

Report By:

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



Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 02/29/2024

PROJECT
02-26-24 CAVA - CHICAGO, IL (WICKER PARK)

1484 NORTH MILWAUKEE AVE

CHICAGO, IL 60622

Client

CAVA

702 H ST NW

2nd floor

Washington, DC 20001

National TAB

Project: 02-26-24 CAVA - CHICAGO, IL (WICKER PARK)

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- FPT - KEF'S
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- FPT – MUA
- SITE PICTURES



02-26-24 CAVA - CHICAGO, IL (WICKER PARK)

CheckList Information

Name : FIV - EF'S **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 02/20/2024 - Brianna Biggs - National TAB

CheckList Item Details

Unit Tag matches the design and submittal MFG and Model Fail

Comment:

EF2 IS NOT A COOK FAN

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

Comment:

Fans are installed in the correct location and orientation Pass

Comment:

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

Comment:

Fan wheels turn easily by hand (turn power off prior to testing) Pass

Comment:

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 Pass

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)

Fail

Comment:



**Nohingekit
02/28/2024**

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:



02-26-24 CAVA - CHICAGO, IL (WICKER PARK)

CheckList Information

Name : FIV - HVAC DUCTWORK **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 02/20/2024 - Brianna Biggs - National TAB

CheckList Item Details

KVS - GREASE DUCT (HOOD SYSTEM)

Grease duct is sized and routed per plan Fail

Comment:

Duct not routed per plan, however airflow is at design.

Grease duct is properly supported Pass

Comment:

Grease duct has code required negative pitch from fan inlet back to the hood riser connection N/A

Comment:

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

Comment:

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

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

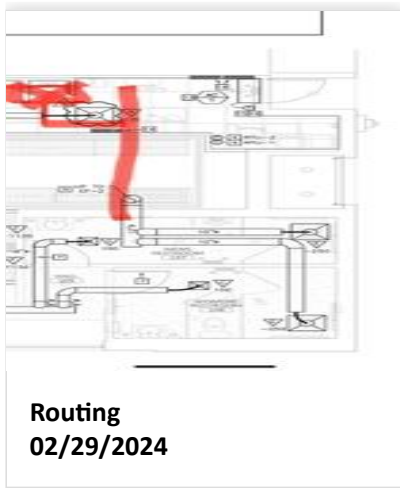
Comment:

RESTROOM DUCT

Restroom duct is routed and sized per plan

Fail

Comment:



Restroom duct is properly supported

Pass

Comment:

Duct seams are sealed

Yes

Comment:

Dampers are accessible to TAB team for balancing

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:

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:



Nodamper(1)
02/29/2024

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:

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

Comment:

Ducts are securely insulated as per specificatins and foil taped to prevent air barrier from being breached Pass

Comment:

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 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:

Takeoff to diffuser is installed securely to prevent slippage and air leakage

Pass

Comment:

All diffuser neck or opening sizes are installed as planned

Pass

Comment:

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.

Pass

Comment:



02-26-24 CAVA - CHICAGO, IL (WICKER PARK)

CheckList Information

Name : FIV - RTU'S **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 02/20/2024 - 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:

RTU - ACCESSORIES

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

Fail

Comment:



Filters
02/28/2024

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	Fail
Comment:	
Condensate drain installed per specification	N/A
Comment:	
Condensate line drains away from unit to a approved roof drain	Fail
Comment:	



Ptrap
02/28/2024

Belts are tight?

N/A

Comment:

Pulleys aligned?

N/A

Comment:

MERV rated filters are installed and are clean?

Fail

Comment:

NEED FINAL FILTERS INSTALLED



02-26-24 CAVA - CHICAGO, IL (WICKER PARK)

CheckList Information

Name : FIV – HOODS **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 02/20/2024 - Brianna Biggs - National TAB

CheckList Item Details

HOOD INSTALLATION DETAILS

Kitchen hoods tags match design and submitted information N/A

Comment:

NOTHING SUBMITTED TO MATCH

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 Pass

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 Pass

Comment:

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

Comment:

Parts of ceiling wrapper were either damaged or stolen. They are on order to replace.

