

Report By:

National TAB
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SUITE 4210
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Report: TAB Report
Function: Test, Adjust, & Balance
Date: 03/11/2025
Completed By: National TAB

PROJECT

03-03-25 CHIPOTLE #5042 METAIRIE, LA

6940 VETERANS MEMORIAL BLVD

METAIRIE, LA

Client

Chipotle Mexican Grill
610 Newport Center Drive, Suite 1100
Newport Beach, CA 92660

National TAB

Project: 03-03-25 CHIPOTLE #5042 METAIRIE, LA

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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.

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		3500	3670	2750	2911	750	759	21.4%	20.7%						
RTU-2		4000	4397	3250	3636	750	761	18.8%	17.3%						
MUA-1										1300	1328				
MUA-1										0					
EF-1												2550	2552		
EF-2														150	154
TOTALS		7500	8067	6000	6547	1500	1520			1300	1328	2550	2552	150	154

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	2800	2848
TOTAL EXHAUST	2700	2706
NET AIRFLOW	100	142

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H2O)
FRONT	0.012
SIDE	0.013
REAR	0.014
AVERAGE	0.013

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

- 01: RTU'S/AHU'S
- 02: EF'S
- 03: MUA
- 04: HOODS
- 05: FINAL TESTS



03-03-25 CHIPOTLE #5042 METAIRIE, LA

CheckList Information

Name : 01: RTU'S/AHU'S **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 03/04/2025 - Brianna Biggs - National TAB

Completed Date : 03/04/2025 - Oscar Ventura - National TAB

CheckList Item Details

RTU's/AHU's

Thermostats installed and have power?	Yes
---------------------------------------	-----

Comment:

All diffusers and grilles are installed and match design?	Yes
---	-----

Comment:

Deflector plates are removed from 1x1 diffusers on the serve line (double check that this is specified on the diffuser schedule first)	Yes
--	-----

Comment:

Economizer blank plate is installed below the outside air intake (Trane only) (N/A = not applicable)	N/A
--	-----

Comment:

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?

N/A

Comment:

DIRECT DRIVE UNITS.

If direct drive unit is the speed controller working?

Yes

Comment:

Is gas piping installed and valves turned on?

Yes

Comment:

Unit free of noticeable noise and vibration

Yes

Comment:

Final outside air damper position is marked with permanent marker?

Yes

Comment:



03-03-25 CHIPOTLE #5042 METAIRIE, LA

CheckList Information

Name : 02: EF'S **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 03/04/2025 - Brianna Biggs - National TAB

Completed Date : 03/04/2025 - Oscar Ventura - National TAB

CheckList Item Details

EF's

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

Comment:

Belts are tight?	N/A
-------------------------	-----

Comment:

DIRECT DRIVE

Viroguard installed on hood fan(s)?	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:



03-03-25 CHIPOTLE #5042 METAIRIE, LA

CheckList Information

Name : 03: MUA **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 03/04/2025 - Brianna Biggs - National TAB
Completed Date : 03/04/2025 - Oscar Ventura - National TAB

CheckList Item Details

MUA

Rotation is correct? Yes

Comment:

Gas piping is installed and valves are in on position? 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:



03-03-25 CHIPOTLE #5042 METAIRIE, LA

CheckList Information

Name : 04: HOODS **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 03/04/2025 - Brianna Biggs - National TAB

Completed Date : 03/04/2025 - Oscar Ventura - National TAB

CheckList Item Details

HOODS

All hood filters installed and accounted for? Yes

Comment:

Hoods are wired and have power? Yes

Comment:

Hood is free of alarms? Yes

Comment:

Hood is free of damage? Yes

Comment:

Quarter or full vertical end panels are installed if specified? Yes

Comment:



03-03-25 CHIPOTLE #5042 METAIRIE, LA

CheckList Information

Name : 05: FINAL TESTS **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 03/04/2025 - Brianna Biggs - National TAB

Completed Date : 03/04/2025 - Oscar Ventura - National TAB

CheckList Item Details

FINAL CHECKS

Is space free of drafting? Yes

Comment:

Is space comfortable in all areas? Yes

Comment:

Is the space free of ventilation noise? Yes

Comment:

List kitchen equipment turned on for testing N/A

Comment:

List smoke candle type used

Comment:

45 SEC SMOKE CANDLE

HOOD CAPTURE TEST

Smoke test capture % - Perimeter of hood

Comment:

100%

Smoke test capture % - Top of cooking surface

Comment:

100%

WITNESS

Date test was completed

03/04/2025

Comment:

TAB tech name / Firm

Comment:

OSCAR VENTURA / NTAB

Site super name / Firm

Comment:

TRAVIS RYLAS / INNOVATIVE BUILDING SOLUTIONS.

