Report By:

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

Report: TAB REPORT

Function: Test, Adjust, & Balance

Date: 08/22/2023

PROJECT

06-05-23 FREDDY'S - TOMS RIVER, NJ

149 E ROUTE 37

TOMS RIVER, NJ

Client

AAA Hospitality Holdings of Ocean County

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

- Construction filters are still in units and are dirty
- GRD DOES NOT MATCH INSTALLATION
- KITCHE MISSING DAMPERS
- RTU OUTSIDE AIR INTAKES

06-05-23 FREDDY'S - TOMS RIVER, NJ

Project Issue Information

Issue Name :	Construction filters are still in units and are dirty		
Description :	Recommended to replace with merv8 final filters.		
Created By :	National TAB	**Assigned To :**	National TAB - Will Turnbough
Status :	Open		
Originated Date :	06/28/2023 - Ian Fuller - National TAB		

06-05-23 FREDDY'S - TOMS RIVER, NJ

Project Issue Information

Issue Name :	GRD DOES NOT MATCH INSTALLATION		
Description :	TECH NOTICED A DIFFUSER MISSING IN THE KITCHEN (RTU1). GC SAID THERE WAS A DIFFUSER NOT INSTALLED PER PLANS. RECCOMEND PRODUCING A CURRENT GRD OF WHAT IS ACTUALLY INSTALLED.		
Created By :	National TAB	**Assigned To :**	National TAB - Brianna Biggs
Status :	Open		
Originated Date :	06/27/2023 - Sergio Del Toro - National TAB		

06-05-23 FREDDY'S - TOMS RIVER, NJ

Project Issue Information

Issue Name :	KITCHE MISSING DAMPERS		
Description :	DIFFUSERS ARE MISSING DAMPERS IN KITCHEN.		
Created By :	National TAB	**Assigned To :**	National TAB - Brianna Biggs
Status :	Open		
Originated Date :	06/27/2023 - Sergio Del Toro - National TAB		

06-05-23 FREDDY'S - TOMS RIVER, NJ

Project Issue Information

Issue Name : RTU OUTSIDE AIR INTAKES

Description : RTU 1 AND RTU 2 NEED OUTSIDE AIR INTAKES TO PRODUCE SUCCESSFUL TAB. ISSUE IS AFFECTING BUILDING PRESSURIZATION AND TOTAL AIRFLOW.

Created By : National TAB

Assigned To : National TAB - Brianna Biggs

Status : Open

Originated Date : 06/27/2023 - Sergio Del Toro - National TAB

Project Issue Response Details

- **06/28/2023 National TAB - Ian Fuller**
  - Issue Resolved

CheckList List

- TECH - STEP 1: INITIAL WALKTHROUGH
- TECH - STEP 2: UNIT DATA AND EVAL
- TECH - STEP 3: TEST, ADJUST AND BALANCE
- TECH - STEP 4: FINAL TESTS

06-05-23 FREDDY'S - TOMS RIVER, NJ

CheckList Information

Name :	TECH - STEP 1: INITIAL WALKTHROUGH	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	06/01/2023 - Brianna Biggs - National TAB		
Completed Date :	06/28/2023 - Ian Fuller - National TAB		

CheckList Item Details

INITIAL SITE WALKTHROUGH

All diffusers and grilles are installed and match design?

Comment:

NO

All hood filters installed and accounted for?

Comment:

YES

Hoods are wired and have power?

Comment:

YES

Hood is free of alarms?

Comment:

YES

Thermostats have power?

Comment:

YES

Have trades/general contractor been notified about any issues and are they created on FaciliBuild?

Comment:

YES

06-05-23 FREDDY'S - TOMS RIVER, NJ

CheckList Information

Name :	TECH - STEP 2: UNIT DATA AND EVAL	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	06/01/2023 - Brianna Biggs - National TAB		
Completed Date :	06/28/2023 - Ian Fuller - National TAB		

CheckList Item Details

UNIT DATA AND EVALUATION WHILE GATHERING UNIT DATA CHECK THE FOLLOWING:

RTU's/AHU's

Economizers are assembled and functional?

Comment:

(RESOLVED) NO

DCV Max damper opening position is set to minimum?

Comment:

NO

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

Comment:

NO

Motors are all operating below the FLA rating?

Comment:

YES

Are belts tight?

Comment:

YES

If direct drive unit is the speed controller working.

Comment:

YES

Is gas piping installed and valves turned on?

Comment:

YES

Unit free of noticeable noise and vibration

Comment:

YES

EF's

Rotation is correct?

Comment:

YES

Belts are tight?

Comment:

YES

Grease cup installed on hood fan?

Comment:

YES

Hinge kit installed installed on hood fan?

Comment:

YES

Lean fan back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?

