**Report By:**

**National TAB**
**1329 E Kemper Rd, Ste 4210**
**Cincinnati, OH 45246**

**Report:** **Test and Balance**
**Date:** **1/20/2017**

# PROJECT

## PIADA - TYLER, TX

8924 S. Broadway Ave., Building R1-A, Suite 140
Tyler, TX

**Client**

Piada Italian Street Food
1440 King Ave
Columbus, OH 43212

# National TAB

**Project: PIADA - TYLER, TX**

## Table Of Contents

## Deficiency List

| Priority (High/Low/Info Only) | Description |
|---|---|
| **Info Only** | EF-2 (Hood 2) is maximized at 87%. The unit is operating at full load amps and cannot be increased. The low airflow is not affecting the systems performance and the hood capture was observed at 100%. No further action is required. |
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NATIONAL · TAB

National TAB NEBB JOE HERTENSTEIN CERTIFICATION 3629 Exp. 3/31/17 Air and Hydronic Systems

| | |
|---|---|
| **PROJECT:** | PIADA |
| **SYSTEM:** | AIR BALANCE SCHEDULE |
| **LOCATION:** | TYLER, TX |

| | HVAC SUPPLY | | HVAC RETURN | | HVAC OUTDOOR | | HOOD MAKE-UP | | HOOD EXHAUST | | GENERAL | | AREA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **UNIT** | DESIGN | ACTUAL | DESIGN | ACTUAL | DESIGN | ACTUAL | DESIGN | ACTUAL | DESIGN | ACTUAL | DESIGN | ACTUAL | SERVED |
| RTU-1 | 4000 | 3948 | 3200 | 3078 | 800 | 870 | | | | | | | DINING |
| RTU-2 | 3000 | 2932 | 2500 | 2391 | 500 | 541 | | | | | | | KITCHEN |
| EF-1 | | | | | | | | | 2757 | 2767 | | | HOOD 1 |
| EF-2 | | | | | | | | | 1659 | 1439 | | | HOOD 2 |
| EF-3 | | | | | | | | | | | 300 | 322 | RESTROOM |
| MUA-1 | | | | | | | 3655 | 3643 | | | | | HOOD 1&2 |
| **TOTAL EXH** | 7000 | 6880 | 5700 | 5469 | 1300 | 1411 | 3655 | 3643 | -4416 | -4206 | -300 | -322 | |
| **TOTL OA** | - | - | - | - | 4955 | 5054 | - | - | | | -4716 | -4528 | |
| | | | | | | | | | | | 239 | 526 | **NET AIRFLOW** |

