

Report By:

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



**Report: TAB REPORT**  
**Function: Test, Adjust, & Balance**  
**Date: 08/01/2024**

**PROJECT**  
**06-17-24 CAVA YUKON, OK (10TH ST)**

12701 NW 10th St

YUKON, OK 73099

Client

CAVA

702 H ST NW

2nd floor

Washington, DC 20001

# National TAB

Project: 06-17-24 CAVA YUKON, OK (10TH ST)

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## 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.

### MUA (Make Up Air Unit) w/ PSP

Total flow for the MAU (Make-up Air Unit) unit was measured by readings taken at the discharge of the hood's perforated supply plenum. Readings taken with a velocity matrix were averaged and multiplied by a manufacturer's corrected area. Adjustments to the fan speed were made in order to bring the unit to within design tolerance. Any MUA'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

- EF2
- EF2 - AIRFLOW
- RTU-1 KITCHEN DIFFUSERS
- RTU-2 DIFFUSERS



06-17-24 CAVA YUKON, OK (10TH ST)

**Project Issue Information**

**Issue Name :** EF2  
**Description :** BACK DRAFT DAMPER IS NOT INSTALLED  
**Created By :** National TAB                      **Assigned To :** National TAB - Will Turnbough  
**Status :** Open  
**Priority :** Medium                                      **Asset Tag :**  
**Originated Date :** 06/18/2024 - Kristopher Passley - National TAB

Project Issue File Details



06/18/2024



**06-17-24 CAVA YUKON, OK (10TH ST)**

**Project Issue Information**

**Issue Name :** EF2 - AIRFLOW  
**Description :** FAN IS ON HIGH AIRFLOW, NO FAN SPEED CONTROLLER INSTALLED. RECOMMEND INSTALLED SPEED CONTROLLER TO BRING FAN INTO DESIGN.  
**Created By :** National TAB                      **Assigned To :** National TAB - Will Turnbough  
**Status :** Open  
**Priority :** Urgent                                      **Asset Tag :**  
**Originated Date :** 06/19/2024 - Kristopher Passley - National TAB

Project Issue File Details



06/19/2024



06/19/2024

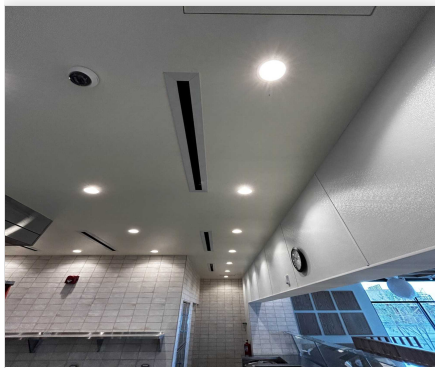


**06-17-24 CAVA YUKON, OK (10TH ST)**

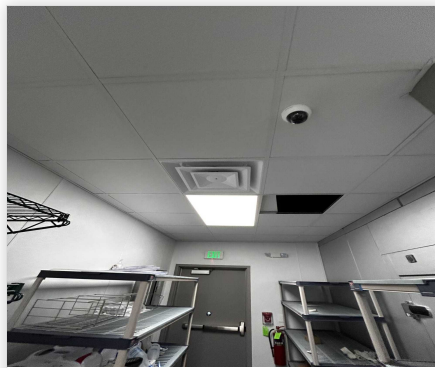
**Project Issue Information**

**Issue Name :** RTU-1 KITCHEN DIFFUSERS  
**Description :** KITCHEN DIFFUSERS 1-1,1-2,1-3 and 1-8 HAVE CLOSED DAMPERS THAT ARE INACCESSIBLE. NEED MECHANICAL TO OPEN OR CHECK FOR BLOCKAGE.  
**Created By :** National TAB                      **Assigned To :** National TAB - Will Turnbough  
**Status :** Open  
**Priority :** Urgent                                      **Asset Tag :**  
**Originated Date :** 06/20/2024 - Kristopher Passley - National TAB

