Report By:

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

Report: Inspection Report

Function: Test, Adjust, & Balance

Date: 05/06/2025

Completed By: National TAB

PROJECT

05-05-25 CHIPOTLE #5558 OWATONNA, MN

135 ALLAN AVE

OWATONNA, MN 55060

Client

Chipotle Mexican Grill

610 Newport Center Drive, Suite 1100

Newport Beach, CA 92660

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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.

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Project: 05-05-25 CHIPOTLE #5558 OWATONNA, MN

System/Unit: AHU/RTU

Asset: RTU1 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	225212607L
Model Num	YSJ102A3S0L	YSJ102A3S0L
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	37.5X24
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Horsepower	3	2.75
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	7.3

Test Data		
	Design	**Actual**
SF CFM	3400	3423
SF RPM	-	1312
RA CFM	2900	2893
OA CFM	500	530
RL Voltage	-	207/207/208
RL Amperage	-	3.1/3.2/3.2
SF Rotation	-	CORRECT
SF System SetPt	-	5.8VDC
RA Damper Position	-	MECHANICALLY LINKED
Min OA Damper Position	-	4.0 VDC LOW / 3.6 VDC HIGH
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	E

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.62"
Fan Suction SP	-	-0.92"
Fan Discharge SP	-	0.54"
Total ESP	.8"	1.16"
Fan Total SP	-	1.46"

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

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Unit Data - PHOTO LOG

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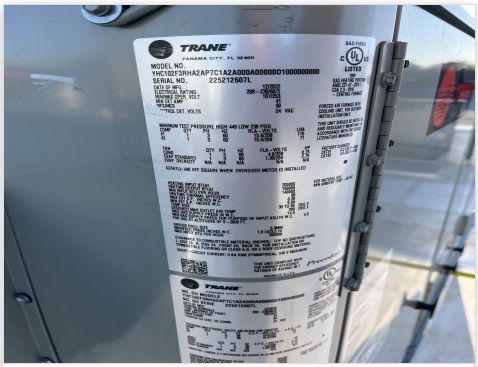

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Project: 05-05-25 CHIPOTLE #5558 OWATONNA, MN

System/Unit: AHU/RTU

Asset: RTU2 AREA:DINING

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	225110745L
Model Num	YSJ120A3S0M	YSJ120A3S0M
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	37.5X24
Num Final Filter 1	-	3
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	2
Final Filter Size 2	-	20X30X2

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Horsepower	3	2.75
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	7.3

Test Data		
	Design	**Actual**
SF CFM	4000	4045
SF RPM	-	1115
RA CFM	3000	3010
OA CFM	1000	1035
RL Voltage	-	207/208/208
RL Amperage	-	2.1/2.2/2.2
SF Rotation	-	CORRECT
SF System SetPt	-	5.1 VDC
RA Damper Position	-	MECHANICALLY LINKED
Min OA Damper Position	-	47% LOW / 27% HIGH
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	E

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.46"
Fan Suction SP	-	-0.62"
Fan Discharge SP	-	0.42"
Total ESP	.8"	0.88"
Fan Total SP	-	1.04"

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

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Unit Data - PHOTO LOG

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Project: 05-05-25 CHIPOTLE #5558 OWATONNA, MN

System/Unit: FAN - Exhaust

Asset: EF1 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU180HFA	DU180HFA
Serial Num	-	7069776
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	182T
Horsepower	2	2.0
Motor Rpm	-	1170
Phase	3	3
Voltage (rated)	208	230
Amperage (rated)	-	6.44
Service Factor	-	1.25

Test Data		
	Design	**Actual**
CFM	2550	2552
Fan RPM	-	987
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	987
System SetPt	-	50.6 HZ
RL Voltage	-	97 @ VFD
RL Amperage	-	5.1 @ VFD
Total ESP	1.45"	0.789"
Fan Inlet SP	-	-0.789"
Fan Discharge SP	-	ATM