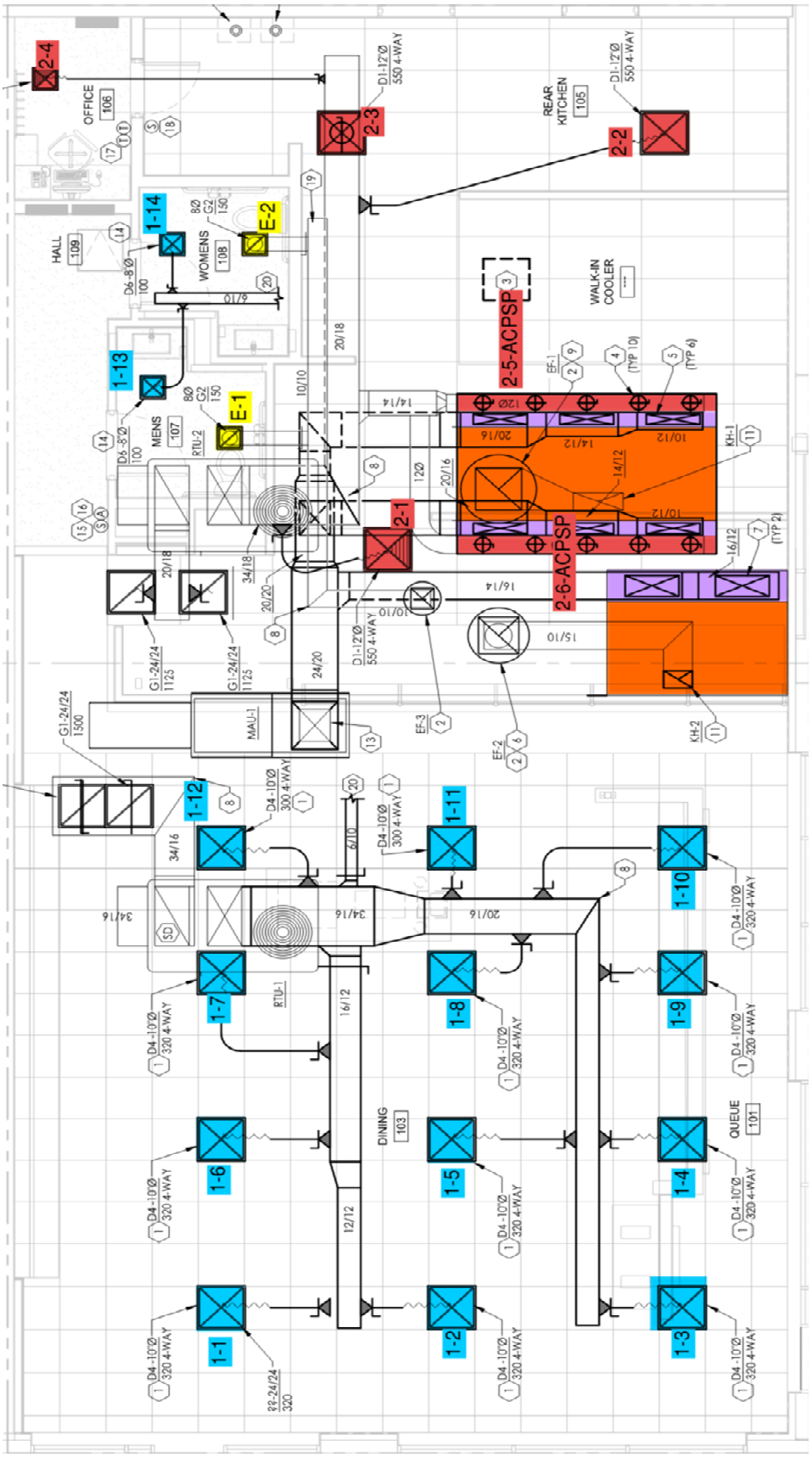
SYSTEM COMPONENTS TO ASSETS SCHEDULED ABOVE

| **UNIT** | FILTER TYPE/#/SIZE | MAU TYPE | SIZE | HOOD MAKE-UP | HOOD EXHAUST | NET CFM | MANUFACTURER |
|---|---|---|---|---|---|---|---|
| HD1 | SOLO 7 16X16 | ACPSP | 135X9 | 2178 | 2757 | -579 | CAPTIVE-AIRE |
| HD2 | SOLO 4 16X16 | PSP | 135X9 | 1477 | 1659 | -182 | CAPTIVE-AIRE |

| **DOOR TESTED** | **BUILDING PRESSURE MEASUREMENTS (IN. H20)** |
|---|---|
| FRONT | 0.024 |
| SIDE | - |
| REAR | 0.006 |
| AVERAGE | 0.015 |

NOTES:


Carrier


OFFICE
106
REAR KITCHEN
105
HALL
109
WOMENS
108
MENS
107
WALK-IN COOLER
DINING
103
QUEUE
101
2-4
2-3
2-2
2-1
2-5-ACPSP
2-6-ACPSP
1-14
1-13
1-12
1-11
1-10
1-9
1-8
1-7
1-6
1-5
1-4
1-3
1-2
1-1
E-1
E-2
RTU-1
RTU-2
MAU-1
EF-1
EF-2
EF-3
KH-1
KH-2
D1-12Ø 550 4-WAY
D4-10Ø 300 4-WAY
D4-10Ø 320 4-WAY
D6-8Ø 100
G1-24/24 1125
G1-24/24 1500
G2-24/24 320