Owner representative name / Firm (if Applicable)

Comment:

NA

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)

Pass

Comment:

FRONT: 0.012 SIDE: 0.013 BACK: 0.014

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Project: 03-03-25 CHIPOTLE #5042 METAIRIE, LA

System/Unit: AHU/RTU



Asset: RTU1

AREA: KITCHEN

Unit Data		
	Design	Actual
MFG	CARRIER	CARRIER
Serial Num	-	2323P62348
Model Num	48FCFN14	48FCFN12C2M5A6W4F0
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	36X20
Num Final Filter 1	-	4
Final Filter Size 1	-	20X20X2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	NL	NL
Motor Rpm	NL	NL
Phase	3	3
Rated Voltage	208	208
Rated Amperage	NL	6.4

Drive Data	
	Actual
Motor Sheave Size	DIRECT DRIVE

Test Data		
	Design	Actual
SF CFM	3500	3670
SF RPM	NL	1420
RA CFM	2750	2911
OA CFM	750	759
RL Voltage	208	212/213/212
RL Amperage	NL	2.8/2.9/2.9
SF Rotation	-	CCW
SF System SetPt	-	6.7 VDC
RA Damper Position	-	80%
Min OA Damper Position	-	20%
Min OA Damper Type	-	OPPOSED BLADE
OA Enthalpy Setpt	-	ES5

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.41"
Fan Suction SP	-	-0.63"
Fan Discharge SP	-	0.45"
Total ESP	0.8"	0.86"
Fan Total SP	-	1.08"

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

Unit Data - PHOTO LOG



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Project:03-03-25 CHIPOTLE #5042 METAIRIE, LA

AHU/RTU



Diffuser Supply (GRD)

RTU1/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD-1	OFFICE	CD-1	6"	100	1	172	140	97	97.0
SGRD-2	BACK	CD-1	10"	300	1	375	379	316	105.3
SGRD-3	BACK	CD-1	10"	350	1	451	315	370	105.7
SGRD-4	KITCHEN	CD-2	8"	250	1	246	244	263	105.2
SGRD-5	KITCHEN	CD-2	8"	250	1	194	193	258	103.2
SGRD-6	KITCHEN	CD-2	8"	250	1	199	188	260	104.0
SGRD-7	KITCHEN	CD-2	8"	250	1	223	229	253	101.2
SGRD-8	KITCHEN	CD-1	12"	500	1	586	475	502	100.4
SGRD-9	KITCHEN	CD-1	12"	500	1	711	599	540	108.0
SGRD-10	HOOD	PSP	NL	700	5.225	1228	1097	757	108.1
SGRD-11	BATHROOM	CD-3	6"	50	1	158	123	54	108.0
Total				3500		4543	3982	3670	104.86%

Completed By: Oscar Ventura on 03/04/2025

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Project: 03-03-25 CHIPOTLE #5042 METAIRIE, LA

System/Unit: AHU/RTU



Asset: RTU2

AREA:DINING

Unit Data		
	Design	Actual
MFG	CARRIER	CARRIER
Serial Num	-	0723P72864
Model Num	48FCFN14	48FCFN14C2M5A6W4F0
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	36X20
Num Final Filter 1	-	4
Final Filter Size 1	-	20X20X2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	NL	NL
Motor Rpm	NL	NL
Phase	3	3
Rated Voltage	208	208
Rated Amperage	NL	7.5

Drive Data	
	Actual
Motor Sheave Size	DIRECT DRIVE

Test Data		
	Design	Actual
SF CFM	4400	4397
SF RPM	NL	1910
RA CFM	3650	3663
OA CFM	750	761
RL Voltage	208	112/113/113
RL Amperage	NL	7.7/7.6/7.6
SF Rotation	-	CCW
SF System SetPt	-	8.7 VDC
RA Damper Position	-	83%
Min OA Damper Position	-	17%
Min OA Damper Type	-	OPPOSED BLADE
OA Enthalpy Setpt	-	ES5

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.96"
Fan Suction SP	-	-1.42"
Fan Discharge SP	-	0.61"
Total ESP	0.8	1.57"
Fan Total SP	-	2.03"

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

Unit Data - PHOTO LOG



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Project:03-03-25 CHIPOTLE #5042 METAIRIE, LA

AHU/RTU



Diffuser Supply (GRD)

RTU2/DINING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD-1	DINNING ROOM	SR1	12"	600	1	825	731	625	104.2
SGRD-2	DINNING ROOM	SR1	12"	700	1	744	682	694	99.1
SGRD-3	DINNING ROOM	SR1	12"	700	1	786	674	706	100.9
SGRD-4	DINNING ROOM	SR1	12"	700	1	879	768	709	101.3
SGRD-5	DINNING ROOM	SR1	12"	700	1	835	752	665	95.0
SGRD-6	DINNING ROOM	SR2	18/6	500	0.63	704	629	504	100.8
SGRD-7	DINNING ROOM	SR2	18/6	500	0.63	524	481	494	98.8
Total				4400		5297	4717	4397	99.93%

Completed By: Oscar Ventura on 03/04/2025

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Project: 03-03-25 CHIPOTLE #5042 METAIRIE, LA

