**Report By:**

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

**Report: TAB REPORT**

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

**Date: 07/18/2023**

# PROJECT

## 06-26-23 FREDDY'S - POWELL, TN

NEED ADDRESS

POWELL, TN

Client

RKS Ventures, Inc.

9340 E Central Ave

Suite A

Wichita, KS 67206

# National TAB

**Project: 06-26-23 FREDDY'S - POWELL, TN**

## Table Of Contents

# CheckList List

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

# 06-26-23 FREDDY'S - POWELL, TN

## CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | TECH - SITE PICTURE | **Status :** | Not Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 06/29/2023 - Brianna Biggs - National TAB | | |

## CheckList Item Details

STORE FRONT

**Comment:**

**StoreFront**
**06/29/2023**

---

RTU-1

**Comment:**

**Rtu1**
**06/29/2023**

---

RTU-2

**Comment:**

**Rtu2(1)**
**06/29/2023**

---

KEF-1

**Comment:**

**Kef1**
**06/29/2023**

| | |
|---|---|
| KEF-2 | Yes |

**Comment:**

**Kef2**
**06/29/2023**

| | |
|---|---|
| EF-3 | Yes |

**Comment:**

**Ef3(1)**
**06/29/2023**

| | |
|---|---|
| MUA-1 | Yes |

**Comment:**

| | |
|---|---|
| HOOD-1 | Yes |

**Comment:**

**Hood1**
**06/29/2023**

| | |
|---|---|
| HOOD-2 | Yes |

**Comment:**

**Hood2**
**06/29/2023**

# 06-26-23 FREDDY'S - POWELL, TN

## CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | TECH - STEP 1: INITIAL WALKTHROUGH | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 06/29/2023 - Brianna Biggs - 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

# 06-26-23 FREDDY'S - POWELL, TN

## CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | TECH - STEP 2: UNIT DATA AND EVAL | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 06/29/2023 - Brianna Biggs - National TAB | | |
| **Completed Date :** | | | |

## 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:** | |
| Yes | |
| 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:**

Yes

| | |
|---|---|
| Grease cup installed on hood fan? | Yes |

**Comment:**

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

**MUA**

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

**Comment:**

| | |
|---|---|
| Gas piping is installed and valves are in on position? | Yes |

**Comment:**

| | |
|---|---|
| Heater tested and is functional? | Yes |

**Comment:**

| | |
|---|---|
| Internal motorized damper is fully opening? | Yes |

**Comment:**

| | |
|---|---|
| Motor is operating below the FLA rating? | 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:** | |
| Griddle is completely centered underneath hood? | Yes |
| **Comment:** | |
| **DOCUMENTATION** | |
| Have trades/general contractor been notified about any issues and are they created on FaciliBuild? | Yes |
| **Comment:** | |
| **PICTURES TAKEN OF:** | |
| All Issues | Yes |
| **Comment:** | |
| Each Piece of equipment | Yes |
| **Comment:** | |
| Each Hood | Yes |
| **Comment:** | |
| Front of Store | Yes |
| **Comment:** | |

# 06-26-23 FREDDY'S - POWELL, TN

## CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | TECH - STEP 3: TEST, ADJUST AND BALANCE | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 06/29/2023 - Brianna Biggs - 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 | |

# 06-26-23 FREDDY'S - POWELL, TN

## CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | TECH - STEP 4: FINAL TESTS | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 06/29/2023 - Brianna Biggs - National TAB | | |
| **Completed Date :** | | | |

## 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 test capture - Perimeter of hood | |
| **Comment:** | |
| YES | |
| Smoke test capture - Top of cooking surface | |
| **Comment:** | |
| YES | |
| **WITNESS** | |
| Date test was completed | 06/28/2023 |

**Comment:**

TAB tech name / Firm

**Comment:**

SERGIO DEL TORO

Site super name / Firm

**Comment:**

JAMES

Owner representative name / Firm (if Applicable)