## BUILDING PRESSURE AND SMOKE CONTAINMENT TEST

Assigned Organization: National TAB

Status: Not Submitted

Asset:

| | |
|---|---|
| **HOOD CAPTURE TEST** | |
| LIST EQUIPMENT TURNED ON FOR TESTING | NONE |
| LIST SMOKE CANDLE TYPE USED | 45 SECOND SMOKE CARTRIDGE |
| SMOKE TEST CAPTURE - PERIMETER OF HOOD | 100 |
| SMOKE TEST CAPTURE - TOP OF COOKING SURFACE | 100 |
| **WITNESS** | |
| DATE TEST WAS COMPLETED | 1/6/2017 |
| TAB TECH NAME / FIRM | ROBERT SEPEDA / NATIONAL TAB |
| SITE SUPR NAME / FIRM | RICK CLARK / SCI |
| OWNER REPRESENTATIVE NAME / FIRM (IF APPLICABLE) | NOT PRESENT |
| CODE OFFICIAL NAME / FIRM (IF APPLICABLE) | NOT PRESENT |
| BUILDING PRESSURE AT FRONT & BACK DOORS (ALL SYSTEMS ON) | FRONT .024 / BACK .006 |

**Notes/Comments:**


## EXHAUST FAN SITE EVAL

Assigned Organization: National TAB

Status: Not Submitted

Asset:

| EXHAUST FAN | |
|---|---|
| Verify units marked for easy identification | No |
| Unit sealed and properly seated to roof curb | Yes |
| No unusual vibration or noise present | Yes |
| Belts properly tensioned and free of damage | Yes |
| Pulleys properly aligned | Yes |
| Blower wheel moves freely by hand | Yes |
| Unit is providing required airflow | No |
| Verify on/off disconnect works | Yes |
| Verify voltage input is correct | Yes |
| Fan rotation is correct? | Yes |

**Notes/Comments:**

FANS ARE NOT LABELED IN LARGE BOLD TEXT.  EF-2 IS LOW BUT IS AT MAXIMUM RATED MOTOR AMPS.


## HVAC SITE EVAL

Assigned Organization: National TAB

Status: Not Submitted

Asset:

| HVAC DUCTWORK CHECKLIST | |
|---|---|
| Ductwork and diffusers are installed per design | Yes |
| Balance dampers installed and functional | Yes |
| Balance dampers are accessible | Yes |
| Ductwork is properly covered with insulation, & Insulation is secured | Yes |
| Tops of diffusers are properly insulated | Yes |
| Installed diffusers match design | Yes |

**Notes/Comments:**


## RTU SITE EVAL

Assigned Organization: National TAB

Status: Not Submitted

Asset:

| RTU CHECKLIST | |
|---|---|
| Units are labeled and installed at proper locations | No |
| Units size matches its design (nameplate) | Yes |
| Clean filters are installed at DX coil | Yes |
| Belts are tight and in good working order | Yes |
| Pulleys are properly aligned | Yes |
| Motors rotating correctly | Yes |
| Motors are operating under full load amps | Yes |
| Units sealed and properly seated to roof curb | Yes |
| Evaporator coils clean and free of debris | Yes |
| Gas piping installed | Yes |
| Gas valves turned in the on position | Yes |
| Condensate lines and P-traps installed correctly | Yes |
| Disconnect switch installed | Yes |
| No noticeable vibration or noise exist correct? | Yes |
| Economizer filters installed | Yes |
| Outside air dampers installed and functioning | Yes |
| Outside air damper positions are clearly marked | Yes |
| Is unit bringing in sufficient amount of outside air | Yes |
| Unit is providing required supply airflow | Yes |
| Condensor coil clean and free of damage | Yes |
| Verify voltage input correct | Yes |

**Notes/Comments:**

UNITS ARE NOT LABELED IN LARGE BOLD TEXT.

# National TAB

**Project: PIADA - TYLER, TX**

## System/Unit: AHU/RTU

**Asset: RTU1** AREA: DINING

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | TRANE | CARRIER |
| **Model Num** | YSC120 | 48HCFE11B2M |
| **Serial Num** | - | 4816P85713 |
| **Type** | RTU | RTU |
| **Configuration** | VERTICAL DISCHARGE | VERTICAL DISCHARGE |
| **Num OA Filters 1** | - | 1 |
| **OA Filter Size 1** | - | 21X36X1 |
| **Num Final Filter 1** | - | 4 |
| **Final Filter Size 1** | - | 20X20X2 |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | MARATHON |
| **Frame** | - | 56HZ |
| **Horsepower** | - | 3.7 |
| **Motor Rpm** | - | 1725 |
| **Phase** | 3 | 3 |
| **Rated Voltage** | 208 | 208 |
| **Rated Amperage** | - | 10.6 |
| **Service Factor** | - | 1.15 |

