE |
| **Condensate Drain Installed** | YES |

Completed By: Wesley John on 11/21/2024

Notes:
SUPPLY FAN SPEED SET POINT 78%.
NO DAMPERS ON RTU-1 GRILLES. SEE ISSUES.

Written By: Wesley John on 11/21/2024

## Unit Data - PHOTO LOG

**11/21/2024**

# National TAB

**Project:11-18-24 FREDDY'S - ALEXANDRIA, LA**

## AHU/RTU

### Diffuser Supply (GRD)

**RTU1/DINING**

| Asset | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Asset Name** | **Location** | **Type** | **Size** | **DESIGN CFM** | **AK** | **CFM(1)** | **CFM(2)** | **FINAL CFM** | **% to design** |
| RTU1-SGRD1 | DINING | SD-1 | 12" | 470 | 1.0 | 484 | 597 | 597 | 127.0 |
| RTU1-SGRD2 | DINING | SD-1 | 12" | 470 | 1.0 | 515 | 611 | 611 | 130.0 |
| RTU1-SGRD3 | DINING | SD-1 | 12" | 470 | 1.0 | 501 | 595 | 595 | 126.6 |
| RTU1-SGRD4 | DINING | SD-1 | 12" | 470 | 1.0 | 495 | 584 | 584 | 124.3 |
| RTU1-SGRD5 | DINING | SD-1 | 12" | 470 | 1.0 | 362 | 472 | 472 | 100.4 |
| RTU1-SGRD6 | ENTRY VESTIBULE | SD-5 | 8" | 150 | 1.0 | 83 | 101 | 101 | 67.3 |
| RTU1-SGRD7 | DINING | SD-1 | 12" | 470 | 1.0 | 259 | 319 | 319 | 67.9 |
| RTU1-SGRD8 | DINING | SD-1 | 12" | 470 | 1.0 | 241 | 294 | 294 | 62.6 |
| RTU1-SGRD9 | DINING | SD-1 | 12" | 470 | 1.0 | 354 | 442 | 442 | 94.0 |
| RTU1-SGRD10 | DINING | SD-1 | 12" | 470 | 1.0 | 390 | 480 | 480 | 102.1 |
| RTU1-SGRD11 | DINING | SD-1 | 12" | 470 | 1.0 | 371 | 445 | 445 | 94.7 |
| RTU1-SGRD12 | RESTROOM HALLWAY | SD-5 | 6" | 50 | 1.0 | 34 | 41 | 41 | 82.0 |
| RTU1-SGRD13 | WOMENS RESTROOM | SD-5 | 6" | 50 | 1.0 | 19 | 38 | 38 | 76.0 |
| RTU1-SGRD14 | MENS RESTROOM | SD-5 | 6" | 50 | 1.0 | 90 | 114 | 114 | 228.0 |
| Total | | | | 5000 | | 4198 | 5133 | 5133 | 102.66% |

**Completed By: Wesley John on 11/21/2024**

# National TAB

**Project: 11-18-24 FREDDY'S - ALEXANDRIA, LA**

## System/Unit: FAN - Exhaust

**Asset: EF1** AREA:MENS RESTROOM

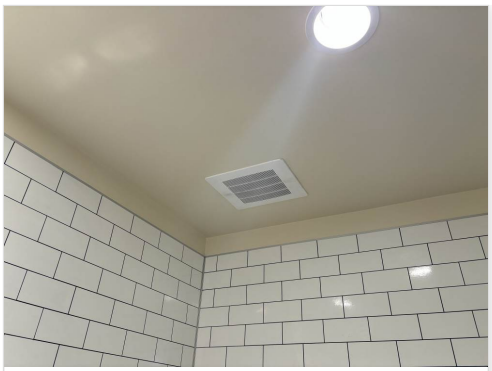
| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | GREENHECK | COOK |
| **Model Num** | SP-A200-390 | GEMINI 120 |
| **Serial Num** | - | NL |
| **Type** | CENTRIFUGAL | CENTRIFUGAL |
| **Configuration** | CEILING | CEILING |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | QUEACE |
| **Frame** | - | NL |
| **Horsepower** | - | 5 W |
| **Motor Rpm** | - | 1550 |
| **Phase** | 1 | 1 |
| **Voltage (rated)** | 120 | 115 |
| **Amperage (rated)** | - | 0.20 |
| **Service Factor** | - | NL |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 75 | 71 |
| **Fan RPM** | - | 1550 |
| **Fan Rotation** | - | CCW |
| **Motor RPM** | - | 1550 |
| **System SetPt** | - | HIGH |
| **RL Voltage** | - | 121 |
| **RL Amperage** | - | 0.20 |
| **Total ESP** | - | N/A |
| **Fan Inlet SP** | - | N/A |
| **Fan Discharge SP** | - | N/A |

