

National TAB

Project: 05-22-23 CHIPOTLE # 42-4431 CIBOLO, TX (CIBOLO)

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU-1

AREA:KITCHEN

Unit Data		
	Design	Actual
MFG	LENNOX	CARRIER
Serial Num	-	0323P71386
Model Num	LGH120H	48FCFN12C2M5A6W4F0
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL DISCHARGE
Num OA Filters 1	-	1
OA Filter Size 1	-	20x36x1
Num Final Filter 1	-	4
Final Filter Size 1	-	20x20x2

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

Drive Data		
	Design	Actual

Test Data		
	Design	Actual
SF CFM	3500	3583
SF RPM	-	1707
RA CFM	2900	3065
OA CFM	500	518
RL Voltage	-	210/211/211
RL Amperage	-	4.4/4.2/4.3
SF Rotation	-	CCW
RA Damper Position	-	77%
Min OA Damper Position	-	3.90 VDC (23%)
Min OA Damper Type	-	OPPOSED BLADE

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.55"
Fan Suction SP	-	-0.81"
Fan Discharge SP	-	0.52"
Total ESP	0.8"	1.07"
Fan Total SP	-	1.33"

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

Completed By: Damian Binkowski on

Notes: FAN SPEED SET POINT 8.0 VDC. UNIT SCHEDULED FOR 3400 CFM. GRILLES ADD TO 3500 CFM. BALANCED UNIT ACCORDING TO GRILLES.

Date: 05/23/2023

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Project:05-22-23 CHIPOTLE # 42-4431 CIBOLO, TX (CIBOLO)

AHU/RTU



Comfort. Under control.

Diffuser Supply (GRD)

RTU-1/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	OFFICE	CD1	8"	150	1.0	244	228	144	96.0
SGRD2	BOH	CD1	12"	375	1.0	425	409	385	102.7
SGRD3	BOH	CD1	12"	375	1.0	416	388	390	104.0
SGRD4	FOOD PREP	CD1	12"	400	1.0	410	379	430	107.5
SGRD5	FOOD PREP	CD1	12"	400	1.0	345	326	415	103.8
SGRD6	SERVICE LINE	CD2	8"	250	1.0	219	201	252	100.8
SGRD7	SERVICE LINE	CD2	8"	250	1.0	215	200	247	98.8
SGRD8	SERVICE LINE	CD2	8"	250	1.0	186	174	243	97.2
SGRD9	SERVICE LINE	CD2	8"	250	1.0	210	198	258	103.2
SGRD10	HOOD1	ACPSP	183"X6"	800	5.95	1160	1136	819	102.4

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Project: 05-22-23 CHIPOTLE # 42-4431 CIBOLO, TX (CIBOLO)

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU-2

AREA:DINING

Unit Data		
	Design	Actual
MFG	LENNOX	CARRIER
Serial Num	-	0323P71387
Model Num	LGH150H	48FCFN12C2M5A6W4J0
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL DISCHARGE
Num OA Filters 1	-	1
OA Filter Size 1	-	20x36x1
Num Final Filter 1	-	4
Final Filter Size 1	-	20x20x2

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

Drive Data		
	Design	Actual

Test Data		
	Design	Actual
SF CFM	4000	4039
SF RPM	-	2004
RA CFM	3000	2985
OA CFM	1000	1054
RL Voltage	-	209/208/207
RL Amperage	-	6.3/6.2/6.2
SF Rotation	-	CCW
RA Damper Position	-	69%
Min OA Damper Position	-	4.50 VDC (31%)
Min OA Damper Type	-	OPPOSED BLADE

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.67"
Fan Suction SP	-	-0.92"
Fan Discharge SP	-	0.55"
Total ESP	0.8"	1.22"
Fan Total SP	-	1.47"

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

Completed By: Damian Binkowski on

Notes: FAN SPEED SET POINT 9.7 VDC. M SHEETS SHOW RTU-2 TO BE 12.5 TON. ACTUAL 10.0 TON. GRILLES PROPORTIONALLY REDUCED TO MEET 4000 CFM DESIGN FOR 10.0 TON UNIT.

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Project:05-22-23 CHIPOTLE # 42-4431 CIBOLO, TX (CIBOLO)

AHU/RTU



Comfort. Under control.

Diffuser Supply (GRD)

RTU-2/DINING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	DINING	SR2	18"X6"	515	1.0	369	375	493	95.7
SGRD2	DINING	SR2	18"X6"	515	1.0	321	355	471	91.5
SGRD3	DINING	SR1	14"	710	1.0	726	789	727	102.4
SGRD4	DINING	SR1	14"	715	1.0	746	800	743	103.9
SGRD5	DINING	SR1	14"	715	1.0	669	722	725	101.4
SGRD6	DINING	SR1	14"	415	1.0	604	645	447	107.7
SGRD7	DINING	SR1	14"	415	1.0	472	505	433	104.3

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Project: 05-22-23 CHIPOTLE # 42-4431 CIBOLO, TX (CIBOLO)

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-1

AREA:HD-1 - COOKLINE

Unit Data		
	Design	Actual
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	DU240HFA	DU240HFA
Serial Num	-	5398089
Type	CENTRIFUGAL	CENTRIFUGAL
Configuration	UPBLAST	UPBLAST

Motor Data		
	Design	Actual
Motor MFG	-	TECO
Frame	-	213T
Horsepower	3.0	3.0
Motor Rpm	-	1175
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	10.2
Service Factor	-	1.15

Test Data		
	Design	Actual
CFM	3200	3272
Fan RPM	782	721
Fan Rotation	-	CCW
Motor RPM	-	721
System SetPt	-	36.8 Hz
RL Voltage	-	116
RL Amperage	-	5.6
Total ESP	1.200"	1.03"
Fan Inlet SP	-	-1.03"
Fan Discharge SP	-	ATM

Completed By: Wesley John on 05/23/2023

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Project: 05-22-23 CHIPOTLE # 42-4431 CIBOLO, TX (CIBOLO)

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-2

AREA:RR

Unit Data		
	Design	Actual
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	DR12HFA	DR12HFA
Serial Num	-	5398089
Type	CENTRIFUGAL	CENTRIFUGAL
Configuration	DOWNBLAST	DOWNBLAST

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

Test Data		
	Design	Actual
CFM	150	144
Fan RPM	1293	794
Fan Rotation	-	CCW
Motor RPM	-	794
System SetPt	-	45%
RL Voltage	-	120
RL Amperage	-	0.43
Total ESP	0.600"	0.21"
Fan Inlet SP	-	-0.21"
Fan Discharge SP	-	ATM

Completed By: Wesley John on 05/23/2023

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Project:05-22-23 CHIPOTLE # 42-4431 CIBOLO, TX (CIBOLO)

FAN - Exhaust



Comfort. Under control.

Diffuser Ret/Exh (GRD)

EF-2/RR

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	RR	ER1	6"X6"	75	1.0	158	71	71	94.7
EGRD2	RR	ER1	6"X6"	75	1.0	159	73	73	97.3

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Project: 05-22-23 CHIPOTLE # 42-4431 CIBOLO, TX (CIBOLO)

System/Unit: FAN - Supply



Comfort. Under control.

Asset: MUA-1

AREA:HD-1 - COOKLINE

Unit Data		
	Design	Actual
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	A1-D.250-15D	A1-D.250-15D
Serial Num	-	5398089
Type	MUA	MUA
Configuration	VERTICAL	VERTICAL DISCHARGE

Motor Data		
	Design	Actual
Motor MFG	-	TECO
Frame	-	145T
Horsepower	2.0	2.0
Motor Rpm	-	1740
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	6.06
Service Factor	-	1.15

Drive Data		
	Design	Actual

Gas Heat		
	Design	Actual
Heater Operates (y/n)	-	NO
Flame Status (pass/fail)	-	N/A
Inlet Air Temp SetPt	55	55
Discharge Air Temp SetPt	60	60
Air Flow Switch SP Actual	-	0.34"

Test Data		
	Design	Actual
CFM	1950	1911
SF RPM	2050	2050
Motor RPM	-	2050
RL Voltage	-	162
RL Amperage	-	5.4
Total ESP	-	0.57"
Fan Discharge SP	-	0.57"

General		
	Design	Actual
Fan Rotation Correct	-	YES

Completed By: Damian Binkowski on

Notes: FAN SPEED SET POINT 70.7 Hz. GAS HEAT NOT SET UP. FLAME NOT TESTED.

Date: 05/23/2023

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Project: 05-22-23 CHIPOTLE # 42-4431 CIBOLO, TX (CIBOLO)

System/Unit: Kitchen Hood Type I



Comfort. Under control.

Asset: HD-1

AREA:COOKLINE

Unit Data		
	Design	Actual
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	5424 ND-2-ACPSP-F	5424 ND-2-ACPSP-F
Job / Serial Num	-	5398089
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	171"	171"
Hood Width	54"	54"
Supply Plenum Type	-	ACPSP
Supply Plenum Width	12"	12"
Supply Plenum Length	183"	183"

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	16x16	16x16
Filter Qty 1	10	10
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	16.2	16.2
Filter1 FPM	-	216
Filter2 FPM	-	222
Filter3 FPM	-	206
Filter4 FPM	-	212
Filter5 FPM	-	200
Filter6 FPM	-	188
Filter7 FPM	-	203
Filter8 FPM	-	193
Filter9 FPM	-	188
Filter10 FPM	-	196
Filter Ave FPM(corr)	-	202
CFM	3200	3272

Cooking Equipment		
	Design	Actual
Item 1	-	GRIDDLE
Item 2	-	RANGE
Item 3	-	RICE COOKER
Item 4	-	FRYER

Test Data Supply		
	Design	Actual
Total AK Area	15.25	15.25
Kv factor (Vel)	0.87	0.87
Num of Readings	-	15
Reading1 FPM	-	148
Reading2 FPM	-	132
Reading3 FPM	-	100
Reading4 FPM	-	92
Reading5 FPM	-	106
Reading6 FPM	-	168
Reading7 FPM	-	155
Reading8 FPM	-	116
Reading9 FPM	-	134
Reading10 FPM	-	158
Reading11 FPM	-	189
Reading12 FPM	-	159
Reading13 FPM	-	172
Reading14 FPM	-	162/172
Ave FPM(corr)	-	144
CFM	1950	1911

Completed By: Wesley John on 05/23/2023