Comment:

YES

Flex conduit is long enough so that fan can be completely tilted back?

Comment:

YES

There is no major leakage around base of fan?

Comment:

YES

Is the motor operating below the motor FLA rating?

Comment:

YES

For restroom fan(s) is the back draft damper installed and can it fully open?

Comment:

YES

Unit free of noticeable noise and vibration?

Comment:

YES

MUA

Rotation is correct?

Comment:

YES

Gas piping is installed and valves are in on position?

Comment:

YES

Heater tested and is functional?

Comment:

YES

Internal motorized damper is fully opening?

Comment:

YES

Motor is operating below the FLA rating?

Comment:

YES

Unit free of noticeable noise and vibration?

Comment:

YES

HOODS

Kitchen equipment installed in proper places?

Comment:

YES

Can kitchen equipment be turned on for final smoke test?

Comment:

YES

Griddle is completely centered underneath hood?

Comment:

YES

DOCUMENTATION

Have trades/general contractor been notified about any issues and are they created on FaciliBuild?

Comment:

YES

PICTURES TAKEN OF:

All Issues

Comment:

YES

Each Piece of equipment

Comment:

YES

Each Hood

Comment:

YES

Front of Store

Comment:

YES

06-05-23 FREDDY'S - TOMS RIVER, NJ

CheckList Information

Name :	TECH - STEP 3: TEST, ADJUST AND BALANCE	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	06/01/2023 - Brianna Biggs - National TAB		
Completed Date :	06/28/2023 - Ian Fuller - National TAB		

CheckList Item Details

TEST, ADJUST, AND BALANCE ALL EQUIPMENT:

DURING TESTING MAKE NOTE OF THE FOLLOWING:

Is space free of drafting?

Comment:

(RESOLVED) NO

Is space comfortable in all areas?

Comment:

(RESOLVED) NO

Is the space free of ventilation noise?

Comment:

NO

If deviations from design were necessary to resolve 1-3 what were they? Otherwise put "NA".

Comment:

NA

06-05-23 FREDDY'S - TOMS RIVER, NJ

CheckList Information

Name :	TECH - STEP 4: FINAL TESTS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	06/01/2023 - Brianna Biggs - National TAB		
Completed Date :	06/28/2023 - Ian Fuller - National TAB		

CheckList Item Details

FINAL TESTS

HOOD CAPTURE TEST

List equipment turned on for testing

Comment:

GRIDDLE, FRYER

List smoke candle type used

Comment:

45 SECOND

Smoke test capture - Perimeter of hood

Comment:

YES

Smoke test capture - Top of cooking surface

Comment:

YES

WITNESS

Date test was completed	06/06/2023

Comment:

TAB tech name / Firm

Comment:

SERGIO DEL TORO

Site super name / Firm

Comment:

NA

Owner representative name / Firm (if Applicable)

Comment:

NA

Building pressure at front & back doors (All Systems On)

Comment:

NA

ADDITIONAL

Do actual net building airflow, design net building airflow, and pressure coincide? If not why? (All three should either be positive or negative)

Comment:

(RESOLVED) NO. REFER TO ISSUES.

Thermostats are programmed?

Comment:

YES

Thermostats Schdedules: Program all thermostats to following settings:

All three thermostats have correct time/date? (if not set correctly)

Comment:

YES

Occupied Time: 8am-11:55pm

Comment:

YES

Occupied Fan ON

Comment:

YES

Occupied cooling 74

Comment:

YES

Occupied heating 68

Comment:

YES

Unoccupied Time 11:55pm-8am

Comment:

YES

Unoccupied Fan Auto

Comment:

YES

Unoccupied cooling 79

Comment:

YES

Unoccupied heating 63

Comment:

YES

Set a Partial Screen Lock for Thermostats (i.e., make sure temperature is adjustable but not schedule)

Comment:

YES

Password is set to 999 for Partial Screen Lock?

Comment:

YES

RTU Economizers

Note: These instructions are for Lennox units. There are similar settings for other OEMs. Call office for assistance if needed.

Enthalpy is set to "D" for all three units

Comment:

NA- CARRIER UNITS

"DCV Set" dials turned all the way to the left (counter clockwise)

Comment:

-

"DCV Max" dials turned all the way to the left (counter clockwise)

Comment:

-

National TAB

Project: 06-05-23 FREDDY'S - TOMS RIVER, NJ

System/Unit: AHU/RTU

Asset: RTU1 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	LENNOX	CARRIER
Serial Num	-	3422P09850
Model Num	LGH150H4M	48HCFE14K3M5A6U3J0
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	22.5X25.5
Num Final Filter 1	-	4
Final Filter Size 1	-	18X24X2