| Drive Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor Sheave Size** | - | 1VM50 |
| **Motor Bore Size** | - | 7/8" |
| **Motor Sheave SetPt** | - | 0 TURNS OPEN |
| **Fan Sheave Size** | - | AFD74 |
| **Fan Sheave Bore** | - | 1" |
| **Belt CL Distance** | - | 16 1/4 |
| **Num of Belts** | - | 1 |
| **Belt Size** | - | AX49 |
| **Belt Alignment** | - | CORRECT |

Completed By: Robert Sepeda on 01/06/2017

Notes:

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **SF CFM** | 4000 | 3948 |
| **SF RPM** | - | 1088 |
| **RA CFM** | 3200 | 3078 |
| **OA CFM** | 800 | 870 |
| **RL Voltage** | - | 220/218/219 |
| **RL Amperage** | - | 9.8/9.4/9.0 |
| **SF Rotation** | - | CCW |
| **RA Damper Position** | - | 8 1/4 |
| **Min OA Damper Position** | - | 1/2 |
| **Min OA Damper Type** | - | SINGLE BLADE |
| **Brake Horse Power** | - | 3.28 |

| Performance Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MA Plenum SP** | - | -1.04 |
| **Fan Suction SP** | - | -1.56 |
| **Fan Discharge SP** | - | .76" |
| **Total ESP** | 0.90" | 1.80" |
| **Fan Total SP** | - | 2.32" |

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


### Diffuser Supply (GRD)

***RTU1 / DINING***

| Asset | Area Served | Type | Size | DESIGN CFM | CFM(1) | CFM(2) | FINAL CFM | % to design |
|---|---|---|---|---|---|---|---|---|
| SGRD1 | DINING | D4 | 10" | 320 | 324 | 391 | 350 | 109.4 |
| SGRD2 | DINING | D4 | 10" | 320 | 332 | 383 | 347 | 108.4 |
| SGRD3 | DINING | D4 | 10" | 320 | 259 | 316 | 332 | 103.8 |
| SGRD4 | DINING | D4 | 10" | 320 | 237 | 263 | 294 | 91.9 |
| SGRD5 | DINING | D4 | 10" | 320 | 273 | 322 | 341 | 106.6 |
| SGRD6 | DINING | D4 | 10" | 320 | 206 | 260 | 299 | 93.4 |
| SGRD7 | DINING | D4 | 10" | 320 | 147 | 168 | 290 | 90.6 |
| SGRD8 | DINING | D4 | 10" | 320 | 221 | 276 | 298 | 93.1 |
| SGRD9 | DINING | D4 | 10" | 320 | 194 | 240 | 293 | 91.6 |
| SGRD10 | DINING | D4 | 10" | 320 | 43 | 338 | 348 | 108.8 |
| SGRD11 | DINING | D4 | 10" | 300 | 238 | 262 | 282 | 94.0 |
| SGRD12 | DINING | D4 | 10" | 300 | 138 | 129 | 271 | 90.3 |
| SGRD13 | RESTROOM | D6 | 8" | 100 | 105 | 109 | 110 | 110.0 |
| SGRD14 | RESTROOM | D6 | 8" | 100 | 50 | 55 | 93 | 93.0 |

**Completed By: Robert Sepeda on 01/06/2017**

| Asset | Area Served | Notes |
|---|---|---|

# National TAB

**Project: PIADA - TYLER, TX**

## System/Unit: AHU/RTU

**Asset: RTU2** AREA: KITCHEN

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | TRANE | CARRIER |
| **Model Num** | YSC092 | 48HCFD08B2M |
| **Serial Num** | - | 4916P42671 |
| **Type** | RTU | RTU |
| **Configuration** | VERTICAL DISCHARGE | VERTICAL DISCHARGE |
| **Num OA Filters 1** | - | 1 |
| **OA Filter Size 1** | - | 21X36X1 |
| **Num Final Filter 1** | - | 4 |
| **Final Filter Size 1** | - | 20X20X2 |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | MARATHON |
| **Frame** | - | 56HZ |
| **Horsepower** | - | 2.4 |
| **Motor Rpm** | - | 1725 |
| **Phase** | 3 | 3 |
| **Rated Voltage** | 208 | 208 |
| **Rated Amperage** | - | 6.9 |
| **Service Factor** | - | 1.15 |