Project Issue File Details



06/20/2024



06/20/2024

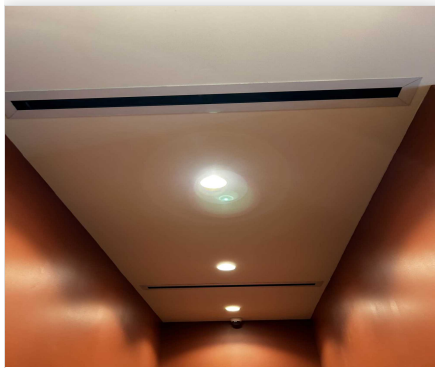


**06-17-24 CAVA YUKON, OK (10TH ST)**

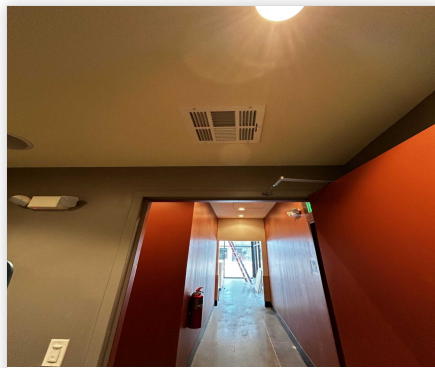
**Project Issue Information**

**Issue Name :** RTU-2 DIFFUSERS  
**Description :** RESTROOM AND HALLWAY DIFFUSERS 2-11, 2-12 and 2-14 HAVE CLOSED DAMPERS THAT ARE INACCESSIBLE. NEED MECHANICAL TO OPEN DAMPER OR CHECK FOR BLOCKAGE.  
**Created By :** National TAB                      **Assigned To :** National TAB - Will Turnbough  
**Status :** Open  
**Priority :** Urgent                                      **Asset Tag :**  
**Originated Date :** 06/20/2024 - Kristopher Passley - National TAB

Project Issue File Details



06/20/2024



06/20/2024

### 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	KITCHEN	3394	3422	3044	3062	350	360	10.3%	10.5%						
RTU-2	DINING	4000	4250	3350	3572	650	678	16.3%	16.0%						
MUA-1	KITCHEN HOOD									1965	2046				
EF-1	KITCHEN HOOD											2381	2413		
EF-2	RESTROOM													250	489
<b>TOTALS</b>		7394	7672	6394	6634	1000	1038			1965	2046	2381	2413	250	489

#### NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	2965	3084
TOTAL EXHAUST	2631	2902
<b>NET AIRFLOW</b>	<b>334</b>	<b>182</b>

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H <sub>2</sub> O)
FRONT	0.0023
SIDE	-0.002
REAR	0.0003
<b>AVERAGE</b>	<b>0.0002</b>

#### 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

- FIV - EF'S
- FIV - HVAC DUCTWORK
- FIV - RTU'S
- FIV – HOODS
- FIV – MUA
- FPT - BUILDING PRESSURE AND HOOD CONTAINMENT
- FPT - KEF'S
- FPT - RTU's
- FPT – MUA
- TECH - SITE PICTURES



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CheckList Information

**Name :** FIV - EF'S **Status :** Not Completed

**Assigned Organization :** National TAB **Asset :**

**Requesting Organization :** National TAB

**Created Date :** 06/13/2024 - Brianna Biggs - National TAB

CheckList Item Details

<b>Unit Tag matches the design and submittal MFG and Model</b>	<b>Fail</b>
--	-------------

**Comment:**

KEF-1 MATCHES DESIGN EF2 DOES NOT MATCH SUBMITTAL MFG AND MODEL

<b>Each exhaust fan is proper tagged for proper identification with tags sized and placed on the fan for visual ease</b>	<b>Pass</b>
--	-------------

**Comment:**

<b>Fans are installed in the correct location and orientation</b>	<b>Pass</b>
---	-------------

**Comment:**

<b>All packing, material and debris has been removed from the blower/wheel housing and the motor compartment</b>	<b>Pass</b>
--	-------------

**Comment:**

<b>Fan wheels turn easily by hand (turn power off prior to testing)</b>	<b>Pass</b>
---	-------------

**Comment:**

<b>Fans grease duct curb top plate is properly transitioned to the fan inlet and flush on top of the curb, sealed to the fan base to prevent leakage</b>	<b>Pass</b>
--	-------------

**Comment:**

Exhaust fans have external disconnects and are connected to allow full hinging of each exhaust fan

Pass

Comment:

Fan is properly hinged and supported when hinged fully back for grease duct access (for Halton fans, ensure the base mounted disconnect is not hitting the fan base/curb when fully hinged back)

Pass

Comment:

Grease cups are properly installed and connected to the fan base grease drain to prevent spilling outside of the grease cup

Pass

Comment:

Exhaust fans are located 5ft from parapet wall and 10ft from any fresh air intake.