**Comment:**

NA

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

**Comment:**

Front 0.001 Side 0.008 Rear -0.001

**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:**

**Thermostats Schdedules: Program all thermostats to following settings:**

| | |
|---|---|
| All three thermostats have correct time/date? (if not set correctly) | Yes |

**Comment:**

| | |
|---|---|
| Occupied Time: 8am-11:55pm | Yes |

**Comment:**

| | |
|---|---|
| Occupied Fan ON | Yes |

| | |
|---|---|
| **Comment:** | |
| Occupied cooling 74 | Yes |
| **Comment:** | |
| Occupied heating 68 | Yes |
| **Comment:** | |
| Unoccupied Time 11:55pm-8am | Yes |
| **Comment:** | |
| Unoccupied Fan Auto | Yes |
| **Comment:** | |
| Unoccupied cooling 79 | Yes |
| **Comment:** | |
| Unoccupied heating 63 | Yes |
| **Comment:** | |
| Set a Partial Screen Lock for Thermostats (i.e., make sure temperature is adjustable but not schedule) | Yes |
| **Comment:** | |
| Password is set to 999 for Partial Screen Lock? | Yes |
| **Comment:** | |
| **RTU Economizers** | |
| **Note: These instructions are for Lennox units. There are similar settings for other OEMs. Call office for assistance if needed.** | |
| Enthalpy is set to "D" for all three units | No |
| **Comment:** | |
| "DCV Set" dials turned all the way to the left (counter clockwise) | No |

**Comment:**

| | |
|---|---|
| "DCV Max" dials turned all the way to the left (counter clockwise) | No |

**Comment:**

# National TAB

**Project: 06-26-23 FREDDY'S - POWELL, TN**

## System/Unit: AHU/RTU

**Asset: RTU1** AREA:

| Unit Data | | | | Test Data | | |
|---|---|---|---|---|---|---|
| | **Design** | **Actual** | | | **Design** | **Actual** |
| **MFG** | Lenox | TRANE | **SF CFM** | | 3000 | 2880 |
| **Serial Num** | - | 223210079D | **SF RPM** | | - | 940 |
| **Model Num** | LGH092 | YHD150G3RHD1AH0B10000B000000000A00000 | **RA CFM** | | 2700 | 2576 |
| **Type** | - | RTU | **OA CFM** | | 300 | 304 |
| **Configuration** | - | VERTICAL | **RL Voltage** | | - | 207.4/205.6/206.9V |
| **Num OA Filters 1** | - | 1 | **RL Amperage** | | - | 1.7/1.7/1.9A |
| **OA Filter Size 1** | - | 36.5X15 | **SF Rotation** | | - | CORRECT |
| **Num Final Filter 1** | - | 4 | **RA Damper Position** | | - | 89% |
| **Final Filter Size 1** | - | 20X25X2 | **Min OA Damper Position** | | - | 11% |
| | | | **Min OA Damper Type** | | - | OPPOSED BLADE |
| | | | **OA Enthalpy Setpt** | | - | E |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | NA |
| **Frame** | - | NA |
| **Horsepower** | 2 | 2.75 |
| **Motor Rpm** | - | NA |
| **Phase** | 3 | 3 |
| **Rated Voltage** | 208 | 208V |
| **Rated Amperage** | - | 7.30A |

| Performance Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MA Plenum SP** | - | -0.76" |
| **Fan Suction SP** | - | -0.93" |
| **Fan Discharge SP** | - | 0.14" |
| **Total ESP** | 1.0 | 0.90" |
| **Fan Total SP** | - | 1.07" |