| Drive Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor Sheave Size** | - | 1VL44 |
| **Motor Bore Size** | - | 5/8" |
| **Motor Sheave SetPt** | - | 3 1/2 TURNS OPEN |
| **Fan Sheave Size** | - | AFD74 |
| **Fan Sheave Bore** | - | 1" |
| **Belt CL Distance** | - | 16 3/4 |
| **Num of Belts** | - | 1 |
| **Belt Size** | - | A48 |
| **Belt Alignment** | - | CORRECT |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **SF CFM** | 3000 | 2932 |
| **SF RPM** | - | 800 |
| **RA CFM** | 2500 | 2391 |
| **OA CFM** | 500 | 541 |
| **RL Voltage** | - | 221/219/219 |
| **RL Amperage** | - | 5.0/4.9/4.8 |
| **SF Rotation** | - | CW |
| **RA Damper Position** | - | 8 1/4 |
| **Min OA Damper Position** | - | 1/2 |
| **Min OA Damper Type** | - | SINGLE BLADE |
| **Brake Horse Power** | - | 1.70 |

| Performance Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MA Plenum SP** | - | -.57" |
| **Fan Suction SP** | - | -.79" |
| **Fan Discharge SP** | - | .41" |
| **Total ESP** | 0.90" | .98" |
| **Fan Total SP** | - | 1.20" |

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

Completed By: Robert Sepeda on 01/06/2017

Notes:


### Diffuser Supply (GRD)

***RTU2 / KITCHEN***

| Asset | Area Served | Type | Size | DESIGN CFM | CFM(1) | CFM(2) | FINAL CFM | % to design |
|---|---|---|---|---|---|---|---|---|
| SGRD1 | PREP | D1 | 12" | 550 | 479 | 539 | 525 | 95.5 |
| SGRD2 | PREP | D1 | 12" | 550 | 475 | 550 | 534 | 97.1 |
| SGRD3 | PREP | D1 | 12" | 550 | 505 | 595 | 570 | 103.6 |
| SGRD4 | OFFICE | D2 | 8" | 250 | 189 | 219 | 228 | 91.2 |
| SGRD5 | HOOD 1 BACK ACPSP | ACPSP | 135X6 | 550 | 459 | 515 | 531 | 96.5 |
| SGRD6 | HOOD 1 FRONT ACPSP | ACPSP | 135X6 | 550 | 468 | 527 | 544 | 98.9 |

**Completed By: Robert Sepeda on 01/06/2017**

| Asset | Area Served | Notes |
|---|---|---|


**Asset: MAU1** AREA: HOOD 1&2

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | CAPTIVE-AIRE | CAPTIVE-AIRE |
| **Model Num** | A2-D.500-G15-PB | A2-D.500-G15-PB |
| **Serial Num** | - | 2745491 |
| **Type** | MAU | MAU |
| **Configuration** | VERTICAL DISCHARGE | VERTICAL DISCHARGE |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | TECO |
| **Frame** | - | 182T |
| **Horsepower** | 3 | 3 |
| **Motor Rpm** | - | 1755 |
| **Phase** | 3 | 3 |
| **Voltage (rated)** | 208 | 208 |
| **Amperage (rated)** | - | 9.51 |
| **Service Factor** | - | 1.15 |

| Drive Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor Sheave Size** | - | 2VP42 |
| **Motor Bore Size** | - | 1 1/8 |
| **Fan Sheave Size** | - | 2BK70H |
| **Fan Sheave Bore** | - | 1" |
| **Belt CL Distance** | - | 19 1/4 |
| **Num of Belts** | - | 2 |
| **Belt Size** | - | BX52 |
| **Belt Alignment Verified** | - | YES |

| 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 |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 3655 | 3643 |
| **SF RPM** | - | 859 |
| **SF Rotation** | - | CW |
| **Motor RPM** | - | 1643 |
| **RL Voltage** | - | 209 |
| **RL Amperage** | - | 6.5 |
| **Total ESP** | 0.60" | - |
| **Fan Discharge SP** | - | - |