Pass

Comment:



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CheckList Information

**Name :** FIV - HVAC DUCTWORK **Status :** Not Completed  
**Assigned Organization :** National TAB **Asset :**  
**Requesting Organization :** National TAB  
**Created Date :** 06/13/2024 - Brianna Biggs - National TAB

CheckList Item Details

KVS - GREASE DUCT (HOOD SYSTEM)

Grease duct is sized and routed per plan	Pass
--	------

Comment:

Grease duct is properly supported	Pass
-----------------------------------	------

Comment:

Grease duct has code required negative pitch from fan inlet back to the hood riser connection	Pass
---	------

Comment:

Grease duct has required clean-out doors installed, labeled, and accessible for removal/cleaning. Doors are located as required by code	Fail
---	------

Comment:

Grease duct clean-out doors are secured using tool less fasteners and seal fully when hand tightened	Fail
--	------

Comment:

Grease duct is centered in the curb and transitions as required to ensure the fan inlet is fully covered by the grease duct opening. Duct top plate flanges to the edges of the curb and is secured and flat so that the fan sits flush and square.	Pass
---	------

Comment:

Grease duct is wrapped if welded duct, or is double wall round duct?

Pass

Comment:

**KVS - MUA DUCT (HOOD SYSTEM)**

MUA duct is routed and sized as per plan

Pass

Comment:

MUA duct is properly supported

Pass

Comment:

MUA duct seams are sealed air tight using proper sealant and application for SMACNA pressure rating of duct systems

Yes

Comment:

MUA duct is externally insulated and taped to prevent vapor barrier from being breached

Pass

Comment:

MUA duct drop box and transitions are done to encourage laminar flow and avoid restrictions

Pass

Comment:

Branch take-off's have accessible dampers exposed for the TAB team to adjust each line as necessary

Pass

Comment:

Flex duct (if used) is supported and straight with no more than one (1) hard 90 degree elbow and less than 5ft in total length

Pass

Comment:

Connection to the hood MUA plenum is secured and foil taped to prevent air leakage

Pass

Comment:

**RESTROOM DUCT**

Restroom duct is routed and sized per plan

Pass

Comment:

Restroom duct is properly supported

Pass

Comment:

Duct seams are sealed

Yes

Comment:

Dampers are accessible to TAB team for balancing

Fail

Comment:

Flex duct (if used) is supported and straight with no more than one (1) hard 90 degree elbow and less than 5ft in total length

Pass

Comment:

Duct is secured to exhaust register

Pass

Comment:

Gravity damper is installed, opens and closes freely, and is sealed to prevent air leakage

Fail

Comment:

Duct to curb transition is centered and sized to ensure it covers the entire fan inlet. Curb top plate is flush and secured to the ends of the curb.

Pass

Comment:

#### HVAC DUCT

Kitchen and Dining room duct is routed and sized as per plan

Pass

Comment:

Ducts are properly supported

Pass

Comment:

Ductwork is externally insulated

Yes

**Comment:**

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<b>Duct seams are sealed air tight using proper sealant and application for SMACNA pressure rating of duct systems</b>	<b>Fail</b>
--	-------------

---

**Comment:**

---

<b>Ducts are securely insulated as per specificatins and foil taped to prevent air barrier from being breached</b>	<b>Pass</b>
--	-------------

---

**Comment:**

---

<b>Takeoffs are installed to serve required terminal diffusers and are equipped with accessible dampers for TAB team access and can be opened or closed fully with no impingements</b>	<b>Pass</b>
--	-------------

---

**Comment:**

---

<b>Flex duct (if used) is supported and straight with no more than one (1) hard 90 degree elbow and less than 5ft in total length</b>	<b>Fail</b>
---	-------------

---

**Comment:**

RTU 1, DIFFUSER 1-8 HAS A FLEX DUCT WITH A LARGER THAN 90 DEGREE ELBOW.