Motor Data		
	Design	**Actual**
Motor MFG	-	MARATHON
Frame	-	145TZ
Horsepower	5	NA
Motor Rpm	-	1745
Phase	3	3
Rated Voltage	208	230V
Rated Amperage	-	14A

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	5"
Motor Bore Size	-	3/4"
Motor Sheave SetPt	-	5 TURNS OUT
Fan Sheave Size	-	7"
Fan Sheave Bore	-	1"
Belt CL Distance	-	17"
Num of Belts	-	1
Belt Size	-	AX49
Belt Alignment	-	CORRECT

Test Data		
	Design	**Actual**
SF CFM	5000	5381
SF RPM	-	NA
RA CFM	4145	4443
OA CFM	855	938
RL Voltage	-	210.7/210.8/212.1V
RL Amperage	-	10.6/10.7/11.3A
SF Rotation	-	CORRECT
RA Damper Position	-	8.0V
Min OA Damper Position	-	2.0V
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	ES3

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-1.55"
Fan Suction SP	-	-1.91"
Fan Discharge SP	-	0.66"
Total ESP	1.0"	2.21"
Fan Total SP	-	2.57"

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

Completed By: Sergio Del Toro on 06/27/2023

Notes:
NO OUTSIDE AIR INTAKE INSTALLED. GC SAID GRD DOES NOT MATCH UP TO INSTALLED-DIFFUSERS. DURING CONSTRUCTION A DIFFUSER WAS NOT INSTALLED PER PLANS.

Written By: Sergio Del Toro on 06/27/2023

National TAB

Project:06-05-23 FREDDY'S - TOMS RIVER, NJ

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	SD2	12"	450	1	236	236	341	75.8
SGRD2	KITCHEN	SD2	12"	450	1	382	382	561	124.7
SGRD3	KITCHEN	SD3	12"	450	1	604	604	857	190.4
SGRD4	KITCHEN	SD3	12"	450	1	340	340	509	113.1
SGRD5	KITCHEN	SD2	12"	450	1	396	396	572	127.1
SGRD6	KITCHEN	SD2	12"	450	1	314	314	492	109.3
SGRD7	KITCHEN	SD3	12"	450	1	266	266	381	84.7
SGRD8	KITCHEN	SD2	12"	450	0	0	0	0	0.0
SGRD9	KITCHEN	SD3	12"	450	1	556	556	551	122.4
SGRD10	HOOD 1	ACPSP	8"	505	1	521	521	648	128.3
SGRD11	HOOD 2	ACPSP	8"	276	1	293	293	303	109.8
SGRD12	OFFICE	SD4	8"	155	1	101	101	166	107.1
Total				4986		4009	4009	5381	107.92%

National TAB

Project: 06-05-23 FREDDY'S - TOMS RIVER, NJ

System/Unit: AHU/RTU

Asset: RTU2 AREA:DINING

Unit Data		
	Design	**Actual**
MFG	LENNOX	CARRIER
Serial Num	-	3522P62150
Model Num	LGH120H4M	48HCFE12K3M5A6U3J0
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	35X19.25
Num Final Filter 1	-	4
Final Filter Size 1	-	18X24X2

Motor Data		
	Design	**Actual**
Motor MFG	-	MARATHON
Frame	-	145TZ
Horsepower	5	NA
Motor Rpm	-	1745
Phase	3	3
Rated Voltage	208	230V
Rated Amperage	-	14A

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	5"
Motor Bore Size	-	3/4"
Motor Sheave SetPt	-	5 TURNS OUT
Fan Sheave Size	-	7"
Fan Sheave Bore	-	1"
Belt CL Distance	-	17"
Num of Belts	-	1
Belt Size	-	AX49
Belt Alignment	-	CORRECT

Test Data		
	Design	**Actual**
SF CFM	4000	3798
SF RPM	-	NA
RA CFM	3194	3064
OA CFM	806	734
RL Voltage	-	211.9/213.5/213.7V
RL Amperage	-	11.1/11.7/13.5A
SF Rotation	-	CORRECT
RA Damper Position	-	NA
Min OA Damper Position	-	NA
Min OA Damper Type	-	NA
OA Enthalpy Setpt	-	NA

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-1.79"
Fan Suction SP	-	-2.31"
Fan Discharge SP	-	0.69"
Total ESP	1.6"	2.48"
Fan Total SP	-	3.00"

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

Completed By: Sergio Del Toro on 06/27/2023

Notes:
NO OUTSIDE AIR INTAKE INSTALLED.