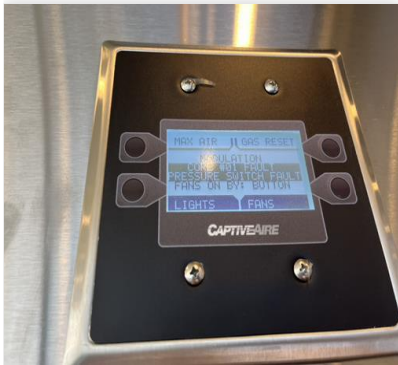


Hoodwrap
02/29/2024

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. Fail

Comment:

HMI has CORE#01 FAULT and PRESSURE SWITCH FAULT



Faults
02/29/2024

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)

Pass

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:



02-26-24 CAVA - CHICAGO, IL (WICKER PARK)

CheckList Information

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

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 02/20/2024 - Brianna Biggs - National TAB

CheckList Item Details

FINAL TESTS

HOOD CAPTURE TEST

List equipment turned on for testing

Comment:

NONE

List smoke candle type used

Comment:

45 SECOND S102 SMOKE EMITTER

Smoke test capture - Perimeter of hood (%)

Comment:

100%

Smoke test capture - Top of cooking surface (%)

Comment:

100%

WITNESS

Date test was completed

02/29/2024

Comment:

TAB tech name / Firm

Comment:

JACOB DAVIDSON

Site super name / Firm

Comment:

PAT GABEL / VEQUITY CONSTRUCTION

Owner representative name / Firm (if Applicable)

Comment:

N/A

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:

No, building is pulling in air due to many fans being used at the restaurant next door. The base building pressure with no units on is -0.07"



02-26-24 CAVA - CHICAGO, IL (WICKER PARK)

CheckList Information

Name : FPT - KEF'S **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 02/20/2024 - 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 Pass

Comment:

All motor and electrical readings are below the full load rating of each fan N/A

Comment:

UNABLE TO GET READINGS ON EF1

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? Fail

Comment:

CORE#01 FAULT AND PRESSURE SWITCH FAULT

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

Pass

Comment:

SET TO NO MODULATION



02-26-24 CAVA - CHICAGO, IL (WICKER PARK)

CheckList Information

Name : FPT - RTU's **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 02/20/2024 - 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

Fail

Comment:

NO HUMIDITY SENSOR

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.

Comment:

Temperature tests

Outside air temperature / humidity

Comment:

TEMP: 45.9 degrees F RH: 15.8%

Full cooling LAT/H

Comment:

RTU1 TEMP: 52.7 degrees F RH: 18.0% RTU2 TEMP: 52.6 degrees F RH: 14.9%

Full heating LAT/H

Comment:

RTU1 TEMP: 94.4 degrees F RH: 16.1% RTU2 TEMP: 100.3 degrees F RH: 12.5%

OUTDOOR AIR / RELIEF DAMPER

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

Pass

Comment:

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

Pass

Comment:

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

Pass

Comment:

OCCUPANCY VALIDATION

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

Pass

Comment:

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

Pass

Comment:

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

Pass

Comment:

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

Pass

Comment:



RTU1
02/29/2024

RTU-2

Comment:



RTU2(1)
02/29/2024

EF-1

Comment:



KEF1(1)
02/29/2024

EF-2

Comment:



EF2(1)
02/29/2024

MUA-1

Comment:



MAU
02/29/2024

HOOD-1

Comment:



Hood1
02/28/2024

National TAB

Project: 02-26-24 CAVA - CHICAGO, IL (WICKER PARK)



System/Unit: AHU/RTU

Asset: RTU1

AREA:

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	234813469L
Model Num	YHJ150	YHJ150A3S0H03K000A1B1
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1 METAL MESH
OA Filter Size 1	-	23.5X37.5
Num Final Filter 1	-	3
Final Filter Size 1	-	16X24X2
Num Final Filter 2	-	2
Final Filter Size 2	-	18X24X2

Motor Data		
	Design	Actual
Motor MFG	-	NA
Frame	-	NA
Horsepower	3.1	5
Motor Rpm	-	NA
Phase	3	3
Rated Voltage	208	208-230
Rated Amperage	-	11.0

Test Data		
	Design	Actual
SF CFM	5000	5089
SF RPM	-	1088
RA CFM	4200	4214
OA CFM	800	875
RL Voltage	-	209/213/213
RL Amperage	-	6.7/6.9/7.1
SF Rotation	-	CW
RA Damper Position	-	79%
Min OA Damper Position	-	21%
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.94"
Fan Suction SP	-	-1.27"
Fan Discharge SP	-	0.81"
Total ESP	1.0"	1.75"
Fan Total SP	-	2.08"

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	NO, NEED FINAL FILTERS
Condensate Drain Installed	-	YES

Completed By: Jacob Davidson on 02/28/2024

Notes:
SPEED SETPOINT: 85%

Written By: Jacob Davidson on 02/28/2024

National TAB

Project:02-26-24 CAVA - CHICAGO, IL (WICKER PARK)