---

<b>Takeoff to diffuser is installed securely to prevent slippage and air leakage</b>	<b>Pass</b>
--	-------------

---

**Comment:**

---

<b>All diffuser neck or opening sizes are installed as planned</b>	<b>Pass</b>
--	-------------

---

**Comment:**

---

<b>Supply and Return duct transitions to top of RTU curb, sized to full width and length of opening and is flashed fully to the sides of the curb.</b>	<b>Pass</b>
--	-------------

---

**Comment:**



06-17-24 CAVA YUKON, OK (10TH ST)

CheckList Information

**Name :** FIV - RTU'S **Status :** Not Completed

**Assigned Organization :** National TAB **Asset :**

**Requesting Organization :** National TAB

**Created Date :** 06/13/2024 - Brianna Biggs - National TAB

CheckList Item Details

**RTU IDENTIFICATION, ORIENTATION & LOCATION**

Each RTU is tagged for proper identification with tags sized and placed on the fan for visual ease Pass

Comment:

Identify and ensure the RTU label information and size is correct Pass

Comment:

Ensure proper location of unit Pass

Comment:

Ensure orientation of curb & RTU is per plan Pass

Comment:

Ensure Packing in the blower compartment has been removed Pass

Comment:

**RTU - INSTALLATION DETAILS**

With disconnect switch "off" spin the indoor and outdoor fan wheel's by hand and ensure they spin freely Pass

Comment:

Ensure Roof Curb is fully flashed by roofing material and secured and curb is level	Pass
Comment:	
Inspect the interior of the supply heat exchange compartment and return air compartment - validate that the duct is flashed and sealed to the top of the curb to prevent leakage or short cycling	Pass
Comment:	
Hail guards installed on outdoor condenser coils	Pass
Comment:	
<b>RTU - ACCESSORIES</b>	
Power connected & disconnect installed	Pass
Comment:	
Gas line connected per specification (size, painting, supports, shut-off valves, traps)	Pass
Comment:	
OA hood & filters installed	Pass
Comment:	
Economizer wired to control board	Pass
Comment:	
Evaporator coil filters are properly installed with specified MERV rating	Pass
Comment:	
Economizer damper is installed properly	Pass
Comment:	
Economizer OA temperature / enthalpy sensors installed and wired	Pass
Comment:	
Thermostat and humidity (if applicable) control wires wired to RTU terminals	Pass

**Comment:**

---

**Condensate drain installed per specification**

Pass

---

**Comment:**

---

**Condensate line drains away from unit to a approved roof drain**

Pass

---

**Comment:**

---

**Belts are tight?**

N/A

---

**Comment:**

---

**Pulleys aligned?**

N/A

---

**Comment:**

---

**MERV rated filters are installed and are clean?**

Pass

---

**Comment:**

---



06-17-24 CAVA YUKON, OK (10TH ST)

CheckList Information

**Name :** FIV – HOODS **Status :** Not Completed  
**Assigned Organization :** National TAB **Asset :**  
**Requesting Organization :** National TAB  
**Created Date :** 06/13/2024 - Brianna Biggs - National TAB

CheckList Item Details

HOOD INSTALLATION DETAILS

Kitchen hoods tags match design and submitted information	Pass
---	------

Comment:

Kitchen hoods are hung Level using 1/2" threaded rod	Pass
--	------

Comment:

Kitchen hoods are supported using beam clamps and/or Unistrut per required structural and local AHJ requirements	Pass
--	------

Comment:

Kitchen hoods are hung level front to back and side to side	Pass
---	------

Comment:

Kitchen hoods are hung at 80" AFF	
-----------------------------------	--

Comment:

Kitchen Hoods are flush against the wall along the bottom and each of it's side walls.	Pass
--	------

Comment:

Caulk is applied (less than 1/8" thick) from the hood against all wall surfaces or between connecting side to side hoods to prevent grease accumulation inside any crevice.	Pass
---	------

Comment:

There are no penetrations into the hood canopy other than fire system nozzles

Pass

Comment:

The hood is in "As New" condition with no visible damage, rust, pitting, or other blemishes

Pass

Comment:

All protective film has been peeled away from the wall or other areas of impingement to assure it can be easily and fully removed prior to cleaning.

Pass

Comment:

**HOOD ACCESSORIES**

End panels are installed

Pass

Comment:

Hood filters are installed

Pass

Comment:

Grease cups are installed

Fail

Comment:

Ceiling Wrappers are installed and the ceiling grid is fixed to the top of the ceiling wrappers

Pass

Comment:

Hood control panel has been identified and is located as per plan, is accessible, and contains all components and temperature sensors to meet local interlock (normal and abnormal conditions) and heat auto on/off functionality.