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Unit Data - PHOTO LOG

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Project: 05-05-25 CHIPOTLE #5558 OWATONNA, MN

System/Unit: FAN - Exhaust

Asset: EF2 AREA:RESTROOM

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DR12HFA	DR12HFA
Serial Num	-	7069776
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	0.25	0.25
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	2.9
Service Factor	-	NL

Test Data		
	Design	**Actual**
CFM	150	151
Fan RPM	-	886
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	886
System SetPt	-	48%
RL Voltage	-	121
RL Amperage	-	1.2
Total ESP	.6"	0.21"
Fan Inlet SP	-	-0.21"
Fan Discharge SP	-	ATM

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Unit Data - PHOTO LOG

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FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF2/RESTROOM

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EF2-1	RR	ER1	6"	75	1.0	91	73	73	97.3
EF2-2	RR	ER1	6"	75	1.0	94	78	78	104.0
Total				150		185	151	151	100.67%

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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	-	7069776
Type	MAU	MAU
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	143T
Horsepower	1	1.0
Motor Rpm	-	1740
Phase	3	3
Voltage (rated)	208	230
Amperage (rated)	-	2.90
Service Factor	-	1.15

Gas Heat		
	Design	**Actual**
Heater Operates (y/n)	-	YES
Flame Status (pass/fail)	-	PASS
Inlet Air Temp SetPt	-	55
Discharge Air Temp SetPt	-	60
Air Flow Switch SP Actual	-	0.331"

Test Data		
	Design	**Actual**
CFM	1300	1374
SF RPM	-	1465
Motor RPM	-	1465
SF System SetPt	-	50.5 HZ
RL Voltage	-	120 @ VFD
RL Amperage	-	2.4 @ VFD
Total ESP	-	0.461"
Fan Discharge SP	-	0.461"

General	
	Actual
Fan Rotation Correct	YES

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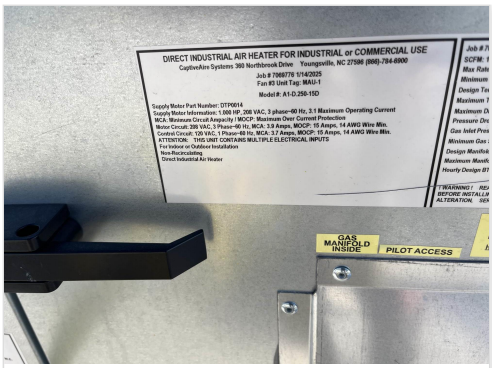
Unit Data - PHOTO LOG



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Project: 05-05-25 CHIPOTLE #5558 OWATONNA, MN

System/Unit: Kitchen Hood Type I

Asset: HD1 AREA:COOK LINE

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 ND-2-ACPSP-F	5424 ND-2-ACPSP-F
Job / Serial Num	-	7069776
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	153"	153"
Hood Width	54"	54"
Supply Plenum Type	-	ACPSP
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	9
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	14.58	14.58
Filter1 FPM	-	166
Filter2 FPM	-	171
Filter3 FPM	-	178
Filter4 FPM	-	183
Filter5 FPM	-	194
Filter6 FPM	-	187
Filter7 FPM	-	170
Filter8 FPM	-	164
Filter9 FPM	-	162
Filter Ave FPM(corr)	-	175
CFM	2550	2552

Cooking Equipment	
	Actual
Item 1	PLANCHA
Item 2	STOVE
Item 3	RICE COOKER
Item 4	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	-	174
Reading2 FPM	-	117
Reading3 FPM	-	195
Reading4 FPM	-	193
Reading5 FPM	-	192
Reading6 FPM	-	168
Reading7 FPM	-	164
Reading8 FPM	-	146
Reading9 FPM	-	132
Ave FPM(corr)	-	133.29
CFM	1300	1374