AHU/RTU



Diffuser Supply (GRD)

RTU1/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	DINING	D	18X10	525	0.841	547	555	540	102.9
SGRD2	DINING	D	18X10	525	0.841	588	542	553	105.3
SGRD3	DINING	D	18X10	525	0.841	590	501	522	99.4
SGRD4	DINING	D	18X10	525	0.841	601	509	531	101.1
SGRD5	DINING	D	18X10	525	0.841	531	552	542	103.2
SGRD6	DINING	D	18X10	525	0.841	491	539	537	102.3
SGRD7	DINING	D	18X10	525	0.841	569	609	551	105.0
SGRD8	DINING	D	18X10	525	0.841	564	601	506	96.4
SGRD9	QUEUE	C	8"	150	1	88	142	149	99.3
SGRD10	QUEUE	C	8"	150	1	94	139	145	96.7
SGRD11	QUEUE	C	8"	150	1	93	145	152	101.3
SGRD12	HALL	C	8"	150	1	91	148	158	105.3
SGRD13	WOMENS RR	C	8"	100	1	86	90	101	101.0
SGRD14	MENS RR	C	8"	100	1	86	93	102	102.0
Total				5000		5019	5165	5089	101.78%

Completed By: Jacob Davidson on 02/27/2024

National TAB

Project: 02-26-24 CAVA - CHICAGO, IL (WICKER PARK)

System/Unit: AHU/RTU



Asset: RTU2

AREA:

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	234711710L
Model Num	YHJ120	YHJ120A3S0L04K0000A1B1
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1 METAL MESH
OA Filter Size 1	-	23.5X37.5
Num Final Filter 1	-	3
Final Filter Size 1	-	16X24X2
Num Final Filter 2	-	2
Final Filter Size 2	-	18X24X2

Motor Data		
	Design	Actual
Motor MFG	-	NA
Frame	-	NA
Horsepower	3.1	3
Motor Rpm	-	NA
Phase	3	3
Rated Voltage	208	208-230
Rated Amperage	-	8.8

Test Data		
	Design	Actual
SF CFM	3800	3731
SF RPM	-	891
RA CFM	3380	3282
OA CFM	420	449
RL Voltage	-	209/213/213
RL Amperage	-	4.7/8.3/8.7
SF Rotation	-	CW
RA Damper Position	-	80%
Min OA Damper Position	-	20%
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.75"
Fan Suction SP	-	-1.10"
Fan Discharge SP	-	0.65"
Total ESP	1.0"	1.85"
Fan Total SP	-	1.75"

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	NO, NEED NEW FILTERS
Condensate Drain Installed	-	YES

Completed By: Jacob Davidson on 02/29/2024

Notes:
Speed Setpoint: 73%

Written By: Jacob Davidson on 02/29/2024

National TAB

Project:02-26-24 CAVA - CHICAGO, IL (WICKER PARK)

AHU/RTU



Diffuser Supply (GRD)

RTU2/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	FRONT KITCHEN	B	10X10	350	1	278	305	316	90.3
SGRD2	FRONT KITCHEN	B	10X10	350	1	293	316	325	92.9
SGRD3	FRONT KITCHEN	B	10X10	350	1	306	325	339	96.9
SGRD4	FRONT KITCHEN	B	10X10	350	1	378	344	345	98.6
SGRD5	FRONT KITCHEN	B	10X10	350	1	370	329	332	94.9
SGRD6	FRONT KITCHEN	B	10X10	350	1	380	339	342	97.7
SGRD7	HOOD 1	ACPSP	139X6	600	4.52	705	745	645	107.5
SGRD8	FRONT KITCHEN	B	10X10	350	1	307	330	329	94.0
SGRD9	FRONT KITCHEN	B	10X10	350	1	343	389	357	102.0
SGRD10	BACK KITCHEN	A	8"	130	1	218	119	128	98.5
SGRD11	BACK KITCHEN	A	8"	135	1	154	132	134	99.3
SGRD12	BACK KITCHEN	A	8"	135	1	121	135	139	103.0
Total				3800		3853	3808	3731	98.18%

Completed By: Jacob Davidson on 02/27/2024

National TAB

Project: 02-26-24 CAVA - CHICAGO, IL (WICKER PARK)

System/Unit: FAN - Exhaust



Asset: EF1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU85HFA	DU85HFA
Serial Num	-	6283173
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	1	1
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	11.6
Service Factor	-	1