Comment:



Comment:

MUA Electrical disconnect is external to the unit and properly wired

Pass

Comment:

Outdoor air awning is installed and fitted with proper OA mesh filters

Pass

Comment:

Condensate drain is installed (for cooling MUA's) with proper traps, clean-outs, and drain away from the unit to an acceptable roof drain

Pass

Comment:

Refrigeration line sets are installed and connected properly with adequate supports per specifications

Pass

Comment:

Condenser is installed away from any grease producing exhaust fans and located as per roof plan

Pass

Comment:

Condenser's electrical disconnect is external to the unit and properly wired (if applicable)

Pass

Comment:

Condenser hail guards are installed (if applicable)

Pass

Comment:

All Condenser compartment and control doors are fully accessible, minimum 36" clearance for service allowing the doors to fully open without restriction (if applicable)

N/A

Comment:

Gas line is installed per specification and properly supported

Pass

Comment:

Gas line is installed per specification and properly supported and contains maintenance shut-off valve, trap, and regulator (if line pressure requires it). MUA is equipped with inlet gas pressure gauge to validate incoming gas pressure is suitable

Pass

Comment:



06-17-24 CAVA YUKON, OK (10TH ST)

**CheckList Information**

**Name :** FPT - BUILDING PRESSURE AND HOOD CONTAINMENT      **Status :** Not Completed

**Assigned Organization :** National TAB      **Asset :**

**Requesting Organization :** National TAB

**Created Date :** 06/13/2024 - Brianna Biggs - National TAB

**CheckList Item Details**

**FINAL TESTS**

**HOOD CAPTURE TEST**

List equipment turned on for testing

Comment:

List smoke candle type used

Comment:

Smoke test capture - Perimeter of hood (%)

Comment:

Smoke test capture - Top of cooking surface (%)

Comment:

**WITNESS**

Date test was completed

Comment:

TAB tech name / Firm

**Comment:**

---

**Site super name / Firm**

---

**Comment:**

---

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

---

**Comment:**

---

**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)**

---

**Comment:**

---



**06-17-24 CAVA YUKON, OK (10TH ST)**

**CheckList Information**

**Name :** FPT - KEF'S **Status :** Not Completed  
**Assigned Organization :** National TAB **Asset :**  
**Requesting Organization :** National TAB  
**Created Date :** 06/13/2024 - Brianna Biggs - National TAB

**CheckList Item Details**

Exhaust fans wheel rotation is correct Pass

Comment:

TAB firm has balanced the exhaust fans to proper design levels Fail

Comment:

All motor and electrical readings are below the full load rating of each fan Pass

Comment:

Exhaust Fans do not have any unusual noise or vibration while operating Pass

Comment:

Smoke and Grease from exhaust fans appear to properly elevate above the parapet wall and off the roof. Pass

Comment:

Hoods have been started up by the manufacturers rep? Pass

Comment:

Hoods free of alarms? Pass

Comment:

Exhaust fans modulate to high speed when kitchen equipment is on and at cooking temperatures? If not, adjust modulation/offset down.

Pass

Comment:



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**CheckList Information**

**Name :** FPT - RTU's **Status :** Not Completed  
**Assigned Organization :** National TAB **Asset :**  
**Requesting Organization :** National TAB  
**Created Date :** 06/13/2024 - Brianna Biggs - National TAB

**CheckList Item Details**

**THERMOSTAT PROGRAMMING AND CALIBRATION**

**Time is correct on the thermostats** Pass

**Comment:**

**Occupied Time = 7:30 AM** Pass

**Comment:**

**Occupied Heat setpoint = 68** Pass

**Comment:**

**Occupied Cooling setpoint = 72** Pass

**Comment:**

**Dehumidification Setpoint = 55%** Pass

**Comment:**

**Occupied Fan = On** Pass

**Comment:**

**Unoccupied Time = 12:00AM** Pass

Comment:

Unoccupied Heat setpoint = 60

Pass

Comment:

Occupied Cooling setpoint = 80

Pass

Comment:

Unoccupied Fan = Auto

Pass

Comment:

Actual measured temperature is within +/-1 degree of temperature displayed on thermostat. If not calibrate the sensor

Pass

Comment:

Actual measured RH is within +/-3 % of displayed RH at RTU or thermostat. If not calibrate the sensor

Pass

Comment:

#### CONTROL WIRING VALIDATION

Economizer Dry Bulb sensor wired

Pass

Comment:

Economizer Dry Bulb sensor operational

Pass

Comment:

OCP/OCC terminal wired correctly

Pass

Comment:

Thermostat Wired correctly (R,C,Y1,Y2,W1,W2)

Pass

Comment:

Humidity Sensor Wired correctly

Pass

Comment:

---

**CALIBRATION & PROGRAMMING**

---

**RTU OA DB StPt, Reading Accuracy (+/- 2 degrees / 10 minute time to calibrate to actual reading)**

Comment:

---

**RTU MAT StPt, Reading Accuracy (+/- 2 degrees / 10 minute time to calibrate to actual reading)**

Comment:

---

**RTU MAT Low StPt**

Comment:

---

**RTU Low T Lockout**

Comment:

---

**Economizer set to 28 BTU/lb enthalpy setpoint.**

Pass

Comment:

---

**Temperature tests**

---

**Outside air temperature / humidity**

Comment:

---

**Full cooling LAT/H**

Comment:

---

**Full heating LAT/H**

Comment:

---

**OUTDOOR AIR / RELIEF DAMPER**

---

**If power exhaust installed, set point is higher than the OA damper setpoint**

Comment:

---

If power exhaust installed, open the OA damper above the power exhaust setpoint and ensure that the power exhaust turns on

Comment:

If relief damper is installed, ensure that it is installed properly and can open freely.

Comment:

#### OCCUPANCY VALIDATION

Place the thermostat in "unoccupied" - Does the OA damper close fully

Comment:

Stage cooling and Heating in "unoccupied" - Does the unit properly stage and does the OA damper remain closed

Comment:

Place the thermostat in "Occupied" - Does the OA damper open to the TAB preset minimum position in High speed

Comment:

Place the thermostat in "Occupied" - Does the OA damper open to the TAB preset minimum position in Low speed (if applicable)

Comment:









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RTU-2

Yes

Comment:



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06/19/2024

KEF-1

Yes

Comment:

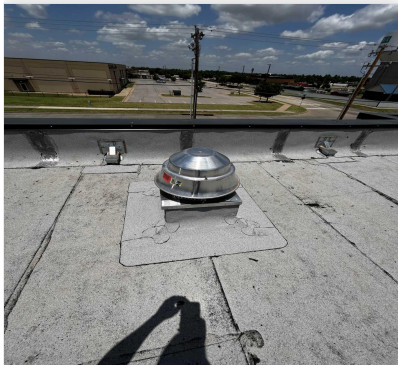


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EF-2

Yes

Comment:



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MUA-1

Yes

Comment:



06/19/2024

HD-1

Yes

Comment:



06/19/2024

# National TAB

Project: 06-17-24 CAVA YUKON, OK (10TH ST)

System/Unit: AHU/RTU



Asset: RTU1

AREA:

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	240510523L
Model Num	YSJ102A3	YSJ102A3SAH04
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	23.875"X37.5"
Num Final Filter 1	-	3
Final Filter Size 1	-	16"X24"X2
Num Final Filter 2	-	2
Final Filter Size 2	-	18"X24"X2

Test Data		
	Design	Actual
SF CFM	3400	3422
RA CFM	3050	3062
OA CFM	350	360
RL Voltage	-	208/208/207
RL Amperage	-	3.9/3.9/3.8
SF Rotation	-	CCW
SF System SetPt	-	72%
RA Damper Position	-	94%
Min OA Damper Position	-	6%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	28 BTU/lb

Motor Data		
	Design	Actual
Motor MFG	-	EBMPAPST
Frame	-	IP20
Horsepower	3	3
Motor Rpm	-	1790
Phase	3	3
Rated Voltage	208	200-240
Rated Amperage	-	8.8A

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.73
Fan Suction SP	-	-1.15"
Fan Discharge SP	-	0.50"
Total ESP	1.0"	1.23"
Fan Total SP	-	1.65"

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
Belt Alignment	DD

General	
	Actual
Fan Rotation Correct	CORRECT
Unit Filters Clean	CLEAN
Condensate Drain Installed	INSTALLED

