

Report By:

National TAB



Report: TAB Report

Function: Test, Adjust, & Balance

Date: 07/08/2025

Completed By: National TAB

PROJECT

07-07-25 CHIPOTLE #4722 SPRINGDALE, AR

5761 W. SUNSET AVE

SPRINGDALE, AR 72762

Client

Chipotle Mexican Grill

610 Newport Center Drive, Suite 1100

Newport Beach, CA 92660

National TAB

Project: 07-07-25 CHIPOTLE #4722 SPRINGDALE, AR

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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

- RTU-1 Undersized unit.



07-07-25 CHIPOTLE #4722 SPRINGDALE, AR

Project Issue Information

Issue Name : RTU-1 Undersized unit.
Description : RTU-1 is undersized, design unit is a 10 ton model 48FCDM12, actual installed unit is a 7.5 ton model 48FCDM08. Unit is not rated to meet 4000 CFM; Unit balanced proportionally to the units capabilities (3000CFM 75% of design) with exception of office diffuser (1-1) which was balanced at design due to the small nature of the space served.

Created By :	National TAB	Assigned To :	National TAB - Dan Hertenstein
Status :	Open		
Priority :	Urgent	Asset Tag :	RTU1
Originated Date :	07/07/2025 - Cody Collett - National TAB		

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	4000	3059	3250	2446	750	613	18.8%	20.0%						
RTU-2	DINING	4000	4136	3250	3425	750	711	18.8%	17.2%						
EF-1	COOK LINE											2550	2464		
EF-2	BATHROOM													150	159
MAU-1	HOOD									1300	1386				
TOTALS		8000	7195	6500	5871	1500	1324			1300	1386	2550	2464	150	159

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	2800	2710
TOTAL EXHAUST	2700	2623
NET AIRFLOW	100	87

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H2O)
FRONT	-0.007
SIDE	-0.012
REAR	-0.007
AVERAGE	-0.0087

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:

Building pressure readings affected by severe wind at the time of testing. Building pressure is neutral negative within tolerances.

CheckList List

- 01: RTU'S/AHU'S
- 02: EF'S
- 03:MAU
- 04:Hoods
- 05: Final Tests



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CheckList Information

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

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 06/23/2025 - Kyle Henry - National TAB

Completed Date : 07/08/2025 - Cody Collett - 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) N/A

Comment:

Not specified to remove them on diffuser schedule.

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? N/A

Comment:

Free cooling enthalpy set point set for lowest setting (Typically "D")

Yes

Comment:

ESS

Motors are all operating below the FLA rating?

Yes

Comment:

Are belts tight?

N/A

Comment:

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?

No

Comment:



07-07-25 CHIPOTLE #4722 SPRINGDALE, AR

CheckList Information

Name : 02: EF'S **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 06/23/2025 - Kyle Henry - National TAB
Completed Date : 07/07/2025 - Cody Collett - National TAB

CheckList Item Details

EF's

Rotation is correct? Yes

Comment:

Belts are tight? N/A

Comment:

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:



07-07-25 CHIPOTLE #4722 SPRINGDALE, AR

CheckList Information

Name : 03:MAU **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 06/23/2025 - Kyle Henry - National TAB

Completed Date : 07/07/2025 - Cody Collett - 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:



07-07-25 CHIPOTLE #4722 SPRINGDALE, AR

CheckList Information

Name : 04:Hoods **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 06/23/2025 - Kyle Henry - National TAB

Completed Date : 07/07/2025 - Cody Collett - 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:



07-07-25 CHIPOTLE #4722 SPRINGDALE, AR

CheckList Information

Name : 05: Final Tests **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 06/23/2025 - Kyle Henry - National TAB

Completed Date : 07/08/2025 - Cody Collett - 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 Yes

Comment:

Griddle and Range.

List smoke candle type used

Comment:

45 second 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

07/08/2025

Comment:

TAB tech name / Firm

Comment:

Cody Collett / NTI

Site super name / Firm

Comment:

Matthew Briley / TMG Construction Management

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)

Fail

Comment:

Building pressure does not coincide with airflow. (87 CFM net positive). Building pressure readings affected by severe wind at the time of testing. Building pressure is neutral negative within tolerances.

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Project: 07-07-25 CHIPOTLE #4722 SPRINGDALE, AR

System/Unit: AHU/RTU



Asset: RTU1

AREA:KITCHEN

Unit Data		
	Design	Actual
MFG	CARRIER	CARRIER
Serial Num	-	1423P77006
Model Num	48FCDM12	48FCDM08
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	35x19
Num Final Filter 1	-	4
Final Filter Size 1	-	20x16x2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	3	NL
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	208/230
Rated Amperage	-	7.5

Drive Data	
	Actual
Motor Sheave Size	DD

Test Data		
	Design	Actual
SF CFM	4000	3059
RA CFM	3250	2446
OA CFM	750	613
RL Voltage	208	215/214/216
RL Amperage	-	3.4/3.6/3.5
SF Rotation	-	CCW
SF System SetPt	-	Speed B 6.8 VDC
RA Damper Position	-	87%
Min OA Damper Position	-	3.5V
Min OA Damper Type	-	Motorized
OA Enthalpy Setpt	-	ES5

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.62"
Fan Suction SP	-	-0.94"
Fan Discharge SP	-	0.47"
Total ESP	.8"	1.09"
Fan Total SP	-	1.41

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

Completed By: Cody Collett on 07/08/2025

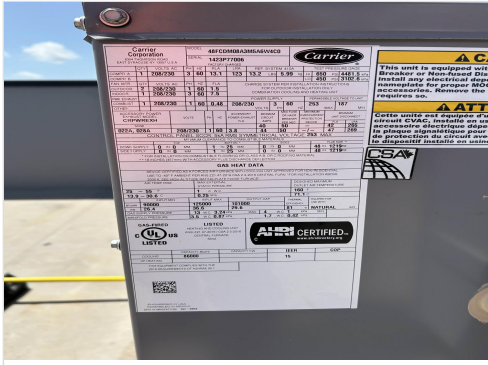
Notes:

Unit undersized (explained further in issues.). Unit balanced proportionally at 75% of design with exception of office (Diffuser 1-1) was balanced at design due to room size.

Construction grade filters installed.

Written By: Cody Collett on 07/08/2025

Unit Data - PHOTO LOG



07/08/2025



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Project:07-07-25 CHIPOTLE #4722 SPRINGDALE, AR

AHU/RTU



Diffuser Supply (GRD)

RTU1/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
RTU1-SGRD1	BACK	CD1	8"	150	1	123	95	163	108.7
RTU1-SGRD2	BACK	CD1	10"	300	1	292	223	247	82.3
RTU1-SGRD3	BACK	CD1	10"	300	1	143	108	210	70.0
RTU1-SGRD4	KITCHEN	CD1	10"	350	1	457	345	286	81.7
RTU1-SGRD5	KITCHEN	CD1	10"	350	1	485	362	240	68.6
RTU1-SGRD6	KITCHEN	CD1	10"	350	1	229	164	269	76.9
RTU1-SGRD7	KITCHEN	CD1	10"	350	1	316	244	287	82.0
RTU1-SGRD8	KITCHEN	CD1	10"	350	1	397	300	269	76.9
RTU1-SGRD9	KITCHEN	CD1	10"	350	1	457	348	282	80.6
RTU1-SGRD10	KITCHEN	CD1	10"	350	1	422	320	237	67.7
RTU1-SGRD11	HOOD	ACPSP	165x6	700	5.3625	884	681	569	81.3
Total				3900		4205	3190	3059	78.44%

Completed By: Cody Collett on 07/07/2025

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Project: 07-07-25 CHIPOTLE #4722 SPRINGDALE, AR

System/Unit: AHU/RTU



Asset: RTU2

AREA:DINING

Unit Data		
	Design	Actual
MFG	CARRIER	CARRIER
Serial Num	-	3923P72149
Model Num	48FCDM12	48FCDM12
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	35X19
Num Final Filter 1	-	4
Final Filter Size 1	-	20x20x2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	3	3
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	208/230
Rated Amperage	-	12.6

Drive Data	
	Actual
Motor Sheave Size	DD

Test Data		
	Design	Actual
SF CFM	4000	4136
RA CFM	3250	3425
OA CFM	750	711
RL Voltage	-	215/218/216
RL Amperage	-	7.4
SF Rotation	-	CCW
SF System SetPt	-	Speed C 8.68VDC
RA Damper Position	-	88%
Min OA Damper Position	-	3.5V
Min OA Damper Type	-	Motorized
OA Enthalpy Setpt	-	ES5

Performance Data		
	Design	Actual
MA Plenum SP	-	-1.18"
Fan Suction SP	-	-1.60"
Fan Discharge SP	-	0.47"
Total ESP	.8"	1.65"
Fan Total SP	-	2.07"

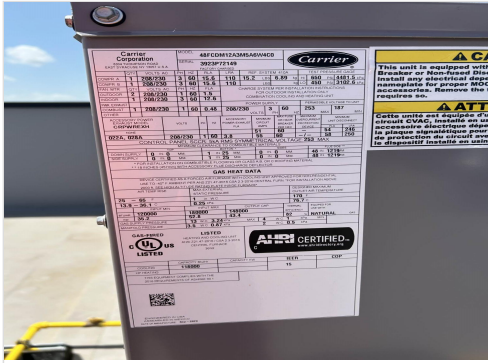
General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	YES
Condensate Drain Installed	YES

Completed By: Cody Collett on 07/08/2025

Notes:
Construction grade filters installed.

Written By: Cody Collett on 07/08/2025

Unit Data - PHOTO LOG



National TAB

Project:07-07-25 CHIPOTLE #4722 SPRINGDALE, AR

AHU/RTU



Diffuser Supply (GRD)

RTU2/DINING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
RTU2-SGRD1	DINING	SR2	6"	400	0.993	446	446	436	109.0
RTU2-SGRD2	DINING	SR2	6"	500	0.993	356	356	538	107.6
RTU2-SGRD3	DINING	SR1	14"	800	0.993	902	902	829	103.6
RTU2-SGRD4	DINING	SR1	14"	700	0.993	795	795	700	100.0
RTU2-SGRD5	DINING	SR1	14"	600	0.993	796	796	606	101.0
RTU2-SGRD6	DINING	SR1	14"	500	0.630	615	615	499	99.8
RTU2-SGRD7	DINING	SR1	14"	500	0.630	459	459	528	105.6
Total				4000		4369	4369	4136	103.4%

Completed By: Cody Collett on 07/08/2025

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Project: 07-07-25 CHIPOTLE #4722 SPRINGDALE, AR

System/Unit: FAN - Exhaust



Asset: EF1

AREA: KITCHEN

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU180HFA	DU180HFA
Serial Num	-	6104716
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	184T
Horsepower	2	2
Motor Rpm	-	1165
Phase	3	3
Voltage (rated)	208	230/460
Amperage (rated)	-	7.51/3.76
Service Factor	-	1.15

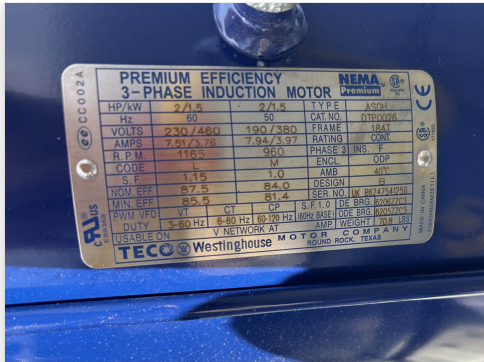
Test Data		
	Design	Actual
CFM	2550	2464
Fan RPM	-	1110
Fan Rotation	-	CCW
Motor RPM	-	1110
System SetPt	-	52.7HZ
RL Voltage	-	103/103/103
RL Amperage	-	5.0/5.0/5.1
Total ESP	1.2"	0.87"
Fan Inlet SP	-	-0.87"
Fan Discharge SP	-	ATM

Completed By: Cody Collett on 07/08/2025

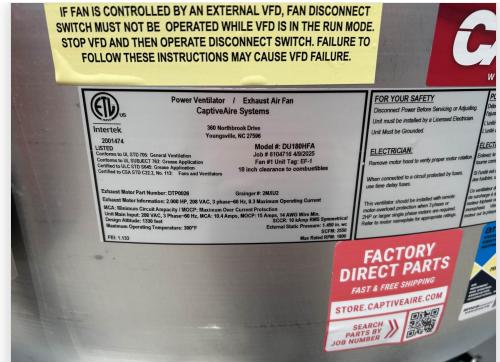
Unit Data - PHOTO LOG



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Project: 07-07-25 CHIPOTLE #4722 SPRINGDALE, AR

System/Unit: FAN - Exhaust



Asset: EF2

AREA:RESTROOMS

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DR12HFA	DR12HFA
Serial Num	-	6104716
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	150	159
Fan RPM	-	828
Fan Rotation	-	CCW
Motor RPM	-	828
System SetPt	-	46%
RL Voltage	-	118
RL Amperage	-	0.35
Total ESP	.6"	0.17"
Fan Inlet SP	-	-0.17"
Fan Discharge SP	-	ATM

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	.18	0.25
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	2.9
Service Factor	-	NL

Completed By: Cody Collett on 07/08/2025

Unit Data - PHOTO LOG



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Project:07-07-25 CHIPOTLE #4722 SPRINGDALE, AR

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF2/RESTROOMS

Asset												
Asset Name	Model Num	MFG	Type	Size	DESIGN CFM	AK	VEL(1)	CFM(1)	VEL(2)	CFM(2)	FINAL CFM	% to design
EF2-1	NA	NA	ER1	6/6	75	0.594	129	77	129	77	77	102.7
EF2-2	NA	NA	ER1	6/6	75	0.594	138	82	138	82	82	109.3
Total					150			159		159	159	106%

Completed By: Cody Collett on 07/07/2025

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Project: 07-07-25 CHIPOTLE #4722 SPRINGDALE, AR

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	-	6104716
Type	MAU	MUA
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	143T
Horsepower	1	1
Motor Rpm	-	1740
Phase	3	3
Voltage (rated)	208	230/460
Amperage (rated)	-	2.9/1.45
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	-	65
Air Flow Switch SP Actual	-	0.347"

Test Data		
	Design	Actual
CFM	1300	1386
SF RPM	-	1380
Motor RPM	-	1380
SF System SetPt	-	47.6HZ
RL Voltage	208	112/112/112
RL Amperage	-	2.2/2.2/2.3

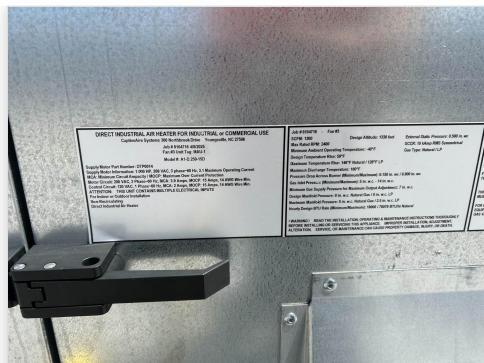
General	
	Actual
Fan Rotation Correct	YES

Completed By: Cody Collett on 07/08/2025

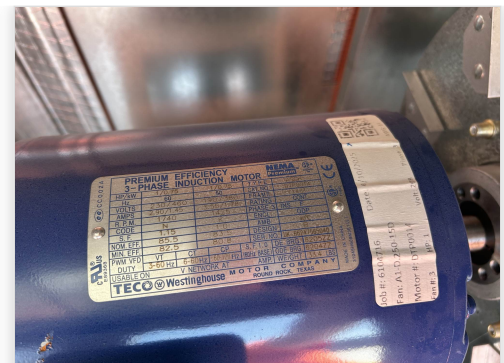
Unit Data - PHOTO LOG



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Project: 07-07-25 CHIPOTLE #4722 SPRINGDALE, AR

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	-	6104716
Type	TYPE 1 CANOPY	TYPE 1 CANOPY
Hood length	153"	153"
Hood Width	51"	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	-	155
Filter2 FPM	-	163
Filter3 FPM	-	170
Filter4 FPM	-	196
Filter5 FPM	-	196
Filter6 FPM	-	188
Filter7 FPM	-	170
Filter8 FPM	-	148
Filter9 FPM	-	141
Filter Ave FPM(corr)	-	169
CFM	2550	2464

Cooking Equipment	
	Actual
Item 1	Fryer
Item 2	Rice Cooker
Item 3	Gas Range
Item 4	Gas Griddle

Test Data Supply		
	Design	Actual
Total Area	10.312	10.312
Kv factor (Vel)	0.81	0.81
Num of Readings	-	9
Reading1 FPM	-	227
Reading2 FPM	-	171
Reading3 FPM	-	192
Reading4 FPM	-	176
Reading5 FPM	-	122
Reading6 FPM	-	173
Reading7 FPM	-	159
Reading8 FPM	-	110
Reading9 FPM	-	165
Ave FPM(corr)	-	166
CFM	1300	1386

Completed By: Cody Collett on 07/07/2025

Unit Data - PHOTO LOG



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