Completed By: Wesley John on 11/21/2024

### Unit Data - PHOTO LOG



**11/21/2024**

# National TAB

**Project: 11-18-24 FREDDY'S - ALEXANDRIA, LA**

## System/Unit: FAN - Exhaust

**Asset: EF2** AREA:WOMENS RESTROOM

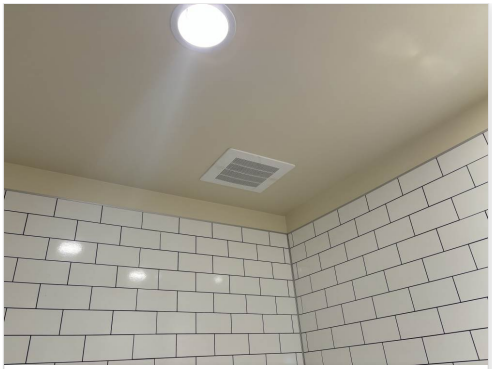
| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | GREENHECK | COOK |
| **Model Num** | SP-A200-390 | GEMINI 120 |
| **Serial Num** | - | NL |
| **Type** | CENTRIFUGAL | CENTRIFUGAL |
| **Configuration** | CEILING | CEILING |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | QUEACE |
| **Frame** | - | NL |
| **Horsepower** | - | 5 W |
| **Motor Rpm** | - | 1550 |
| **Phase** | - | 1 |
| **Voltage (rated)** | - | 115 |
| **Amperage (rated)** | - | 0.20 |
| **Service Factor** | - | NL |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 75 | 78 |
| **Fan RPM** | - | 1550 |
| **Fan Rotation** | - | CCW |
| **Motor RPM** | - | 1550 |
| **System SetPt** | - | HIGH |
| **RL Voltage** | - | 121 |
| **RL Amperage** | - | 0.20 |
| **Total ESP** | - | N/A |
| **Fan Inlet SP** | - | N/A |
| **Fan Discharge SP** | - | N/A |

Completed By: Wesley John on 11/21/2024

### Unit Data - PHOTO LOG



**11/21/2024**

# National TAB

**Project: 11-18-24 FREDDY'S - ALEXANDRIA, LA**

## System/Unit: FAN - Exhaust

**Asset: KEF1** AREA:HOOD-1

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | GREENHECK | CAPTIVEAIRE |
| **Model Num** | SP-A200-390 | CASRE18DD |
| **Serial Num** | - | 5976146 |
| **Type** | CENTRIFUGAL | CENTRIFUGAL |
| **Configuration** | UTILITY | UTILITY |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | TECO |
| **Frame** | - | 145T |
| **Horsepower** | - | 1.0 |
| **Motor Rpm** | - | 1150 |
| **Phase** | - | 3 |
| **Voltage (rated)** | - | 208 |
| **Amperage (rated)** | - | 3.44 |
| **Service Factor** | - | 1.15 |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 1600 | 1612 |
| **Fan RPM** | - | 1010 |
| **Fan Rotation** | - | CCW |
| **Motor RPM** | - | 1010 |
| **System SetPt** | - | 52.7 Hz |
| **RL Voltage** | - | 130 VFD |
| **RL Amperage** | - | 2.9 VFD |
| **Total ESP** | - | [1] |
| **Fan Inlet SP** | - | [1] |
| **Fan Discharge SP** | - | ATM |

Completed By: Wesley John on 11/21/2024

Notes:
[1] FAN IS UTILITY SET. NO ACCESS TO TAKE STATIC PRESSURE READING.