Completed By: Kristopher Passley on 06/26/2024

# National TAB

Project:06-17-24 CAVA YUKON, OK (10TH ST)

## AHU/RTU



**Diffuser Supply (GRD)**

**RTU1/**

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	KITCHEN	L1	10"	300		0	0	0	0.0
SGRD2	KITCHEN	L1	10"	300		0	0	0	0.0
SGRD3	KITCHEN	L1	10"	300		0	0	0	0.0
SGRD4	KITCHEN	D1	10"	300		470	470	336	112.0
SGRD5	KITCHEN HOOD	ACPSP	139X6	774	4.51	1431	1015	1012	130.7
SGRD6	KITCHEN	L1	10"	260		532	581	736	283.1
SGRD7	KITCHEN	L1	10"	260		474	463	646	248.5
SGRD8	KITCHEN	D1	10"	300		0	0	0	0.0
SGRD9	KITCHEN	D1	10"	300		600	618	330	110.0
SGRD10	KITCHEN	D1	10"	300		504	513	362	120.7
<b>Total</b>				<b>3394</b>		<b>4011</b>	<b>3660</b>	<b>3422</b>	<b>100.82%</b>

# National TAB

Project: 06-17-24 CAVA YUKON, OK (10TH ST)

System/Unit: AHU/RTU



Asset: RTU2

AREA:

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	240610870L
Model Num	YSJ120A3	YSJ120A3SAMO4
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	23.875"X37.5"
Num Final Filter 1	-	3
Final Filter Size 1	-	16"X24"X2"
Num Final Filter 2	-	2
Final Filter Size 2	-	18"X24"X2"

Test Data		
	Design	Actual
SF CFM	4000	4250
RA CFM	3350	3572
OA CFM	650	678
RL Voltage	-	209/208/208
RL Amperage	-	4.1/4.3/4.1
SF Rotation	-	CWW
SF System SetPt	-	75%
RA Damper Position	-	77%
Min OA Damper Position	-	23%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	28 BTU/lb

Motor Data		
	Design	Actual
Motor MFG	-	EBMPAPST
Frame	-	IP20
Horsepower	3	3
Motor Rpm	-	1790
Phase	3	3
Rated Voltage	208	200-240
Rated Amperage	-	8.8

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.73"
Fan Suction SP	-	-1.11"
Fan Discharge SP	-	0.49"
Total ESP	1.0"	1.22"
Fan Total SP	-	1.6"

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
Belt Alignment	DD

General	
	Actual
Fan Rotation Correct	CORRECT
Unit Filters Clean	CLEAN
Condensate Drain Installed	INSTALLED

Completed By: Kristopher Passley on 06/26/2024

# National TAB

Project:06-17-24 CAVA YUKON, OK (10TH ST)

## AHU/RTU



**Diffuser Supply (GRD)**

**RTU2/**

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	DINING	R1	20X6	365		480		381	104.4
SGRD2	DINING	R1	20X6	365		483		375	102.7
SGRD3	DINING	R1	20X6	365		528		417	114.2
SGRD4	DINING	R1	20X6	365		460		363	99.5
SGRD5	DINING	R1	20X6	365		496		392	107.4
SGRD6	DINING	R1	20X6	365		511		404	110.7
SGRD7	DINING	R1	20X6	365		487		385	105.5
SGRD8	DINING	R1	20X6	365		495		420	115.1
SGRD9	DINING	R1	20X6	365		504		398	109.0
SGRD10	DINING	R1	20X6	365		529		481	131.8
SGRD11	HALLWAY	L1	8"	125		0		0	0.0
SGRD12	HALLWAY	L1	8"	125		0		0	0.0
SGRD13	RESTROOM	D2	6"	50		237		234	468.0
SGRD14	RESTROOM	D2	6"	50		0		0	0.0
Total				4000		5210	0	4250	106.25%

# National TAB

Project: 06-17-24 CAVA YUKON, OK (10TH ST)

System/Unit: FAN - Exhaust



Asset: EF2

AREA:

Unit Data		
	Design	Actual
MFG	GREENHECK	PENNBARRY
Model Num	G-080-VG	DX10R
Serial Num	-	J23YZ04002
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	FASCO
Horsepower	0.03	.1667
Motor Rpm	-	1550
Phase	1	1
Voltage (rated)	120	115/200-240
Amperage (rated)	-	1.8/.9

