Report By:

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

Report: EVALUATION

Function: Test, Adjust, & Balance

Date: 10/31/2024

Completed By: National TAB

PROJECT

Chili's - Orlando, FL

12172 S Apopka Vineland Rd

Orlando, FL 32836

Client

Brinker

3000 Olympus Blvd

Coppell, TX 75019

National TAB

Project: Chili's - Orlando, FL

Table Of Contents

1329 E Kemper Rd
Suite 4210
Cincinnati, OH 45246
[855] 682 6822

Summary

The purpose of this building evaluation at Chili's in Lady Lake, FL was to provide an overall evaluation of the HVAC systems and balance of the space. There have been concerns about humidity issues within the building as well as balance concerns.

Mechanical drawings were not available so original design values are unknown. Design airflows were determined based on application of equipment and nominal size of units. This restaurant has Powerhouse Dynamics installed on it.

Building pressure was initially found to be very negative (-0.0518") and measured as net -1148 CFM. Condensation was observed on the exposed ductwork over the bar and general dining areas. Controls are set up to have the fans run in auto mode. The fans should be set to fan on while the restaurant is occupied to ensure a neutral building pressure.

Airflow for the RTU's was measured. Based on a target airflow of 400 CFM/ton, RTU's 1 and 3 are both low on flow. RTU-3 is especially low. The outside air for the RTU's is also low and needs to be increased to ensure positive building pressure. RTU-1 has humidity control listed on it's options sticker but the humidity sensor is not wired. Therefore the unit is not dehumidifying currently. Both RTU's 1 and 3 have active compressor alarms that need to be addressed. s

Exhaust airflow for the hoods was measured as is. The fryer and oven hood are both having capture and containment issues. The MUA for the hoods is a non-conditioned unit which is not recommended for Florida. During final TAB, if possible without worsening hood capture, it would be ideal to turn this unit off to avoid introducing more humidity into the space.

Recommendations / Next Steps

In order to resolve the humidity and pressurization issues in the space, the following is recommended:

1. Humidity sensor needs to be wired for RTU-1 per the manufacturers recommendations. This requires two separate shielded twisted pairs.
2. Alarms on RTU's 1 and 3 need to be resolved. It appears that they may be preventing 1st stage of cooling from operating.
3. Powerhouse Dynamics needs to adjust their controls so that the RTU's are operating in fan ON mode while the restaurant is occupied and not fan auto.
4. Review observations on the following pages. There are some maintenance related issues that need to be resolved that don't necessarily impact the balance of the space but will affect the HVAC/Kitchen hood performance.
5. Would be determined during a final TAB if it is feasible, but ideally the non-conditioned MUA would be completely turned off to avoid adding additional humidity into the space.
6. After completion of items 1 to 4, National TAB should return to perform the TAB to adjust RTU airflows, further investigate hood performance issues, set OA, and ensure positive building pressure.

Issue List

- EF#2 is dirty
- Evaporator coils are dirty on RTU#2 and RTU#3
- Fryer hood and Oven hood have smoke capture issues
- Makeup air pulleys are not alligned
- MUA outside air filters are dirty and slightly damaged
- Outside air filter not secure on RTU#1
- RTU#1 alarm 22: Low Pressure Switch Compressor 1
- RTU#1 humidity sensor is not wired
- RTU#2 blower wheel is dirty
- RTU#3 alarm 32: Comp 1 FRZSTAT
- RTU#3 has dirty final filters
- RTU#3 thermostat display is not functional
- RTUs are on auto mode all day
- Smoke detector dust plug caps need to be removed

Chili's - Orlando, FL

Project Issue Information

Issue Name : EF#2 is dirty

Description : EF#2 servicing the left grill hood is full of grease and does not seem to be draining properly. Fan needs to be cleaned and made sure it properly drains grease.

Created By : National TAB
Assigned To : National TAB - Ian Fuller
Status : Open
Priority : Medium
Asset Tag :
Originated Date : 11/04/2024 - Ian Fuller - National TAB

Project Issue Response Details

- **11/04/2024 National TAB - Ian Fuller**
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11/04/2024

11/04/2024

Chili's - Orlando, FL

Project Issue Information

Issue Name : Evaporator coils are dirty on RTU#2 and RTU#3
Description : Evaporator coils are dirty on RTU-2 and 3. Recommend cleaning.