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

Completed By: Robert Sepeda on 01/06/2017

Notes: [1] UNIT WAS MEASURE AT THE INLET ON ROOF

# National TAB

**Project: PIADA - TYLER, TX**

## System/Unit: FAN - Exhaust

**Asset: EF1** AREA: HOOD 1

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | CAPTIVE-AIRE | CAPTIVE-AIRE |
| **Model Num** | DU180HFA | DU180HFA |
| **Serial Num** | - | 2745491 |
| **Type** | CENTRIFUGAL | CENTRIFUGAL |
| **Configuration** | UPBLAST | UPBLAST |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | TECO |
| **Frame** | - | 182T |
| **Horsepower** | 3 | 3 |
| **Motor Rpm** | - | 1755 |
| **Phase** | 3 | 3 |
| **Voltage (rated)** | 208 | 208 |
| **Amperage (rated)** | - | 9.51 |
| **Service Factor** | - | 1.15 |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 3382 | 2767 |
| **Fan RPM** | 1399 | DIRECT DRIVE |
| **Fan Rotation** | - | CCW |
| **Motor RPM** | - | DIRECT DRIVE |
| **System SetPt** | - | 34HZ |
| **RL Voltage** | - | 83 |
| **RL Amperage** | - | 5.7 |
| **Total ESP** | 1.50" | .77" |
| **Fan Inlet SP** | - | -.77" |
| **Fan Discharge SP** | - | NA |

Completed By: Robert Sepeda on 01/06/2017

Notes: AIRFLOW BALANCED TO HOOD DESIGN.

# National TAB

**Project: PIADA - TYLER, TX**

## System/Unit: FAN - Exhaust

**Asset: EF2** AREA: HOOD 2

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | CAPTIVE-AIRE | CAPTIVE-AIRE |
| **Model Num** | DU85HFA | DU85HFA |
| **Serial Num** | - | 2745491 |
| **Type** | CENTRIFUGAL | CENTRIFUGAL |
| **Configuration** | UPBALST | UPBLAST |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | HSSA |
| **Frame** | - | NOT LISTED |
| **Horsepower** | 0.75 | 3/4 |
| **Motor Rpm** | - | 1725 |
| **Phase** | 3 | 3 |
| **Voltage (rated)** | 208 | 208 |
| **Amperage (rated)** | - | 2.6 |
| **Service Factor** | - | 1.15 |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 1659 | 1439 |
| **Fan RPM** | 1285 | DIRECT DRIVE |
| **Fan Rotation** | - | CCW |
| **Motor RPM** | - | DIRECT DRIVE |
| **System SetPt** | - | 50HZ |
| **RL Voltage** | - | 215 |
| **RL Amperage** | - | 2.6 |
| **Total ESP** | 1.00" | 1.35" |
| **Fan Inlet SP** | - | -1.35" |
| **Fan Discharge SP** | - | NA |

Completed By: Robert Sepeda on 01/06/2017

Notes: FAN IS SET TO MOTOR RATED AMPS. UNABLE TO REACH DESIGN AIRFLOW.


**Asset: EF3** AREA: RESTROOM

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | GREENHECK | CENTRI MASTER |
| **Model Num** | G-081 | PV075E7 |
| **Serial Num** | - | 16K1484-1 |
| **Type** | CENTRIFUGAL | CENTRIFUGAL |
| **Configuration** | DOWNBLAST | DOWNBLAST |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | MARATHON |
| **Frame** | - | 48YZ |
| **Horsepower** | 0.25 | 1/4 |
| **Motor Rpm** | - | 1725 |
| **Phase** | 1 | 1 |
| **Voltage (rated)** | 120 | 115 |
| **Amperage (rated)** | - | 5.5 |
| **Service Factor** | - | 1.35 |

| Drive Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor Sheave Size** | - | MVL40 |
| **Motor Bore Size** | - | 1/2 |
| **Motor Sheave SetPt** | - | 4 TURNS OPEN |
| **Fan Sheave Size** | - | MA38 |
| **Fan Sheave Bore** | - | 5/8 |
| **Belt CL Distance** | - | 6 5/8 |
| **Num of Belts** | - | 1 |
| **Belt Size** | - | 3L230 |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 300 | 322 |
| **Fan RPM** | - | 1362 |
| **Fan Rotation** | - | CW |
| **Motor RPM** | - | 1768 |
| **RL Voltage** | - | 121 |
| **RL Amperage** | - | 3.7 |
| **Suction ESP** | - | -.30" |
| **Discharge ESP** | - | NA |
| **Total ESP** | 0.75" | .30" |
| **Brake Horse Power** | - | .17 |

