

Report By:

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Report: PRELIM

Function: Test, Adjust, & Balance

Date: 08/04/2025

Completed By: National TAB

PROJECT

08-04-25 CHIPOTLE #5250 WASUSAU, WI

225407 RIB MOUNTAIN DR

WAUSAU, WI 54401

Client

Chipotle Mexican Grill

610 Newport Center Drive, Suite 1100

Newport Beach, CA 92660

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Project: 08-04-25 CHIPOTLE #5250 WASUSAU, WI

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Project: 08-04-25 CHIPOTLE #5250 WASUSAU, WI

System/Unit: AHU/RTU



Asset: RTU1

AREA: KITCHEN

Unit Data		
	Design	Actual
MFG	CARRIER	CARRIER
Serial Num	-	0424P63051
Model Num	48FC-M12	48FCFN12D3
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	35X19.5
Num Final Filter 1	-	4
Final Filter Size 1	-	20X20X2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	12.6

Test Data		
	Design	Actual
SF CFM	3500	3538
SF RPM	-	1767
RA CFM	3000	3017
OA CFM	500	521
RL Voltage	-	213/213/213
RL Amperage	-	4.8/5.0/4.8
SF Rotation	-	CORRECT
SF System SetPt	-	7.65 VDC
RA Damper Position	-	MECHANICALLY LINKED
Min OA Damper Position	-	3.20VDC (15%)
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	ES5

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.82"
Fan Suction SP	-	-1.12"
Fan Discharge SP	-	0.43"
Total ESP	.80"	1.25"
Fan Total SP	-	1.55"

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

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Project:08-04-25 CHIPOTLE #5250 WASUSAU, WI

AHU/RTU



Diffuser Supply (GRD)

RTU1/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	KITCHEN	CD1	12"	375	1.0	353	380	380	101.3
SGRD2	KITCHEN	CD1	12"	375	1.0	349	387	387	103.2
SGRD3	KITCHEN	CD1	8	150	1.0	256	149	149	99.3
SGRD4	KITCHEN	CD3	8"	250	1.0	274	239	239	95.6
SGRD5	KITCHEN	CD3	8"	250	1.0	193	228	228	91.2
SGRD6	KITCHEN	CD3	8"	250	1.0	231	248	248	99.2
SGRD7	KITCHEN	CD3	8"	250	1.0	235	245	245	98.0
SGRD8	KITCHEN	CD3	14"	450	1.0	288	437	437	97.1
SGRD9	KITCHEN	CD3	14"	450	1.0	484	476	476	105.8
SGRD10	HOOD AC	ACPSP	165X6	700	5.23	1040	749	749	107.0
Total				3500		3703	3538	3538	101.09%

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Project: 08-04-25 CHIPOTLE #5250 WASUSAU, WI

System/Unit: AHU/RTU



Asset: RTU2

AREA:DINING

Unit Data		
	Design	Actual
MFG	CARRIER	CARRIER
Serial Num	-	0524P63466
Model Num	48FC-M12	48FCFN12D3
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	35X19.5
Num Final Filter 1	-	4
Final Filter Size 1	-	20X20X2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	12.6

Test Data		
	Design	Actual
SF CFM	4000	4146
SF RPM	-	1686
RA CFM	3000	3080
OA CFM	1000	1066
RL Voltage	-	213/213/213
RL Amperage	-	4.3/4.5/4.5
SF Rotation	-	CORRECT
SF System SetPt	-	7.1 VDC
RA Damper Position	-	MECHANICALLY LINKED
Min OA Damper Position	-	5.15VDC (39%)
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	ES5

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.74"
Fan Suction SP	-	-1.06"
Fan Discharge SP	-	0.42"
Total ESP	.80"	1.16"
Fan Total SP	-	1.48"

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

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Project:08-04-25 CHIPOTLE #5250 WASUSAU, WI

AHU/RTU



Diffuser Supply (GRD)

RTU2/DINING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	DINING	CD4	6"	50	1.0	54	55	55	110.0
SGRD2	DINING	SR1	14"	450	1.07	598	444	444	98.7
SGRD3	DINING	SR1	14"	500	1.07	653	514	514	102.8
SGRD4	DINING	SR1	14"	600	1.07	649	624	624	104.0
SGRD5	DINING	SR1	14"	700	1.07	727	726	726	103.7
SGRD6	DINING	SR1	14"	800	1.07	717	817	817	102.1
SGRD7	DINING	SR2	18"	500	0.65	458	529	529	105.8
SGRD8	DINING	SR2	18"	400	0.65	505	437	437	109.3
Total				4000		4361	4146	4146	103.65%