Test Data		
	Design	Actual
CFM	2381	2402
Fan RPM	1574	DD ECM
Fan Rotation	-	CCW
Motor RPM	-	DD ECM
System SetPt	-	100% ECM
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	1.0"	1.07"
Fan Inlet SP	-	-1.07"
Fan Discharge SP	-	ATM

Completed By: Jacob Davidson on 02/28/2024

National TAB

Project: 02-26-24 CAVA - CHICAGO, IL (WICKER PARK)

System/Unit: FAN - Exhaust



Asset: EF2

AREA:

Unit Data		
	Design	Actual
MFG	COOK	PENNBARRY
Model Num	90C17DH	DX11QGP
Serial Num	-	C23AY12661
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	MCMILLAN
Frame	-	NL
Horsepower	1/8	1/8
Motor Rpm	-	350-1725
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	5.2
Service Factor	-	1

Test Data		
	Design	Actual
CFM	500	648
Fan RPM	1584	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	MARKED ON DIAL
RL Voltage	-	122V
RL Amperage	-	1.97A
Total ESP	0.35"	0.29"
Fan Inlet SP	-	-0.29
Fan Discharge SP	-	ATM

Completed By: Jacob Davidson on 02/28/2024

Notes:

An extra diffuser was added to the mop sink required by the city of Chicago. Tech read the diffuser as is since it was not on the plans. Restrooms are still balanced to 250 CFM each.

Written By: Jacob Davidson on 02/29/2024

National TAB

Project:02-26-24 CAVA - CHICAGO, IL (WICKER PARK)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF2/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EF2-EGRD1	WOMENS RR	E	10"	250	1	276	249	249	99.6
EF2-EGRD2	MENS RR	E	10"	250	1	288	257	257	102.8
EF2-EGRD3	MOP SINK	C	6"		1	142	142	142	-
Total				500		706	648	648	129.6%

National TAB

Project: 02-26-24 CAVA - CHICAGO, IL (WICKER PARK)

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	-	6283173
Type	MUA	MAU
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	145T
Horsepower	2	2
Motor Rpm	-	1740
Phase	3	3
Voltage (rated)	208	230/460
Amperage (rated)	-	5.48/2.74
Service Factor	-	1.15

Gas Heat		
	Design	Actual
Heater Operates (y/n)	-	YES
Flame Status (pass/fail)	-	PASS
Inlet Air Temp SetPt	55	55
Discharge Air Temp SetPt	60	60
Air Flow Switch SP Actual	-	0.36"

Test Data		
	Design	Actual
CFM	1976	1924
SF RPM	2167	1708
Motor RPM	-	1708
SF System SetPt	-	58.9HZ
RL Voltage	-	124V VFD
RL Amperage	-	3.8A VFD
Total ESP	-	NA
Fan Discharge SP	-	NA

General		
	Design	Actual
Fan Rotation Correct	-	YES

Completed By: Jacob Davidson on 02/28/2024

National TAB

Project: 02-26-24 CAVA - CHICAGO, IL (WICKER PARK)

System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	6030 ND-2
Job / Serial Num	-	6283173
Type	-	TYPE I CANOPY
Hood length	-	127"
Hood Width	-	60"
Supply Plenum Type	-	ACPSP
Supply Plenum Width	-	14"
Supply Plenum Length	-	139"

Test Data Exhaust		
	Design	Actual
Filter Type	-	CAPTRATE SOLO
Filter Size 1	-	20X16
Filter Qty 1	-	7
Filter AK factor size 1	-	2.08
Filter Total AK Area	-	14.56
Filter1 FPM	-	164
Filter2 FPM	-	166
Filter3 FPM	-	182
Filter4 FPM	-	179
Filter5 FPM	-	168
Filter6 FPM	-	154
Filter7 FPM	-	145
Filter Ave FPM(corr)	-	165
CFM	2381	2402

Cooking Equipment		
	Design	Actual
Item 1	-	OVEN
Item 2	-	STOVETOP
Item 3	-	GRILL
Item 4	-	FRYER

Test Data Supply		
	Design	Actual
Total AK Area	-	13.51
Kv factor (Vel)	-	0.89
Num of Readings	-	10
Reading1 FPM	-	180
Reading2 FPM	-	146
Reading3 FPM	-	162
Reading4 FPM	-	168
Reading5 FPM	-	163
Reading6 FPM	-	165
Reading7 FPM	-	154
Reading8 FPM	-	153
Reading9 FPM	-	145
Reading10 FPM	-	166
Ave FPM(corr)	-	160
CFM	1976	1924

Completed By: Jacob Davidson on 02/26/2024