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

Completed By: Sergio Del Toro on 06/28/2023

# National TAB

**Project:06-26-23 FREDDY'S - POWELL, TN**

## AHU/RTU

**Diffuser Supply (GRD)**

**RTU1/**

| Asset | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Asset Name** | **Location** | **Type** | **Size** | **DESIGN CFM** | **AK** | **CFM(1)** | **CFM(2)** | **FINAL CFM** | **% to design** |
| AHU2-SGRD1 | Kitchen | SD-2 | 10" | 300 | 1 | 437 | 328 | 328 | 109.3 |
| AHU2-SGRD2 | Kitchen | ACPSP | 8" | 505 | 7.83 | 923 | 553 | 553 | 109.5 |
| AHU2-SGRD3 | Kitchen | SD-2 | 10" | 300 | 1 | 253 | 228 | 228 | 76.0 |
| AHU2-SGRD4 | Kitchen | SD-5 | 6" | 95 | 1 | 92 | 87 | 75 | 78.9 |
| AHU2-SGRD5 | Kitchen | SD-2 | 10" | 295 | 1 | 322 | 266 | 266 | 90.2 |
| AHU2-SGRD6 | Kitchen | SD-2 | 10" | 295 | 1 | 322 | 269 | 269 | 91.2 |
| AHU2-SGRD7 | Kitchen | SD-2 | 10" | 300 | 1 | 322 | 272 | 272 | 90.7 |
| AHU2-SGRD8 | Kitchen | SD-2 | 10" | 300 | 1 | 322 | 274 | 274 | 91.3 |
| AHU2-SGRD9 | Kitchen | ACPSP | 8" | 309 | 4.35 | 604 | 341 | 341 | 110.4 |
| AHU2-SGRD10 | Kitchen | SD-2 | 10" | 300 | 1 | 328 | 274 | 274 | 91.3 |
| Total | | | | 2999 | | 3925 | 2892 | 2880 | 96.03% |

**Completed By: Sergio Del Toro on 06/28/2023**

# National TAB

**Project: 06-26-23 FREDDY'S - POWELL, TN**

## System/Unit: AHU/RTU

**Asset: RTU2** AREA:

| Unit Data | | | | Test Data | | |
|---|---|---|---|---|---|---|
| | **Design** | **Actual** | | | **Design** | **Actual** |
| **MFG** | Lenox | TRANE | **SF CFM** | | 4850 | 4721 |
| **Serial Num** | - | 223210168L | **SF RPM** | | - | NA |
| **Model Num** | LGH150 | YHC092F3RMA27H0B10000B0000000D0 | **RA CFM** | | 3850 | 3801 |
| **Type** | - | RTU | **OA CFM** | | 1000 | 920 |
| **Configuration** | - | VERTICAL | **RL Voltage** | | - | 208.2/206.8/207.7V |
| **Num OA Filters 1** | - | 1 | **RL Amperage** | | - | 6.7/6.7/6.8A |
| **OA Filter Size 1** | - | 60X17 | **SF Rotation** | | - | CORRECT |
| **Num Final Filter 1** | - | 4 | **RA Damper Position** | | - | 81% |
| **Final Filter Size 1** | - | 20X20X2 | **Min OA Damper Position** | | - | 19% |
| **Num Final Filter 2** | - | 4 | **Min OA Damper Type** | | - | OPPOSED BLADE |
| **Final Filter Size 2** | - | 20X25X2 | **OA Enthalpy Setpt** | | - | E |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | NA |
| **Frame** | - | NA |
| **Horsepower** | 5 | 3 |
| **Motor Rpm** | - | NA |
| **Phase** | 3 | 3 |
| **Rated Voltage** | 208 | 208 |
| **Rated Amperage** | - | 10.6A |

| Drive Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor Sheave Size** | - | 3.5" |
| **Motor Bore Size** | - | 3/4" |
| **Motor Sheave SetPt** | - | NA |
| **Fan Sheave Size** | - | 10.5" |
| **Fan Sheave Bore** | - | 1" |
| **Belt CL Distance** | - | 22" |
| **Num of Belts** | - | 1 |
| **Belt Size** | - | BX68 |
| **Belt Alignment** | - | CORRECT |

| Performance Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MA Plenum SP** | - | -0.36" |
| **Fan Suction SP** | - | -0.52" |
| **Fan Discharge SP** | - | 0.18" |
| **Total ESP** | 1.0 | 0.54" |
| **Fan Total SP** | - | 0.70" |