Created By : National TAB
Assigned To : National TAB - Ian Fuller
Status : Open
Priority : High
Asset Tag :
Originated Date : 11/04/2024 - Ian Fuller - National TAB

Project Issue Response Details

- **11/04/2024 National TAB - Ian Fuller**
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11/04/2024

11/04/2024

Chili's - Orlando, FL

Project Issue Information

Issue Name : Fryer hood and Oven hood have smoke capture issues
Description : The fryer and oven hoods have smoke capture issues. Further evaluation and adjustments may be required during final TAB.

Created By : National TAB
Assigned To : National TAB - Ian Fuller
Status : Open
Priority : High
Asset Tag :
Originated Date : 11/04/2024 - Ian Fuller - National TAB

Project Issue Response Details

- **11/04/2024 National TAB - Ian Fuller**
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11/04/2024

Chili's - Orlando, FL

Project Issue Information

Issue Name : Makeup air pulleys are not alligned
Description : Pulleys need to be aligned to lengthen the lifespan of belts and the motor.

Created By : National TAB
Assigned To : National TAB - Ian Fuller
Status : Open
Priority : Medium
Asset Tag :
Originated Date : 11/04/2024 - Ian Fuller - National TAB

Project Issue Response Details

- **11/04/2024 National TAB - Ian Fuller**
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11/04/2024

Chili's - Orlando, FL

Project Issue Information

Issue Name : MUA outside air filters are dirty and slightly damaged
Description : Recommended to clean or replace filters to improve airflow

Created By : National TAB
Assigned To : National TAB - Ian Fuller
Status : Open
Priority : Medium
Asset Tag :
Originated Date : 11/04/2024 - Ian Fuller - National TAB

Project Issue Response Details

- **11/04/2024 National TAB - Ian Fuller**
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11/04/2024

11/04/2024

Chili's - Orlando, FL

Project Issue Information

Issue Name : Outside air filter not secure on RTU#1
Description : Outside air filter found laying on roof. Filter was put back into place. Recommended to secure OA filter to the unit.

Created By : National TAB
Assigned To : National TAB - Ian Fuller
Status : Open
Priority : Medium
Asset Tag :
Originated Date : 11/04/2024 - Ian Fuller - National TAB

Project Issue Response Details

- **11/04/2024 National TAB - Ian Fuller**
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11/04/2024

Chili's - Orlando, FL

Project Issue Information

Issue Name : RTU#1 alarm 22: Low Pressure Switch Compressor 1
Description : Alarm has shut down use of Compressor 1. Unit is unable to fully cool space.

Created By : National TAB
Assigned To : National TAB - Ian Fuller
Status : Open
Priority : Urgent
Asset Tag :
Originated Date : 11/04/2024 - Ian Fuller - National TAB

Project Issue Response Details

- **11/04/2024 National TAB - Ian Fuller**
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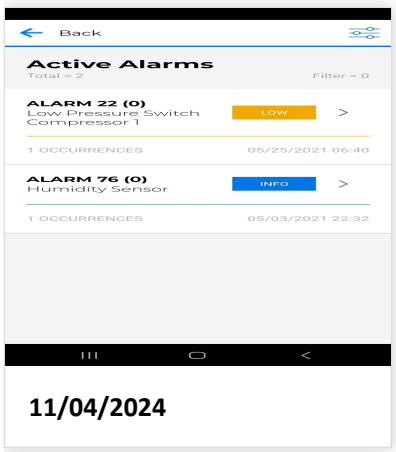

Chili's - Orlando, FL

Project Issue Information

Issue Name : RTU#1 humidity sensor is not wired

Description : RTU#1 has humidtrol on its package details, however, there is no humidity sensor wired to the unit so it cannot dehumidify. Recommended to wire humidity sensor per manufacturers specifications (i.e., two separate shielded twisted pairs required).