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Project: 08-04-25 CHIPOTLE #5250 WASUSAU, WI

System/Unit: FAN - Exhaust



Asset: EF1

AREA:HOOD FAN

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU180HFA	DU180HFA
Serial Num	-	6820702
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	184T
Horsepower	2	2.0
Motor Rpm	-	1170
Phase	3	3
Voltage (rated)	208	230
Amperage (rated)	-	6.0
Service Factor	-	1.15

Test Data		
	Design	Actual
CFM	2550	2561
Fan RPM	-	1026
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	1026
System SetPt	-	52.6 HZ
RL Voltage	-	105 @ VFD
RL Amperage	-	4.9 @ VFD
Total ESP	1.450"	0.96"
Fan Inlet SP	-	-0.96"
Fan Discharge SP	-	ATM

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Project: 08-04-25 CHIPOTLE #5250 WASUSAU, WI

System/Unit: FAN - Exhaust



Asset: EF2

AREA:RESTROOMS

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DR12HFA	DR12HFA
Serial Num	-	6820702
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Horsepower	.250	0.250
Motor Rpm	1304	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	2.9
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	150	158
Fan RPM	-	1053
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	1053
System SetPt	-	54%
RL Voltage	-	118
RL Amperage	-	0.60
Total ESP	.60"	0.26"
Fan Inlet SP	-	-0.26"
Fan Discharge SP	-	ATM

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Project:08-04-25 CHIPOTLE #5250 WASUSAU, WI

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF2/RESTROOMS

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	RESTROOM	ER1	6"	75	1.0	48	111	76	101.3
EGRD2	RESTROOM	ER1	6"	75	1.0	56	119	82	109.3
Total				150		104	230	158	105.33%

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Project: 08-04-25 CHIPOTLE #5250 WASUSAU, WI

System/Unit: FAN - Supply



Asset: MUA1

AREA:HOOD MUA

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	A1-D.250-15D	A1-D.250-15D
Serial Num	-	6820702
Type	MUA	MUA
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	-	0.34"

Test Data		
	Design	Actual
CFM	1300	1349
SF RPM	-	1291
Motor RPM	-	1291
SF System SetPt	-	44.5 HZ
RL Voltage	-	100@ VFD
RL Amperage	-	2.1C@ VFD
Total ESP	-	0.42"
Fan Discharge SP	-	0.42"

General	
	Actual
Fan Rotation Correct	YES

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Project: 08-04-25 CHIPOTLE #5250 WASUSAU, WI

System/Unit: Kitchen Hood Type I



Asset: HD1

AREA: KITCHEN HOOD

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 ND-2-ACPSP-F	5424 ND-2-ACPSP-F
Job / Serial Num	-	6820702
Type	TYPE I - CANOPY	TYPE I - CANOPY
Hood length	153"	153"
Hood Width	54"	54"
Supply Plenum Type	-	ACPSP
Supply Plenum Width	-	9"
Supply Plenum Length	-	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	-	174
Filter2 FPM	-	166
Filter3 FPM	-	201
Filter4 FPM	-	195
Filter5 FPM	-	187
Filter6 FPM	-	161
Filter7 FPM	-	167
Filter8 FPM	-	163
Filter Ave FPM(corr)	-	175.67
CFM	2550	2561

Cooking Equipment	
	Actual
Item 1	FRYER
Item 2	RICE COOKER
Item 3	STOVE
Item 4	PLANCHA

Test Data Supply		
	Design	Actual
Total Area	10.31	10.31
Kv factor (Vel)	0.81	0.81
Num of Readings	-	9
Reading1 FPM	-	162
Reading2 FPM	-	167
Reading3 FPM	-	146
Reading4 FPM	-	123
Reading5 FPM	-	158
Reading6 FPM	-	149
Reading7 FPM	-	147
Reading8 FPM	-	190
Reading9 FPM	-	212
Ave FPM(corr)	-	130.86
CFM	1300	1349

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