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

Completed By: Sergio Del Toro on 06/28/2023

# National TAB

**Project:06-26-23 FREDDY'S - POWELL, TN**

## AHU/RTU

**Diffuser Supply (GRD)**

**RTU2/**

| Asset | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Asset Name** | **Location** | **Type** | **Size** | **DESIGN CFM** | **AK** | **CFM(1)** | **CFM(2)** | **FINAL CFM** | **% to design** |
| AHU1-SGRD1 | Dining | SD-1 | 12" | 500 | 1 | 516 | 519 | 519 | 103.8 |
| AHU1-SGRD2 | Dining | SD-1 | 12" | 500 | 1 | 472 | 475 | 475 | 95.0 |
| AHU1-SGRD3 | Dining | SD-1 | 12" | 425 | 1 | 433 | 428 | 428 | 100.7 |
| AHU1-SGRD4 | Dining | SD-1 | 12" | 425 | 1 | 365 | 394 | 394 | 92.7 |
| AHU1-SGRD5 | Dining | SD-1 | 12" | 500 | 1 | 386 | 453 | 453 | 90.6 |
| AHU1-SGRD6 | Dining | SD-1 | 12" | 500 | 1 | 400 | 471 | 471 | 94.2 |
| AHU1-SGRD7 | Dining | SD-1 | 12" | 425 | 1 | 419 | 419 | 419 | 98.6 |
| AHU1-SGRD8 | Dining | SD-1 | 12" | 500 | 1 | 428 | 468 | 468 | 93.6 |
| AHU1-SGRD9 | Dining | SD-1 | 12" | 425 | 1 | 450 | 447 | 447 | 105.2 |
| AHU1-SGRD10 | Dining | SD-1 | 12" | 500 | 1 | 486 | 486 | 486 | 97.2 |
| AHU1-SGRD11 | Dining | SD-5 | 10" | 50 | 1 | 103 | 54 | 54 | 108.0 |
| AHU1-SGRD12 | Dining | SD-5 | 10" | 100 | 1 | 115 | 107 | 107 | 107.0 |
| Total | | | | 4850 | | 4573 | 4721 | 4721 | 97.34% |

**Completed By: Sergio Del Toro on 06/28/2023**

# National TAB

**Project: 06-26-23 FREDDY'S - POWELL, TN**

## System/Unit: FAN - Exhaust

**Asset: EF1** AREA:

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | Cook | COOK |
| **Model Num** | GC-146 | GC-146 |
| **Serial Num** | - | 5266912 |
| **Type** | Ceiling | CEILING |
| **Configuration** | Vertical | VERTICAL |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | S&P |
| **Frame** | - | NA |
| **Horsepower** | 30.3W | 13W |
| **Motor Rpm** | - | NA |
| **Phase** | 1 | 1 |
| **Voltage (rated)** | 120 | 120 |
| **Amperage (rated)** | - | NA |
| **Service Factor** | - | NA |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 75 | 68 |
| **Fan RPM** | 900 | NA |
| **Fan Rotation** | - | CORRECT |
| **Motor RPM** | - | NA |
| **System SetPt** | - | SETTING 2 |
| **RL Voltage** | - | NA |
| **RL Amperage** | - | NA |
| **Total ESP** | 0.25 | 0.11 |
| **Fan Inlet SP** | - | -0.11" |
| **Fan Discharge SP** | - | ATM |

Completed By: Sergio Del Toro on 06/29/2023

# National TAB

**Project: 06-26-23 FREDDY'S - POWELL, TN**

## System/Unit: FAN - Exhaust

**Asset: EF2** AREA:

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | Cook | COOK |
| **Model Num** | GC-168 | GC-168 |
| **Serial Num** | - | 5266912 |
| **Type** | Ceiling | CEILING |
| **Configuration** | Vertical | VERTICAL |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | S&P |
| **Frame** | - | NA |
| **Horsepower** | 50.4W | 13W |
| **Motor Rpm** | - | NA |
| **Phase** | 1 | 1 |
| **Voltage (rated)** | 120 | 120 |
| **Amperage (rated)** | - | NA |
| **Service Factor** | - | NA |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 150 | 142 |
| **Fan RPM** | 1099 | NA |
| **Fan Rotation** | - | CORRECT |
| **Motor RPM** | - | NA |
| **System SetPt** | - | SETTING 3 |
| **RL Voltage** | - | NA |
| **RL Amperage** | - | NA |
| **Total ESP** | 0.25 | 0.17" |
| **Fan Inlet SP** | - | -0.17" |
| **Fan Discharge SP** | - | ATM |