Created By : National TAB **Assigned To :** National TAB - Ian Fuller

Status : Open

Priority : Urgent **Asset Tag :**

Originated Date : 11/04/2024 - Ian Fuller - National TAB

Project Issue Response Details

- **11/04/2024 National TAB - Ian Fuller**
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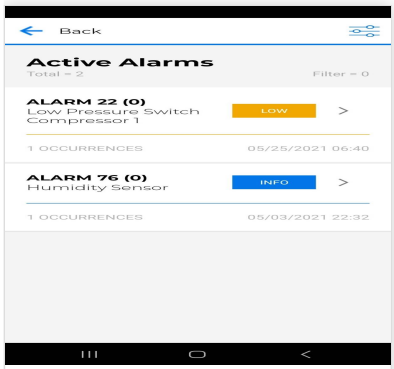
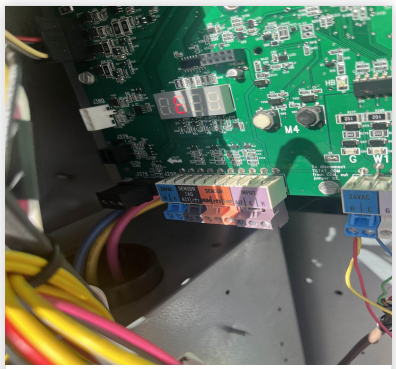


11/04/2024



11/04/2024

Chili's - Orlando, FL

Project Issue Information

Issue Name : RTU#2 blower wheel is dirty
Description : Recommended to clean blower wheel.

Created By : National TAB
Assigned To : National TAB - Ian Fuller
Status : Open
Priority : High
Asset Tag :
Originated Date : 11/04/2024 - Ian Fuller - National TAB

Project Issue Response Details

- **11/04/2024 National TAB - Ian Fuller**
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11/04/2024

Chili's - Orlando, FL

Project Issue Information

Issue Name : RTU#3 alarm 32: Comp 1 FRZSTAT
Description : Alarm has shutdown use of compressor 1. Unit is unable to fully cool space.

Created By : National TAB
Assigned To : National TAB - Ian Fuller
Status : Open
Priority : Urgent
Asset Tag :
Originated Date : 11/04/2024 - Ian Fuller - National TAB

Project Issue Response Details

- **11/04/2024 National TAB - Ian Fuller**
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11/04/2024

Chili's - Orlando, FL

Project Issue Information

Issue Name : RTU#3 has dirty final filters
Description : Final filters are dirty and need to be replaced

Created By : National TAB
Assigned To : National TAB - Ian Fuller
Status : Open
Priority : High
Asset Tag :
Originated Date : 11/04/2024 - Ian Fuller - National TAB

Project Issue Response Details

- **11/04/2024 National TAB - Ian Fuller**
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11/04/2024

Chili's - Orlando, FL

Project Issue Information

Issue Name : RTU#3 thermostat display is not functional
Description : Thermostat display does not work. Staff is unable to control temperature in space. Recommended to replace thermostat.

Created By : National TAB
Assigned To : National TAB - Ian Fuller
Status : Open
Priority : High
Asset Tag :
Originated Date : 11/04/2024 - Ian Fuller - National TAB

Project Issue Response Details

- **11/04/2024 National TAB - Ian Fuller**
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11/04/2024

Chili's - Orlando, FL

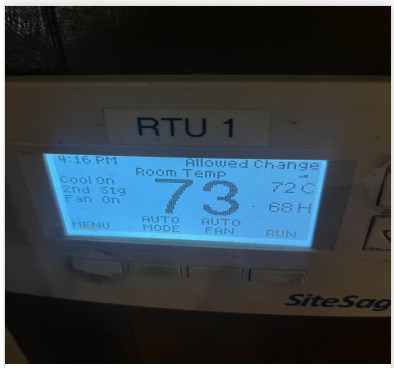
Project Issue Information

Issue Name : RTUs are on auto mode all day
Description : Fans need to be set to fan on during occupied hours for building pressurization.

Created By : National TAB
Assigned To : National TAB - Ian Fuller
Status : Open
Priority : Urgent
Asset Tag :
Originated Date : 11/04/2024 - Ian Fuller - National TAB

Project Issue Response Details

- **11/04/2024 National TAB - Ian Fuller**
  - .



11/04/2024

Chili's - Orlando, FL

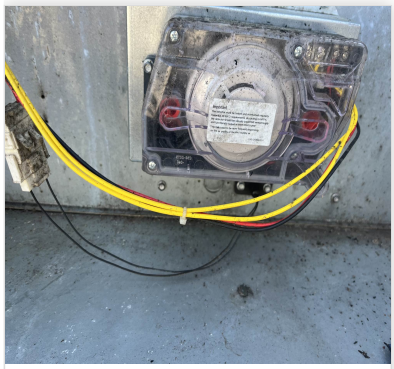
Project Issue Information

Issue Name : Smoke detector dust plug caps need to be removed
Description : Dust plug caps need to be removed from RTU#1 and RTU#2

Created By : National TAB
Assigned To : National TAB - Ian Fuller
Status : Open
Priority : Medium
Asset Tag :
Originated Date : 11/04/2024 - Ian Fuller - National TAB

Project Issue Response Details

- **11/04/2024 National TAB - Ian Fuller**
  - .