Test Data		
	Design	Actual
CFM	250	489
Fan RPM	-	
Fan Rotation	-	CCW
Motor RPM	-	
System SetPt	-	
RL Voltage	-	121
RL Amperage	-	1.0
Total ESP	0.3"	0.2343"
Fan Inlet SP	-	-0.234"
Fan Discharge SP	-	ATM

Completed By: Kristopher Passley on 06/26/2024

**National TAB**  
 Project:06-17-24 CAVA YUKON, OK (10TH ST)  
**FAN - Exhaust**



**Diffuser Ret/Exh (GRD)**

EF2/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	RESTROOM	G2	8"	125		237		237	189.6
EGRD2	RESTROOM	G2	8"	125		252		252	201.6
Total				250		489	0	489	195.6%

Completed By: Kristopher Passley on 06/26/2024

# National TAB

Project: 06-17-24 CAVA YUKON, OK (10TH ST)

System/Unit: FAN - Exhaust



Asset: KEF1

AREA: KITCHEN HOOD

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU85HFA	DU85HFA
Serial Num	-	5777460
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Horsepower	1	1
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	11.6

Test Data		
	Design	Actual
CFM	2381	2413
Fan RPM	1567	
Fan Rotation	-	CCW
Motor RPM	-	
System SetPt	-	66%
RL Voltage	-	119
RL Amperage	-	5.6
Total ESP	1.0"	0.45
Fan Inlet SP	-	-0.45"
Fan Discharge SP	-	ATM

Completed By: Kristopher Passley on 06/26/2024

# National TAB

Project: 06-17-24 CAVA YUKON, OK (10TH ST)

## System/Unit: FAN - Supply



Asset: MUA1

AREA:COOKLINE

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	A1-D.250-15D-MPU	A1-D.250-15D-MPU
Serial Num	-	5777460
Type	MUA	MUA
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	1965	2046
SF System SetPt	-	34.8 Hz
RL Voltage	-	130 VFD
RL Amperage	-	5.9 VFD
Total ESP	-	0.50"
Fan Discharge SP	-	0.50"

Motor Data		
	Design	Actual
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	145T
Horsepower	2	3/2.2
Motor Rpm	-	3480
Phase	3	3
Voltage (rated)	208	230/460
Amperage (rated)	-	7.64/3.82
Service Factor	-	1.15

General	
	Actual
Fan Rotation Correct	CORRECT

Gas Heat		
	Design	Actual
Heater Operates (y/n)	-	N
Flame Status (pass/fail)	-	FAIL
Inlet Air Temp SetPt	55	55
Discharge Air Temp SetPt	60	60
Air Flow Switch SP Actual	-	.45

Completed By: Kristopher Passley on 06/26/2024

# National TAB

Project: 06-17-24 CAVA YUKON, OK (10TH ST)

## System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	6030 ND-2-ACPSP-F	6030 ND-2-ACPSP-F
Job / Serial Num	-	5777460
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	123"	127"
Hood Width	60"	60"
Supply Plenum Type	-	ACPSP
Supply Plenum Width	14"	14"
Supply Plenum Length	146"	139"

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPSTRATE SOLO
Filter Size 1	16X20	16"X20"
Filter Qty 1	8	7
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	16.64	14.56
Filter1 FPM	-	158
Filter2 FPM	-	162
Filter3 FPM	-	168
Filter4 FPM	-	178
Filter5 FPM	-	172
Filter6 FPM	-	161
Filter7 FPM	-	161
Filter Ave FPM(corr)	-	165.7
CFM	2381	2413

Cooking Equipment	
	Actual
Item 1	FRYER
Item 2	GAS STOVE
Item 3	PLANCHA
Item 4	OVEN

Test Data Supply		
	Design	Actual
Total AK Area	14.19	13.51
Kv factor (Vel)	0.89	0.89
Num of Readings	-	10
Reading1 FPM	-	177
Reading2 FPM	-	142
Reading3 FPM	-	145
Reading4 FPM	-	173
Reading5 FPM	-	153
Reading6 FPM	-	137
Reading7 FPM	-	197
Reading8 FPM	-	189
Reading9 FPM	-	185
Reading10 FPM	-	203
Ave FPM(corr)	-	170.1
CFM	1965	2045

Completed By: Kristopher Passley on 06/26/2024