Completed By: Sergio Del Toro on 06/29/2023

# National TAB

**Project: 06-26-23 FREDDY'S - POWELL, TN**

## System/Unit: FAN - Exhaust

**Asset: KEF1** AREA:

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | CaptiveAire | CAPTIVEAIRE |
| **Model Num** | CASRE18DD | CASRE18DD |
| **Serial Num** | - | 5266912 |
| **Type** | UTILITY | UTILITY |
| **Configuration** | Vertical | VERTICAL |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | TECO |
| **Frame** | - | 145T |
| **Horsepower** | 1.000 | 1 |
| **Motor Rpm** | - | 1150 |
| **Phase** | 3 | 3 |
| **Voltage (rated)** | 208 | 230V |
| **Amperage (rated)** | - | 3.44A |
| **Service Factor** | - | 1.15 |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 1600 | 1644 |
| **Fan RPM** | 1105 | NA |
| **Fan Rotation** | - | CORRECT |
| **Motor RPM** | - | NA |
| **System SetPt** | - | 63.7HZ |
| **RL Voltage** | - | NA |
| **RL Amperage** | - | NA |
| **Total ESP** | 1.400 | 0.92" |
| **Fan Inlet SP** | - | -0.92" |
| **Fan Discharge SP** | - | ATM |

# National TAB

**Project: 06-26-23 FREDDY'S - POWELL, TN**

## System/Unit: FAN - Exhaust

**Asset: KEF2** AREA:

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | CaptiveAire | CAPTIVEAIRE |
| **Model Num** | DU50HFA | DU50HFA |
| **Serial Num** | - | 5266912 |
| **Type** | Upblast/Ceiling | UPBLAST |
| **Configuration** | Vertical | VERTICAL |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | TELCO GREEN |
| **Frame** | - | NA |
| **Horsepower** | 0.500 | 1/2 |
| **Motor Rpm** | - | 1800 |
| **Phase** | 1 | 1 |
| **Voltage (rated)** | 115 | 115V |
| **Amperage (rated)** | - | 6.3A |
| **Service Factor** | - | NA |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 775 | 787 |
| **Fan RPM** | 1532 | NA |
| **Fan Rotation** | - | CORRECT |
| **Motor RPM** | - | NA |
| **System SetPt** | - | 59% |
| **RL Voltage** | - | NA |
| **RL Amperage** | - | NA |
| **Total ESP** | 1250 | 0.37 |
| **Fan Inlet SP** | - | -0.37" |
| **Fan Discharge SP** | - | ATM |

Completed By: Sergio Del Toro on 06/27/2023

# National TAB

**Project: 06-26-23 FREDDY'S - POWELL, TN**

## System/Unit: FAN - Supply

**Asset: MUA1** AREA:

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | CaptiveAire | CAPTIVEAIRE |
| **Model Num** | A1-D.250-15D-MPU | A1-D.250-15D-MPU |
| **Serial Num** | - | 5266912 |
| **Type** | MUA | MUA |
| **Configuration** | Vertical | VERTICAL |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | TECO |
| **Frame** | - | 145T |
| **Horsepower** | 3.000 | 3 |
| **Motor Rpm** | - | 3480 |
| **Phase** | 3 | 3 |
| **Voltage (rated)** | 208 | 230V |
| **Amperage (rated)** | - | 7.64A |
| **Service Factor** | - | 1.15 |

| Gas Heat | | |
|---|---|---|
| | **Design** | **Actual** |
| **Heater Operates (y/n)** | - | Y |
| **Flame Status (pass/fail)** | - | PASS |
| **Inlet Air Temp SetPt** | 55 | 55 |
| **Discharge Air Temp SetPt** | 60 | 60 |
| **Air Flow Switch SP Actual** | - | 0.41" |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 1900 | 1755 |
| **SF RPM** | 2176 | NA |
| **Motor RPM** | - | NA |
| **SF System SetPt** | - | 39.3HZ |
| **RL Voltage** | - | 159 |
| **RL Amperage** | - | NA |
| **Total ESP** | - | 0.55" |
| **Fan Discharge SP** | - | 0.55" |

| General | | |
|---|---|---|
| | **Design** | **Actual** |
| **Fan Rotation Correct** | - | YES |