11/04/2024

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
AC-1	BAR		5044	0	4553		491	#DIV/0!	9.7%						
AC-2	DINING		5430	0	4720		710	#DIV/0!	13.1%						
AC-3	KITCHEN		4409	0	3469		940	#DIV/0!	21.3%						
MUA-1	HOOD2 & HOOD3										585				
EF-1	FRYER HOOD												1075		
EF-2	GRILL HOOD LEFT												1042		
EF-3	GRILL HOOD RIGHT												1028		
EF-4	OVEN HOOD												617		
EF-5	RESTROOM														112
EF-6	DISHWASHER FAN														396
TOTALS		0	14883	0	12742	0	2141			0	585	0	3762	0	112

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	0	2726
TOTAL EXHAUST	0	3874
NET AIRFLOW	0	-1148

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H20)
FRONT	-0.0259
SIDE	
REAR	-0.0777
AVERAGE	**-0.0518**

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:

National TAB

Project: Chili's - Orlando, FL

System/Unit: AHU/RTU

Asset: RTU1 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	LENNOX
Serial Num	-	5623J02995
Model Num	NA	LGT092H4EM1Y
Type	-	RTU
Configuration	-	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	23X14
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	EBMPAPST
Frame	-	N/A
Horsepower	-	N/A
Motor Rpm	-	2200
Phase	-	3
Rated Voltage	-	200-240
Rated Amperage	-	8.7

Drive Data	
	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

Test Data		
	Design	**Actual**
SF CFM	-	3823
RA CFM	-	3140
OA CFM	-	683
SF Rotation	-	CCW
SF System SetPt	-	75%
RA Damper Position	-	70%
Min OA Damper Position	-	30%
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.21"
Fan Suction SP	-	-0.41"
Fan Discharge SP	-	0.18"
Total ESP	-	0.39"
Fan Total SP	-	0.59"

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	NO
Condensate Drain Installed	YES

Completed By: Ian Fuller on 12/23/2024

Notes:
OA TEMP (DB/WB): 72.1 F / 67.9 F
SA TEMP (DB/WB): 54.3 F / 51.3 F

Written By: Ian Fuller on 12/23/2024

National TAB

Project: Chili's - Orlando, FL

System/Unit: AHU/RTU

Asset: RTU2 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	LENNOX
Serial Num	-	5613K01731
Model Num	NA	LGH060H4ES2Y
Type	-	RTU
Configuration	-	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	15.5X19.5
Num Final Filter 1	-	4
Final Filter Size 1	-	20X20X2

Motor Data		
	Design	**Actual**
Motor MFG	-	N/A
Frame	-	N/A
Horsepower	-	1.0
Motor Rpm	-	1050
Phase	-	1
Rated Voltage	-	120
Rated Amperage	-	12.8

Drive Data	
	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

Test Data		
	Design	**Actual**
SF CFM	-	1869
RA CFM	-	1869
OA CFM	-	0
SF Rotation	-	CCW
SF System SetPt	-	68%
RA Damper Position	-	100%
Min OA Damper Position	-	0%
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.14"
Fan Suction SP	-	-0.29"
Fan Discharge SP	-	0.10"
Total ESP	-	0.24"
Fan Total SP	-	0.39"

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	NO
Condensate Drain Installed	YES

Completed By: Ian Fuller on 12/23/2024

Notes:
OA TEMP (DB/WB): 72.1 F / 67.9 F
SA TEMP (DB/WB): 51.6 F / 47.8 F

OA DAMPER IS NOT FUNCTIONING

Written By: Ian Fuller on 12/23/2024

National TAB

Project: Chili's - Orlando, FL

System/Unit: AHU/RTU

Asset: RTU3 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	LENNOX
Serial Num	-	5623M03184
Model Num	NA	LGT092H4EM1Y
Type	-	RTU
Configuration	-	VERTICAL
Num OA Filters 1	-	0
OA Filter Size 1	-	N/A
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	EBMPAPST
Frame	-	N/A
Horsepower	-	N/A
Motor Rpm	-	2200
Phase	-	3
Rated Voltage	-	200-240
Rated Amperage	-	8.7