System/Unit: FAN - Exhaust



Asset: EF1

AREA:HOOD

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DR12HFA	DU180HFA
Serial Num	-	6614115
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	2550	2552
Fan RPM	NL	1047
Fan Rotation	-	CCW
Motor RPM	-	1047
System SetPt	-	53.7 HZ
RL Voltage	208	112 VFD
RL Amperage	NL	4.8 VFD
Total ESP	1.20"	0.78"
Fan Inlet SP	-	-0.78"
Fan Discharge SP	-	ATM

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	182/4T
Horsepower	2	2.0
Motor Rpm	NL	1170
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	6.44
Service Factor	-	1.25

Unit Data - PHOTO LOG



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Project: 03-03-25 CHIPOTLE #5042 METAIRIE, LA

System/Unit: FAN - Exhaust



Asset: EF2

AREA:RESTROOMS

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DR12HFA	DR12HFA
Serial Num	-	6614115
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	150	154
Fan RPM	NL	986
Fan Rotation	-	CCW
Motor RPM	-	986
System SetPt	-	42%
RL Voltage	208	120
RL Amperage	NL	0.7
Total ESP	0.6"	0.51"
Fan Inlet SP	-	-0.51"
Fan Discharge SP	-	ATM

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	0.18	0.25
Motor Rpm	NL	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	2.9
Service Factor	-	NL

Unit Data - PHOTO LOG



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National TAB

Project: 03-03-25 CHIPOTLE #5042 METAIRIE, LA

System/Unit: FAN - Supply



Asset: MAU1

AREA:HOOD

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	A1-D.250-15D	A1-D.250-15D
Serial Num	-	6614115
Type	MAU	MAU
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TECO
Frame	-	143T
Horsepower	1	1.0
Motor Rpm	NL	1740
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	2.30
Service Factor	-	1.0

Gas Heat		
	Design	Actual
Heater Operates (y/n)	-	YES
Flame Status (pass/fail)	-	YES
Inlet Air Temp SetPt	55	55
Discharge Air Temp SetPt	60	60
Air Flow Switch SP Actual	-	0.33"

Test Data		
	Design	Actual
CFM	1300	1328
SF RPM	NL	1392
Motor RPM	-	1392
SF System SetPt	-	48 HZ
RL Voltage	208	120 VFD
RL Amperage	NL	2.2 VFD
Total ESP	-	0.47"
Fan Discharge SP	-	ATM

General	
	Actual
Fan Rotation Correct	YES

Unit Data - PHOTO LOG



03/04/2025

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Project: 03-03-25 CHIPOTLE #5042 METAIRIE, LA

System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:KITCHEN

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 ND-2-ACPSP-F	5424 ND-2-ACPSP-F
Job / Serial Num	-	6614115
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	153"	153"
Hood Width	51"	54"
Supply Plenum Type	-	PSP
Supply Plenum Width	9"	9"
Supply Plenum Length	165"	165"

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	16X16	16X16
Filter Qty 1	-	9
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	14.58	14.58
Filter1 FPM	-	181
Filter2 FPM	-	157
Filter3 FPM	-	175
Filter4 FPM	-	184
Filter5 FPM	-	168
Filter6 FPM	-	198
Filter7 FPM	-	190
Filter8 FPM	-	178
Filter9 FPM	-	149
Filter Ave FPM(corr)	-	175
CFM	2550	2552

Cooking Equipment	
	Actual
Item 1	RANGE
Item 2	GRIDDLE
Item 3	FRYER

Test Data Supply		
	Design	Actual
Total Area	10.31	10.31
Kv factor (Vel)	0.81	0.81
Num of Readings	-	9
Reading1 FPM	-	187
Reading2 FPM	-	183
Reading3 FPM	-	169
Reading4 FPM	-	153
Reading5 FPM	-	163
Reading6 FPM	-	171
Reading7 FPM	-	128
Reading8 FPM	-	127
Reading9 FPM	-	155
Ave FPM(corr)	-	159
CFM	1300	1328

AS DETAILED IN THE ARCHITECTURAL SET, THERMOSTATIC EXPANSION VALVE, FILTER DRIER, PRESSURE CONTROL, LOW P AND SLOPE REFRIGERANT LINES PER DETAILATIONS THROUGH ROOF.
 RD 15. INSTALL THE REFRIGERANT LINE CONDENSER. IF REFRIGERANT PIPING TO A STAINLESS STEEL SHROUD AS SHOWN

TALLATION INSTRUCTIONS AND AS 'INGS.

TAILED IN THE ARCHITECTURAL AND TEM FURNISHED BY CHIPOTLE ON

M PER DETAIL 1/M700. TYPICAL. NCATOR WITH REMOTE KEY OPERATED JUNT UNIT 60" AFF. TYPICAL.

U PER DETAIL 6/M700. SEE ELECTRICAL ALL UV WARNING STICKERS ON FACE OF THROUGH WHICH THE REME HALO

TERMINATION AND OUTSIDE AIR TER COMBUSTION AIR INTAKE AND FOR MORE INFORMATION ON WATER

ON OPPOSITE SIDE OF ROOM AT NG ROOM.