Completed By: Sergio Del Toro on 06/27/2023

# National TAB

**Project: 06-26-23 FREDDY'S - POWELL, TN**

## System/Unit: Kitchen Hood Type I

**Asset: HD1** AREA:

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | CaptiveAire | CAPTIVEAIRE |
| **Model Num** | 5424 ND-2-ACPSP-F | 5424 ND-2-ACPSP-F |
| **Job / Serial Num** | - | 5266912 |
| **Type** | Canopy | TYPE I CANOPY |
| **Hood length** | 96" | 108" |
| **Hood Width** | 54" | 54" |
| **Supply Plenum Type** | - | ACPSP |
| **Supply Plenum Width** | 14" | 12" |
| **Supply Plenum Length** | 108" | 108" |

| 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** | 8.1 | 8.1 |
| **Filter1 FPM** | - | 183 |
| **Filter2 FPM** | - | 203 |
| **Filter3 FPM** | - | 225 |
| **Filter4 FPM** | - | 218 |
| **Filter5 FPM** | - | 189 |
| **Filter Ave FPM(corr)** | - | 203 |
| **CFM** | 1600 | 1644 |

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

| Test Data Supply | | |
|---|---|---|
| | **Design** | **Actual** |
| **Total AK Area** | 10.5 | 9 |
| **Kv factor (Vel)** | 0.89 | 0.87 |
| **Num of Readings** | - | 8 |
| **Reading1 FPM** | - | 146 |
| **Reading2 FPM** | - | 154 |
| **Reading3 FPM** | - | 160 |
| **Reading4 FPM** | - | 163 |
| **Reading5 FPM** | - | 168 |
| **Reading6 FPM** | - | 132 |
| **Reading7 FPM** | - | 137 |
| **Reading8 FPM** | - | 141 |
| **Ave FPM(corr)** | - | 150 |
| **CFM** | 1280 | 1175 |

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# National TAB

**Project: 06-26-23 FREDDY'S - POWELL, TN**

## System/Unit: Kitchen Hood Type I

**Asset: HD2** AREA:

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | CaptiveAire | CAPTIVEAIRE |
| **Model Num** | 5424 ND-2-ACPSP-F | 5424 ND-2-ACPSP-F |
| **Job / Serial Num** | - | 5266912 |
| **Type** | Canopy | TYPE 1 CANOPY |
| **Hood length** | 60" | 60" |
| **Hood Width** | 54" | 54" |
| **Supply Plenum Type** | - | ACPSP |
| **Supply Plenum Width** | 12" | 12" |
| **Supply Plenum Length** | 60" | 60" |

| 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** | - | 163 |
| **Filter2 FPM** | - | 158 |
| **Filter3 FPM** | - | 164 |
| **Filter Ave FPM(corr)** | - | 162 |
| **CFM** | 775 | 787 |

| Cooking Equipment | | |
|---|---|---|
| | **Design** | **Actual** |
| **Item 1** | - | FRYER |

| Test Data Supply | | |
|---|---|---|
| | **Design** | **Actual** |
| **Total AK Area** | 5 | 5 |
| **Kv factor (Vel)** | 0.87 | 0.87 |
| **Num of Readings** | - | 4 |
| **Reading1 FPM** | - | 139 |
| **Reading2 FPM** | - | 153 |
| **Reading3 FPM** | - | 186 |
| **Reading4 FPM** | - | 143 |
| **Ave FPM(corr)** | - | 155 |
| **CFM** | 620 | 674 |

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