Drive Data	
	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

Test Data		
	Design	**Actual**
SF CFM	-	4023
RA CFM	-	4023
OA CFM	-	0
SF Rotation	-	CCW
SF System SetPt	-	85%
RA Damper Position	-	N/A
Min OA Damper Position	-	N/A
Min OA Damper Type	-	NO OA

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.25"
Fan Suction SP	-	-0.47"
Fan Discharge SP	-	0.11"
Total ESP	-	0.36"
Fan Total SP	-	0.58"

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	NO
Condensate Drain Installed	YES

Completed By: Ian Fuller on 12/23/2024

Notes:
OA TEMP (DB/WB):
SA TEMP (DB/WB):

Written By: Ian Fuller on 12/23/2024

National TAB

Project: Chili's - Orlando, FL

System/Unit: AHU/RTU

Asset: RTU4 AREA:

Unit Data		
	Design	**Actual**
MFG	N/A	LENNOX
Serial Num	-	5623K01289
Model Num	N/A	LGT180H4MS1Y
Type	-	RTU
Configuration	-	VERTICAL
Num OA Filters 1	-	3
OA Filter Size 1	-	23X13
Num Final Filter 1	-	6
Final Filter Size 1	-	20X25X2

Test Data		
	Design	**Actual**
SF CFM	-	5280
RA CFM	-	4298
OA CFM	-	982
SF Rotation	-	CCW
SF System SetPt	-	60 HZ
RA Damper Position	-	68%
Min OA Damper Position	-	32%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	5

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	-	
Rated Voltage	-	
Rated Amperage	-	

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.31"
Fan Suction SP	-	-0.54"
Fan Discharge SP	-	0.33"
Total ESP	-	0.64"
Fan Total SP	-	0.87"

Drive Data	
	Actual
Motor Sheave Size	4.5”
Motor Bore Size	1.125”
Motor Sheave SetPt	2.5 TURNS OUT
Fan Sheave Size	9.5”
Fan Sheave Bore	1.1875”
Belt CL Distance	20.75”
Num of Belts	1
Belt Size	BX61
Belt Alignment	GOOD

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	NO
Condensate Drain Installed	YES

Completed By: Ian Fuller on 12/23/2024

Notes:
OA TEMP (DB/WB): 72.1 F / 67.9 F
SA TEMP (DB/WB): 54.0 F / 49.9 F

Written By: Ian Fuller on 12/23/2024

National TAB

Project: Chili's - Orlando, FL

System/Unit: AHU/RTU

Asset: RTU5 AREA:

Unit Data		
	Design	**Actual**
MFG	N/A	LENNOX
Serial Num	-	5623M03185
Model Num	N/A	LGT092H4EM1Y
Type	-	RTU
Configuration	-	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	N/A
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Test Data		
	Design	**Actual**
SF CFM	-	3614
RA CFM	-	3154
OA CFM	-	460
SF Rotation	-	CCW
SF System SetPt	-	68%
RA Damper Position	-	N/A
Min OA Damper Position	-	31%
Min OA Damper Type	-	OA DAMPER
OA Enthalpy Setpt	-	5

Motor Data		
	Design	**Actual**
Motor MFG	-	EBMPAPST
Frame	-	N/A
Horsepower	-	N/A
Motor Rpm	-	2200
Phase	-	3
Rated Voltage	-	200-240
Rated Amperage	-	8.7

Performance Data		
	Design	**Actual**
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	-	
Fan Total SP	-	

Drive Data	
	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	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	NO
Condensate Drain Installed	YES

Completed By: Ian Fuller on 12/23/2024

Notes:
OA TEMP (DB/WB): 72.1 F / 67.9 F
SA TEMP (DB/WB): 53.3 F / 49.8 F

MISSING OA FILTER

Written By: Ian Fuller on 12/23/2024

National TAB

Project: Chili's - Orlando, FL

System/Unit: AHU/RTU

Asset: RTU6 AREA:

Unit Data		
	Design	**Actual**
MFG	N/A	LENNOX
Serial Num	-	5614K09296
Model Num	N/A	LGH150S4BS4Y
Type	-	RTU
Configuration	-	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	N/A
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	INTERLINK
Frame	-	56HZ
Horsepower	-	3.0
Motor Rpm	-	1745
Phase	-	3
Rated Voltage	-	200-230
Rated Amperage	-	7.8-7.4

Drive Data	
	Actual
Motor Sheave Size	5.0”
Motor Bore Size	0.875”
Motor Sheave SetPt	2.5 TURNS OUT
Fan Sheave Size	7.0”
Fan Sheave Bore	1.0”
Belt CL Distance	21.5”
Num of Belts	1
Belt Size	AX58
Belt Alignment	GOOD

Test Data		
	Design	**Actual**
SF CFM	-	4140
RA CFM	-	3673
OA CFM	-	467
SF Rotation	-	CCW
SF System SetPt	-	CCW
RA Damper Position	-	N/A
Min OA Damper Position	-	1.5”
Min OA Damper Type	-	MANUAL DAMPER
OA Enthalpy Setpt	-	5

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.23"
Fan Suction SP	-	-0.39"
Fan Discharge SP	-	0.16"
Total ESP	-	0.39"
Fan Total SP	-	0.55"

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	NO
Condensate Drain Installed	YES

Completed By: Ian Fuller on 12/23/2024

Notes:
OA TEMP (DB/WB): 72.1 F / 67.9 F
SA TEMP (DB/WB): 49.6 F / 47.1 F

Written By: Ian Fuller on 12/23/2024

National TAB

Project: Chili's - Orlando, FL

System/Unit: FAN - Exhaust

Asset: EF1 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	ILG
Model Num	NA	N/A
Serial Num	-	N/A
Type	-	UPBLAST
Configuration	-	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	145T
Horsepower	-	1.5
Motor Rpm	-	1755
Phase	-	3
Voltage (rated)	-	230
Amperage (rated)	-	4.4
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	4.25”
Motor Bore Size	0.875”
Motor Sheave SetPt	2.5 TURNS OUT
Fan Sheave Size	5.0”
Fan Sheave Bore	0.75”
Belt CL Distance	6.0”
Num of Belts	1
Belt Size	AX22

Test Data		
	Design	**Actual**
CFM	-	2333
Fan Rotation	-	CW

Completed By: Ian Fuller on 12/23/2024

Notes:
FRYER HOOD

Written By: Ian Fuller on 12/23/2024

National TAB

Project: Chili's - Orlando, FL

System/Unit: FAN - Exhaust

Asset: EF2 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	CAPTIVEAIRE
Model Num	NA	DU85HFA
Serial Num	-	5031958
Type	-	UPBLAST
Configuration	-	VERTICAL

Test Data		
	Design	**Actual**
CFM	-	1056
Fan RPM	-	1354
Fan Rotation	-	CCW
Motor RPM	-	47.1 HZ

Motor Data		
	Design	**Actual**
Motor MFG	-	HSSA
Frame	-	N/A
Horsepower	-	0.75
Motor Rpm	-	1725
Phase	-	3
Voltage (rated)	-	208-230
Amperage (rated)	-	2.6-2.5
Service Factor	-	1.15

Drive Data	
	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

Completed By: Ian Fuller on 12/23/2024

Notes:
GRIDDLE HOOD

Written By: Ian Fuller on 12/23/2024

National TAB

Project: Chili's - Orlando, FL

System/Unit: FAN - Exhaust

Asset: EF3 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	ILG
Model Num	NA	N/A
Serial Num	-	N/A
Type	-	UPBLAST
Configuration	-	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	MARATHON
Frame	-	56
Horsepower	-	0.5
Motor Rpm	-	1725
Phase	-	3
Voltage (rated)	-	208-230
Amperage (rated)	-	2.3-2.2
Service Factor	-	1.25

Drive Data	
	Actual
Motor Sheave Size	4.0”
Motor Bore Size	0.625”
Motor Sheave SetPt	4 TURNS OUT
Fan Sheave Size	4.0”
Fan Sheave Bore	0.75”
Belt CL Distance	5.5”
Num of Belts	1
Belt Size	N/A

Test Data		
	Design	**Actual**
CFM	-	829
Fan Rotation	-	CW

Completed By: Ian Fuller on 12/23/2024

National TAB

Project: Chili's - Orlando, FL

System/Unit: FAN - Exhaust

Asset: EF4 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	N/A
Model Num	NA	N/A
Serial Num	-	N/A
Type	-	UTILITY SET
Configuration	-	VERTICAL