Completed By: Robert Sepeda on 01/06/2017

Notes:

**Diffuser Ret/Exh (GRD)**

***EF3 / RESTROOM***

| Asset | Area Served | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) | FINAL CFM | % to design |
|---|---|---|---|---|---|---|---|---|---|
| EGRD1 | RESTROOM | G2 | 8" | 150 | | 197 | 174 | 157 | 104.7 |
| EGRD2 | RESTROOM | G2 | 8" | 150 | | 233 | 209 | 165 | 110.0 |

**Completed By: Robert Sepeda on 01/06/2017**

| Asset | Area Served | Notes |
|---|---|---|

# National TAB

**Project: PIADA - TYLER, TX**

## System/Unit: Kitchen Hood Type I

**Asset: HD1** AREA: HOOD 1

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | CAPTIVE-AIRE | CAPTIVE-AIRE |
| **Model Num** | 5424 ND-2WI-ACPSP-FB | 5424 ND-2WI-ACPSP-FB |
| **Job / Serial Num** | - | 2745491 |
| **Type** | TYPE I CANOPY | TYPE I CANOPY |
| **Hood length** | 123 | 121 |
| **Hood Width** | 54 | 51 |
| **Supply Plenum Type** | ACPSP | ACPSP |
| **Supply Plenum Width** | 9 | 9 |
| **Supply Plenum Length** | 135 | 135 |

| Test Data Exhaust | | |
|---|---|---|
| | **Design** | **Actual** |
| **Filter Type** | CAPTRATE SOLO | CAPTRATE SOLO |
| **Filter Size 1** | 16X16 | 16X16 |
| **Filter Qty 1** | 7 | 7 |
| **Filter AK factor size 1** | 1.62 | 1.62 |
| **Filter Total AK Area** | 11.34 | 11.34 |
| **Filter1 FPM** | - | 209 |
| **Filter2 FPM** | - | 242 |
| **Filter3 FPM** | - | 265 |
| **Filter4 FPM** | - | 267 |
| **Filter5 FPM** | - | 270 |
| **Filter6 FPM** | - | 242 |
| **Filter7 FPM** | - | 210 |
| **Filter High FPM(corr)** | - | 270 |
| **Filter Low FPM (corr)** | - | 209 |
| **Filter Ave FPM(corr)** | - | 244 |
| **CFM** | 2757 | 2767 |

| Cooking Equipment | | |
|---|---|---|
| | **Design** | **Actual** |
| **Item 1** | - | DEEP FRYER |
| **Item 2** | - | CHARGRILL |
| **Item 3** | - | RANGE |
| **Item 4** | - | DEEP FRYER |

| Test Data Supply | | |
|---|---|---|
| | **Design** | **Actual** |
| **AK factor** | 1 | 1 |
| **Total AK Area** | 8.44 | 8.44 |
| **Kv factor (Vel)** | - | - |
| **Reading1 FPM** | - | 158/135 |
| **Reading2 FPM** | - | 172/154 |
| **Reading3 FPM** | - | 164/152 |
| **Reading4 FPM** | - | 165/138 |
| **Reading5 FPM** | - | 144/130 |
| **Reading6 FPM** | - | 196/174 |
| **Reading7 FPM** | - | 158/184 |
| **Reading8 FPM** | - | 130/161 |
| **Reading9 FPM** | - | 151/167 |
| **Reading10 FPM** | - | 145/210 |
| **Reading11 FPM** | - | 119/183 |
| **High FPM(corr)** | - | 196/210 |
| **Low FPM(corr)** | - | 119/130 |
| **Ave FPM(corr)** | - | 155/162 |
| **CFM** | 1089 | [1] FRONT / BACK |