Written By: Wesley John on 11/21/2024

### Unit Data - PHOTO LOG

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# National TAB

**Project: 11-18-24 FREDDY'S - ALEXANDRIA, LA**

## System/Unit: FAN - Exhaust

**Asset: KEF2** AREA:HOOD-2

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | GREENHECK | CAPTIVE-AIRE |
| **Model Num** | SP-A200-390 | DU50HFA |
| **Serial Num** | - | 5976146 |
| **Type** | CENTRIFUGAL | CENTRIFUGAL |
| **Configuration** | UPBLAST | UPBLAST |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | TELCO |
| **Frame** | - | NL |
| **Horsepower** | - | 0.50 |
| **Motor Rpm** | - | 1800 |
| **Phase** | - | 1 |
| **Voltage (rated)** | - | 115 |
| **Amperage (rated)** | - | 6.3 |
| **Service Factor** | - | NL |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 775 | 773 |
| **Fan RPM** | - | 1062 |
| **Fan Rotation** | - | CCW |
| **Motor RPM** | - | 1062 |
| **System SetPt** | - | 59% |
| **RL Voltage** | - | 122 |
| **RL Amperage** | - | 2.6 |
| **Total ESP** | 0.50" | 0.53" |
| **Fan Inlet SP** | - | -0.53" |
| **Fan Discharge SP** | - | ATM |

Completed By: Wesley John on 11/21/2024

### Unit Data - PHOTO LOG

**11/21/2024**

# National TAB

**Project: 11-18-24 FREDDY'S - ALEXANDRIA, LA**

## System/Unit: Kitchen Hood Type I

**Asset: HD1** AREA:COOKLINE

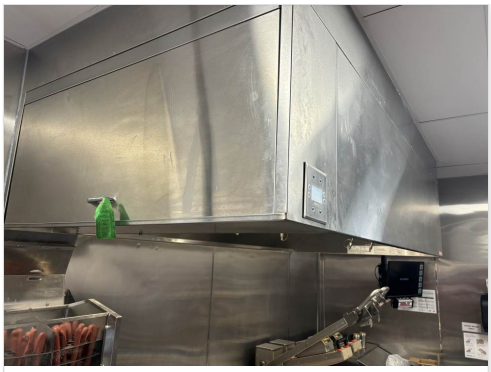
| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | CAPTIVE-AIRE | CAPTIVE-AIRE |
| **Model Num** | 5424 ND-2 | 5424 ND-2 |
| **Job / Serial Num** | - | 7025802 |
| **Type** | TYPE I CANOPY | TYPE I CANOPY |
| **Hood length** | - | 96" |
| **Hood Width** | - | 54" |

| Test Data Exhaust | | |
|---|---|---|
| | **Design** | **Actual** |
| **Filter Type** | CAPTRATE SOLO | CAPTRATE SOLO |
| **Filter Size 1** | 16x16 | 16x16 |
| **Filter Qty 1** | 5 | 5 |
| **Filter AK factor size 1** | 1.62 | 1.62 |
| **Filter Total AK Area** | 8.10 | 8.10 |
| **Filter1 FPM** | - | 207 |
| **Filter2 FPM** | - | 191 |
| **Filter3 FPM** | - | 230 |
| **Filter4 FPM** | - | 190 |
| **Filter5 FPM** | - | 178 |
| **Filter Ave FPM(corr)** | - | 199 |
| **CFM** | 1600 | 1612 |

| Cooking Equipment | |
|---|---|
| | **Actual** |
| **Item 1** | GRIDDLE |

Completed By: Wesley John on 11/20/2024

### Unit Data - PHOTO LOG



**11/21/2024**

# National TAB

**Project: 11-18-24 FREDDY'S - ALEXANDRIA, LA**

## System/Unit: Kitchen Hood Type I

**Asset: HD2** AREA:COOKLINE

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | CAPTIVE-AIRE | CAPTIVE-AIRE |
| **Model Num** | 5424 ND-2 | 5424 ND-2 |
| **Job / Serial Num** | - | 7025802 |
| **Type** | TYPE I CANOPY | TYPE I CANOPY |
| **Hood length** | - | 60" |
| **Hood Width** | - | 54" |

| Test Data Exhaust | | |
|---|---|---|
| | **Design** | **Actual** |
| **Filter Type** | CAPTRATE SOLO | CAPTRATE SOLO |
| **Filter Size 1** | 16x16 | 16x16 |
| **Filter Qty 1** | 3 | 3 |
| **Filter AK factor size 1** | 1.62 | 1.62 |
| **Filter Total AK Area** | 4.86 | 4.86 |
| **Filter1 FPM** | - | 157 |
| **Filter2 FPM** | - | 155 |
| **Filter3 FPM** | - | 155 |
| **Filter Ave FPM(corr)** | - | 155 |
| **CFM** | 775 | 753 |

| Cooking Equipment | |
|---|---|
| | **Actual** |
| **Item 1** | FRYERS |

Completed By: Wesley John on 11/20/2024

### Unit Data - PHOTO LOG


**11/21/2024**