Test Data		
	Design	**Actual**
CFM	-	1460
Fan Rotation	-	CW

Motor Data		
	Design	**Actual**
Motor MFG	-	NEMA
Frame	-	N/A
Horsepower	-	1.5
Motor Rpm	-	1740
Phase	-	3
Voltage (rated)	-	230
Amperage (rated)	-	3.9
Service Factor	-	1.15

Completed By: Ian Fuller on 12/23/2024

National TAB

Project: Chili's - Orlando, FL

System/Unit: FAN - Exhaust

Asset: EF6 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	N/A
Model Num	NA	N/A
Serial Num	-	N/A
Type	-	DOWNBLAST
Configuration	-	VERTICAL

Test Data		
	Design	**Actual**
CFM	-	212
System SetPt	-	MAX

Completed By: Ian Fuller on 12/23/2024

National TAB

Project: Chili's - Orlando, FL

System/Unit: FAN - Exhaust

Asset: EF7 AREA:

Unit Data		
	Design	**Actual**
MFG	N/A	CAPTIVEAIRE
Model Num	N/A	DU30HFA
Serial Num	-	5655069
Type	-	UPLBAST
Configuration	-	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	HSSA
Frame	-	48Y
Horsepower	-	0.25
Motor Rpm	-	1400
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	4.0
Service Factor	-	1.0

Test Data		
	Design	**Actual**
CFM	-	421

Completed By: Ian Fuller on 12/23/2024

Notes:
DISHWASHER HOOD

Written By: Ian Fuller on 12/23/2024

National TAB

Project: Chili's - Orlando, FL

System/Unit: FAN - Supply

Asset: MUA1 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	SUPREME FAN
Model Num	NA	SF-1010
Serial Num	-	0695-003
Type	-	MUA
Configuration	-	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	CENTURY
Frame	-	J56
Horsepower	-	0.5
Motor Rpm	-	1725
Phase	-	3
Voltage (rated)	-	460/200-230
Amperage (rated)	-	1.0/1.8-2.0
Service Factor	-	1.25

Drive Data	
	Actual
Motor Sheave Size	4.25”
Motor Bore Size	0.625”
Fan Sheave Size	8.5”
Fan Sheave Bore	0.75”
Belt CL Distance	12.0”
Num of Belts	1
Belt Size	AX41
Belt Alignment Verified	NOT ALIGNED

Test Data		
	Design	**Actual**
CFM	-	621

General	
	Actual
Fan Rotation Correct	YES

Completed By: Ian Fuller on 12/23/2024

Notes:
20X12

Written By: Ian Fuller on 12/23/2024

National TAB

Project: Chili's - Orlando, FL

System/Unit: FAN - Supply

Asset: MUA2 AREA:

Unit Data		
	Design	**Actual**
MFG	N/A	LOREN COOK
Model Num	N/A	180 KSP 180KSP-B
Serial Num	-	008SF45372-00/0000701
Type	-	MUA
Configuration	-	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	WEG
Frame	-	143/5T
Horsepower	-	1.5
Motor Rpm	-	1760
Phase	-	3
Voltage (rated)	-	208-230
Amperage (rated)	-	4.58-4.14
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	3.25”
Motor Bore Size	0.25”
Fan Sheave Size	7.75”
Fan Sheave Bore	1.0”
Belt CL Distance	20.0”
Num of Belts	1
Belt Size	AX54
Belt Alignment Verified	GOOD

Test Data		
	Design	**Actual**
CFM	-	2450

General	
	Actual
Fan Rotation Correct	YES

Completed By: Ian Fuller on 12/23/2024

Notes:
2: 28X21

Written By: Ian Fuller on 12/23/2024

National TAB

Project: Chili's - Orlando, FL

System/Unit: Kitchen Hood Type I

Asset: HD1 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	GREASE MASTER
Model Num	NA	GWC-9
Job / Serial Num	-	N/A
Type	-	TYPE II LOW PROXIMITY
Supply Plenum Type	-	SHORT CYCLE

Test Data Exhaust		
	Design	**Actual**
Filter Type	-	BAFFLE
Filter Size 1	-	20X16
Filter Qty 1	-	6
Filter AK factor size 1	-	2.08
Filter Total AK Area	-	12.48
Filter1 FPM	-	109
Filter2 FPM	-	128
Filter3 FPM	-	118
Filter4 FPM	-	122
Filter5 FPM	-	119
Filter6 FPM	-	110
Filter Ave FPM(corr)	-	117
CFM	-	1460

Cooking Equipment	
	Actual
Item 1	GRILL
Item 2	ROASTER

Completed By: Ian Fuller on 12/23/2024

Notes:
GRILL HOOD RIGHT

Written By: Ian Fuller on 12/23/2024

National TAB

Project: Chili's - Orlando, FL

System/Unit: Kitchen Hood Type I

Asset: HD2 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	GREASE MASTER
Model Num	NA	N/A
Job / Serial Num	-	N/A
Type	-	TYPE I LOW PROXIMITY
Supply Plenum Type	-	SHORT CYCLE

Test Data Exhaust		
	Design	**Actual**
Filter Type	-	BAFFLE
Filter Size 1	-	20X16
Filter Size 2	-	16X16
Filter Qty 1	-	4
Filter Qty 2	-	1
Filter AK factor size 1	-	2.08
Filters AK factor size 2	-	1.62
Filter Total AK Area	-	9.94
Filter1 FPM	-	290
Filter2 FPM	-	267
Filter3 FPM	-	257
Filter4 FPM	-	182
Filter5 FPM	-	178
Filter Ave FPM(corr)	-	234
CFM	-	2333

Cooking Equipment	
	Actual
Item 1	FRYER

Completed By: Ian Fuller on 12/23/2024

Notes:
FRYER HOOD

Written By: Ian Fuller on 12/23/2024

National TAB

Project: Chili's - Orlando, FL

System/Unit: Kitchen Hood Type I

Asset: HD3 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	GREASE MASTER
Model Num	NA	N/A
Job / Serial Num	-	N/A
Type	-	TYPE II LOW PROXIMITY

Test Data Exhaust		
	Design	**Actual**
Filter Type	-	BAFFLE
Filter Size 1	-	20X16
Filter Qty 1	-	2
Filter AK factor size 1	-	2.08
Filter Total AK Area	-	4.16
Filter1 FPM	-	0
Filter2 FPM	-	0
Filter Ave FPM(corr)	-	0
CFM	-	0

Cooking Equipment	
	Actual
Item 1	N/A

Completed By: Ian Fuller on 12/23/2024

Notes:
HOOD IS TURNED OFF

Written By: Ian Fuller on 12/23/2024

National TAB

Project: Chili's - Orlando, FL

System/Unit: Kitchen Hood Type I

Asset: HD4 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	GREASE MASTER
Model Num	NA	GWC-9
Job / Serial Num	-	N/A
Type	-	TYPE II LOW PROXIMITY

Test Data Exhaust		
	Design	**Actual**
Filter Type	-	BAFFLE
Filter Size 1	-	20X16
Filter Qty 1	-	3
Filter AK factor size 1	-	2.08
Filter Total AK Area	-	6.24
Filter1 FPM	-	120
Filter2 FPM	-	151
Filter3 FPM	-	128
Filter Ave FPM(corr)	-	133
CFM	-	829

Cooking Equipment	
	Actual
Item 1	OVEN
Item 2	FRYER

Completed By: Ian Fuller on 12/23/2024

Notes:
OVEN HOOD

Written By: Ian Fuller on 12/23/2024

National TAB

Project: Chili's - Orlando, FL

System/Unit: Kitchen Hood Type I

Asset: HD5 AREA:

Unit Data		
	Design	**Actual**
MFG	N/A	GREASE MASTER
Model Num	N/A	N/A
Type	-	TYPE I LOW PROXIMITY
Supply Plenum Type	-	SHORT CYCLE

Test Data Exhaust		
	Design	**Actual**
Filter Type	-	BAFFLE
Filter Size 1	-	20X16
Filter Qty 1	-	3
Filter AK factor size 1	-	2.08
Filter Total AK Area	-	6.24
Filter1 FPM	-	171
Filter2 FPM	-	163
Filter3 FPM	-	174
Filter Ave FPM(corr)	-	169
CFM	-	1056

Cooking Equipment	
	Actual
Item 1	GRIDDLE

Completed By: Ian Fuller on 12/23/2024

Notes:
GRILL HOOD LEFT

Written By: Ian Fuller on 12/23/2024