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Unit Data - PHOTO LOG

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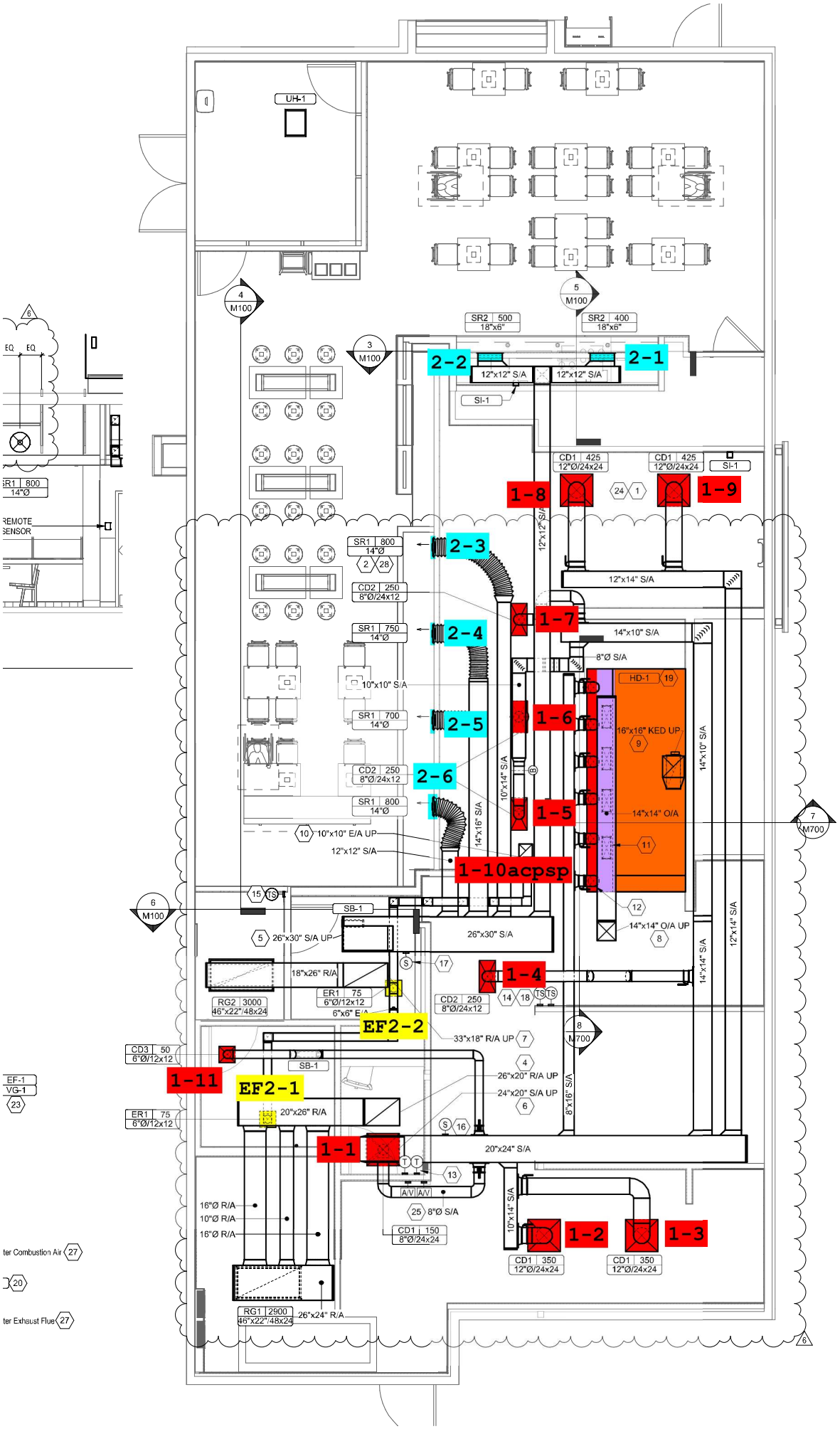

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