| Performance Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Smoke Generation Type** | - | 45 SECOND SMOKE CARTRIDGE |
| **Cooking Equip Heat On** | - | NOT ON |
| **Hood Capture %** | - | 100 |
| **Space Offset Temp Riser 1** | - | 15 |
| **Space Offset Temp Riser 2** | - | 15 |
| **Riser Temp F (idle) Riser 1** | - | 69.2/68.5 |
| **Riser Temp F (idle) Riser 2** | - | 70.3/61.1 |
| **Ambient Room Temp** | - | 69.4 |
| **100% override functional** | - | YES |

| General | | |
|---|---|---|
| | **Design** | **Actual** |
| **Third Party Witness** | - | RICK CLARK |
| **Third Party Company** | - | SCI STOVALL CONST. |
| **Tech Witness** | - | ROBERT SEPEDA |
| **Tech Company** | - | NATIONAL TAB |


Completed By: Robert Sepeda on

Notes: [1] MEASURED AT THE INLET ON THE ROOF; VELOCITIES TAKE FOR REFERENCE

# National TAB

**Project: PIADA - TYLER, TX**

## System/Unit: Kitchen Hood Type I

**Asset: HD2** AREA: HOOD 2

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | CAPTIVE-AIRE | CAPTIVE-AIRE |
| **Model Num** | 5424 ND-2WI-PSP-F | 5424 ND-2WI-PSP-F |
| **Job / Serial Num** | - | 2745491 |
| **Type** | TYPE I CANOPY | TYPE I CANOPY |
| **Hood length** | 74 | 72 |
| **Hood Width** | 54 | 51 |
| **Supply Plenum Type** | PSP | PSP |
| **Supply Plenum Width** | 18 | 18 |
| **Supply Plenum Length** | 94 | 95 |

| Test Data Exhaust | | |
|---|---|---|
| | **Design** | **Actual** |
| **Filter Type** | CAPTRATE SOLO | CAPTRATE SOLO |
| **Filter Size 1** | 16X16 | 16X16 |
| **Filter Qty 1** | 4 | 4 |
| **Filter AK factor size 1** | 1.62 | 1.62 |
| **Filter Total AK Area** | 6.48 | 6.48 |
| **Filter1 FPM** | - | 226 |
| **Filter2 FPM** | - | 224 |
| **Filter3 FPM** | - | 225 |
| **Filter4 FPM** | - | 214 |
| **Filter High FPM(corr)** | - | 226 |
| **Filter Low FPM (corr)** | - | 214 |
| **Filter Ave FPM(corr)** | - | 222 |
| **CFM** | 1659 | 1439 |

| Cooking Equipment | | |
|---|---|---|
| | **Design** | **Actual** |
| **Item 1** | - | STONE / EVO |
| **Item 2** | - | CONVECTION SKILLET |

| Test Data Supply | | |
|---|---|---|
| | **Design** | **Actual** |
| **AK factor** | 1 | 1 |
| **Total AK Area** | 11.75 | 11.75 |
| **Kv factor (Vel)** | - | - |
| **Reading1 FPM** | - | 164 |
| **Reading2 FPM** | - | 164 |
| **Reading3 FPM** | - | 159 |
| **Reading4 FPM** | - | 191 |
| **Reading5 FPM** | - | 161 |
| **Reading6 FPM** | - | 149 |
| **Reading7 FPM** | - | 147 |
| **Reading8 FPM** | - | 152 |
| **Reading13 FPM** | - | - |
| **Reading14 FPM** | - | - |
| **High FPM(corr)** | - | 191 |
| **Low FPM(corr)** | - | 147 |
| **Ave FPM(corr)** | - | 161 |
| **CFM** | 1477 | 1892 |

| Performance Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Smoke Generation Type** | - | 45 SECOND SMOKE CARTRIDGE |
| **Cooking Equip Heat On** | - | NOT ON |
| **Hood Capture %** | - | 100% |
| **100% override functional** | - | YES |

| General | | |
|---|---|---|
| | **Design** | **Actual** |
| **Third Party Witness** | - | RICK CLARK |
| **Third Party Company** | - | STOVALL CONST |
| **Tech Witness** | - | ROBERT SEPEDA |
| **Tech Company** | - | NATIONAL TAB |

Completed By: Robert Sepeda on

Notes: