

Report By:

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

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Comfort. Under control.

**Report: PLAN REVIEW
Function: Test, Adjust, & Balance
Date: 09/29/2022**

PROJECT

**10-10 CHIPOTLE #04-3419 WATSONVILLE,
CA (WATSONVILLE)**

1075 Main St

WATSONVILLE, CA 95076

Client

Chipotle Mexican Grill
1401 Wynkoop Street, Suite 500
Denver, CO 80202

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Project: 10-10 CHIPOTLE #04-3419 WATSONVILLE, CA (WATSONVILLE)

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10-10 CHIPOTLE #04-3419 WATSONVILLE, CA (WATSONVILLE)

CheckList Information

Name :	PLAN REVIEW	Status :	NotSubmitted
Assigned Organization :	National TAB	Asset :	
Requesting Organization :	National TAB		

CheckList Item Details

Processor Name:	DAMIAN
We have the latest set of drawings and are not working off the Bid Set:	YES
Do we have the submittals from RTU OEM	no
Scheduled AHU/RTU airflow is equivalent to 350 CFM/ton to 400 CFM/ton	YES
Air device totals equal the scheduled airflow of equipment	YES
All air devices have an airflow specified	YES
Less than 30% ratio of OA to SA for all RTU's/AHU's	YES
Net space airflow is between 0 to 500 CFM positive	YES
Scheduled Hood airflow match scheduled EF and MAU airflows	YES
Address correct?	YES
Are the units typical of the prototype? (ie not AHUs, HPs, WSHPs,...)	YES
If OEM provides thermostat (ie, not a lightstat) is thermostat checklist created?	YES
If there are hydroincs what type of valves are there? (Auto flow or Manual; Ask GC/Get Submittal)	YES
Engineer is not required to witness and stamp smoke capture test? (Mecklenburg County, NC only)	YES

Smoke detector testing is not required? (Arizona; Orlando, FL metro area only) YES

Inspector are not required to witness hood readings? (Palm Beach County, FL) YES

Notes/Comments :

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Project: 10-10 CHIPOTLE #04-3419 WATSONVILLE, CA (WATSONVILLE)

System/Unit: AHU/RTU



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Asset: RTU-1

AREA: KITCHEN

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	214510435L
Model Num	YHC102	YHC102
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	37X23
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	
Final Filter Size 2	-	

Test Data		
	Design	Actual
SF CFM	3400	3455
SF RPM	-	DD
RA CFM	2850	2882
OA CFM	550	573
RL Voltage	-	211/212/212
RL Amperage	-	3.16/3.14/3.14
SF Rotation	-	CCW
RA Damper Position	-	75%
Min OA Damper Position	-	25%
Min OA Damper Type	-	MOTORIZED
OA Enthalpy Setpt	-	MINIMUM

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	2.75
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	208-230/460
Rated Amperage	-	7.3

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.57"
Fan Suction SP	-	0.63"
Fan Discharge SP	-	0.61"
Total ESP	0.80"	1.18"
Fan Total SP	-	1.24"

Drive Data		
	Design	Actual
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	DD
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

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

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Project:10-10 CHIPOTLE #04-3419 WATSONVILLE, CA (WATSONVILLE)

AHU/RTU



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Diffuser Supply (GRD)

RTU-1/KITCHEN

Asset											
Asset Name	Location	Type	MFG	Size	Model Num	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	OFFICE	CD1	SUPPLY	8"	NA	150	1	207	156	156	104.0
SGRD2	BOH	CD1	SUPPLY	10"	NA	300	1	174	356	356	118.7
SGRD3	BOH	CD1	SUPPLY	10"	NA	300	1	225	336	336	112.0
SGRD4	BOH	CD1	SUPPLY	8"	NA	200	1	225	273	273	136.5
SGRD5	BOH	CD1	SUPPLY	8"	NA	200	1	0	0	0	0.0
SGRD6	FOOD PREP	CD1	SUPPLY	12"	NA	450	1	509	467	467	103.8
SGRD7	SERVICE LINE	CD2	SUPPLY	8"	NA	250	1	266	273	273	109.2
SGRD8	SERVICE LINE	CD2	SUPPLY	8"	NA	250	1	292	274	274	109.6
SGRD9	SERVICE LINE	CD2	SUPPLY	8"	NA	250	1	246	241	241	96.4
SGRD10	SERVICE LINE	CD2	SUPPLY	8"	NA	250	1	245	264	264	105.6
SGRD11	HOOD1	ACPSP	SUPPLY	183"X6"	NA	800	5.95	1142	815	815	101.9

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System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU-2

AREA:DINING

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	212412048L
Model Num	YHC120	YHC120
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	37X23
Num Final Filter 1	-	3
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	2
Final Filter Size 2	-	20X30X2

Test Data		
	Design	Actual
SF CFM	4000	4073
SF RPM	-	DD
RA CFM	3000	3052
OA CFM	1000	1021
RL Voltage	-	213/212/212
RL Amperage	-	3.4/3.4/3.4
SF Rotation	-	CCW
RA Damper Position	-	65
Min OA Damper Position	-	35
Min OA Damper Type	-	MOTORIZED
OA Enthalpy Setpt	-	MINIMUM

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	2.75
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	208-230/460
Rated Amperage	-	7.3

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.59"
Fan Suction SP	-	-0.69"
Fan Discharge SP	-	0.51"
Total ESP	0.80"	1.10"
Fan Total SP	-	1.20"

Drive Data		
	Design	Actual
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	DD
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

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

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Project:10-10 CHIPOTLE #04-3419 WATSONVILLE, CA (WATSONVILLE)

AHU/RTU



Comfort. Under control.

Diffuser Supply (GRD)

RTU-2/DINING

Asset											
Asset Name	Location	Type	MFG	Size	Model Num	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	DINING	SR1	SUPPLY	14"	NA	300	1	831	323	323	107.7
SGRD2	DINING	SR1	SUPPLY	14"	NA	300	1	679	313	313	104.3
SGRD3	DINING	SR1	SUPPLY	14"	NA	850	1	671	832	832	97.9
SGRD4	DINING	SR1	SUPPLY	14"	NA	850	1	658	872	872	102.6
SGRD5	DINING	SR1	SUPPLY	14"	NA	850	1	681	881	881	103.6
SGRD6	DINING	SR1	SUPPLY	14"	NA	850	1	742	852	852	100.2

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Project: 10-10 CHIPOTLE #04-3419 WATSONVILLE, CA (WATSONVILLE)

System/Unit: FAN - Exhaust



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Asset: EF-1

AREA:HD-1 - COOKLINE

Unit Data		
	Design	Actual
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	NCA24HPFA	DU240HFA
Serial Num	-	4702455
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	NEMA
Frame	-	213T
Horsepower	2	3
Motor Rpm	-	1170
Phase	3	3
Voltage (rated)	208	208-230/460
Amperage (rated)	-	9.23/4.62
Service Factor	-	1.15

Drive Data		
	Design	Actual
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	DD
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD

Test Data		
	Design	Actual
CFM	3200	3159
Fan RPM	-	37.5HZ
Fan Rotation	-	CCW
Motor RPM	-	37.5HZ
RL Voltage	-	211/212/212
RL Amperage	-	5.95/5.7/5.93
Suction ESP	-	-0.89"
Discharge ESP	-	ATM
Total ESP	1.20"	0.89"

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Project: 10-10 CHIPOTLE #04-3419 WATSONVILLE, CA (WATSONVILLE)

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	-	4702455
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	0.18	0.25
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	2.9
Service Factor	-	1.15

Test Data		
	Design	Actual
CFM	200	214
Fan RPM	-	1012
Fan Rotation	-	CCW
Motor RPM	-	1012
System SetPt	-	55%
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	0.60"	-0.34"
Fan Inlet SP	-	-0.34"
Fan Discharge SP	-	ATM

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Project:10-10 CHIPOTLE #04-3419 WATSONVILLE, CA (WATSONVILLE)

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"	100	1	112	105	105	105.0
EGRD2	RR	ER1	6"X6"	100	1	117	109	109	109.0

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Project: 10-10 CHIPOTLE #04-3419 WATSONVILLE, CA (WATSONVILLE)

System/Unit: FAN - Supply



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Asset: MUA-1

AREA:HD-1 - COOKLINE

Unit Data		
	Design	Actual
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	A1-D.250-G10	A1-D.250-15D
Serial Num	-	4702455
Type	MUA	MUA
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	NEMA
Frame	-	145T
Horsepower	2	2
Motor Rpm	-	1740
Phase	3	3
Voltage (rated)	208	230/460
Amperage (rated)	-	5.43/2.74
Service Factor	-	1.15

Drive Data		
	Design	Actual
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment Verified	-	DD

Gas Heat		
	Design	Actual
Heater Operates (y/n)	-	YES
Flame Status (pass/fail)	-	PASS
Inlet Air Temp SetPt	55	55
Discharge Air Temp SetPt	60	60
Air Flow Switch SP Actual	-	0.39"

Test Data		
	Design	Actual
CFM	1950	1963
SF RPM	-	54.6HZ
Motor RPM	-	54.6HZ
RL Voltage	-	212/212/213
RL Amperage	-	2.8/2.9/2.16
Total ESP	-	NA
Fan Discharge SP	-	NA

General		
	Design	Actual
Fan Rotation Correct	-	YES

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Project: 10-10 CHIPOTLE #04-3419 WATSONVILLE, CA (WATSONVILLE)

System/Unit: Kitchen Hood Type I



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Asset: HD-1

AREA:COOK LINE

Unit Data		
	Design	Actual
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	5424 ND-2-ACPSP-F	5424 ND-2-ACPSP-F
Job / Serial Num	-	4702455
Type	TYPE I CANOPY	TYPE I
Hood length	171"	171"
Hood Width	54"	54"
Supply Plenum Type	-	PERFORATED
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 Size 2	-	
Filter Qty 1	10	10
Filter Qty 2	-	
Filter AK factor size 1	1.62	1.62
Filters AK factor size 2	-	
Filter Total AK Area	16.2	16.2
Filter1 FPM	-	197
Filter2 FPM	-	202
Filter3 FPM	-	209
Filter4 FPM	-	209
Filter5 FPM	-	195
Filter6 FPM	-	187
Filter7 FPM	-	192
Filter8 FPM	-	199
Filter9 FPM	-	193
Filter10 FPM	-	175
Filter11 FPM	-	
Filter12 FPM	-	
Filter Ave FPM(corr)	-	195
CFM	3200	3159

Cooking Equipment		
	Design	Actual
Item 1	-	FLAT TOP GRILL
Item 2	-	STOVE RANGE
Item 3	-	RICE COOKER
Item 4	-	FRYER
Item 5	-	

Test Data Supply		
	Design	Actual
Total AK Area	15.25	15.25
Kv factor (Vel)	0.87	0.87
Num of Readings	-	12
Reading1 FPM	-	150
Reading2 FPM	-	127
Reading3 FPM	-	134
Reading4 FPM	-	166
Reading5 FPM	-	131
Reading6 FPM	-	133
Reading7 FPM	-	135
Reading8 FPM	-	170
Reading9 FPM	-	169
Reading10 FPM	-	139
Reading11 FPM	-	156
Reading12 FPM	-	177
Reading13 FPM	-	
Reading14 FPM	-	
Ave FPM(corr)	-	
CFM	1950	1963

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