Written By: Sergio Del Toro on 06/27/2023

National TAB

Project:06-05-23 FREDDY'S - TOMS RIVER, NJ

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	SD1	12"	380	1	261	306	366	96.3
SGRD2	DINING	SD1	12"	380	1	205	243	356	93.7
SGRD3	DINING	SD1	12"	380	1	206	234	343	90.3
SGRD4	DINING	SD1	12"	380	1	340	414	391	102.9
SGRD5	DINING	SD1	12"	380	1	315	382	364	95.8
SGRD6	DINING	SD1	12"	380	1	284	340	364	95.8
SGRD7	DINING	SD1	12"	380	1	243	268	354	93.2
SGRD8	DINING	SD1	12"	380	1	287	355	410	107.9
SGRD9	DINING	SD1	12"	380	1	251	311	357	93.9
SGRD10	DINING	SD1	12"	380	1	223	273	330	86.8
SGRD11	DINING	SD5	6"	50	1	49	45	53	106.0
SGRD12	RESTROOM	SD5	6"	65	1	11	31	42	64.6
SGRD13	RESTROOM	SD5	6"	65	1	53	61	68	104.6
Total				3980		2728	3263	3798	95.43%

National TAB

Project: 06-05-23 FREDDY'S - TOMS RIVER, NJ

System/Unit: FAN - Exhaust

Asset: EF1 AREA:RESTROOM

Unit Data		
	Design	**Actual**
MFG	COOK	COOK
Model Num	GC-146	GC-146
Serial Num	-	5294139
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Frame	-	NA
Horsepower	30.3	1/3
Motor Rpm	-	2000
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	4.3A
Service Factor	-	NA

Test Data		
	Design	**Actual**
CFM	75	69
Fan RPM	900	NA
Fan Rotation	-	YES
Motor RPM	-	NA
System SetPt	-	100%
RL Voltage	-	NA
RL Amperage	-	3.7A
Total ESP	0.25"	0.29"
Fan Inlet SP	-	-0.29"
Fan Discharge SP	-	ATM

Completed By: Sergio Del Toro on 06/27/2023

National TAB

Project: 06-05-23 FREDDY'S - TOMS RIVER, NJ

System/Unit: FAN - Exhaust

Asset: EF2 AREA:RESTROOM

Unit Data		
	Design	**Actual**
MFG	COOK	COOK
Model Num	GC-146	GC-146
Serial Num	-	5294139
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Frame	-	NA
Horsepower	30.3W	1/3
Motor Rpm	-	2000
Phase	1	1
Voltage (rated)	120	115V
Amperage (rated)	-	4.3A
Service Factor	-	NA

Test Data		
	Design	**Actual**
CFM	75	72
Fan RPM	900	NA
Fan Rotation	-	YES
Motor RPM	-	NA
System SetPt	-	100%
RL Voltage	-	NA
RL Amperage	-	3.8A
Total ESP	0.25"	0.33"
Fan Inlet SP	-	-0.33"
Fan Discharge SP	-	ATM

Completed By: Sergio Del Toro on 06/27/2023

National TAB

Project: 06-05-23 FREDDY'S - TOMS RIVER, NJ

System/Unit: FAN - Exhaust

Asset: KEF1 AREA:HOOD 1

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	CASRE18DD	CASRE18DD
Serial Num	-	5294139
Type	UTILITY	UTILITY
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TECO
Frame	-	145T
Horsepower	1	1
Motor Rpm	-	1150
Phase	3	3
Voltage (rated)	208	230V
Amperage (rated)	-	3.44A
Service Factor	-	1.15

Test Data		
	Design	**Actual**
CFM	1600	1563
Fan RPM	1107	NA
Fan Rotation	-	CORRECT
Motor RPM	-	NA
System SetPt	-	57.8HZ
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	1.5"	0.92"
Fan Inlet SP	-	-0.92"
Fan Discharge SP	-	ATM

Completed By: Sergio Del Toro on 06/27/2023

National TAB

Project: 06-05-23 FREDDY'S - TOMS RIVER, NJ

System/Unit: FAN - Exhaust

Asset: KEF2 AREA:HOOD 2

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU50HFA	DU50HFA
Serial Num	-	5294139
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Frame	-	NA
Horsepower	0.5	1/2
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	3.8A
Service Factor	-	NA

Test Data		
	Design	**Actual**
CFM	875	880
Fan RPM	1532	NA
Fan Rotation	-	CORRECT
Motor RPM	-	NA
System SetPt	-	75%
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	1.250"	0.71"
Fan Inlet SP	-	-0.71"
Fan Discharge SP	-	ATM

Completed By: Sergio Del Toro on 06/27/2023

National TAB

Project: 06-05-23 FREDDY'S - TOMS RIVER, NJ

System/Unit: FAN - Exhaust

Asset: KEF3 AREA:HOOD 3

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU33HFA	DU33HFA
Serial Num	-	5294139
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Frame	-	NA
Horsepower	0.333	1/3
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	4.3A
Service Factor	-	NA

Test Data		
	Design	**Actual**
CFM	525	521
Fan RPM	1487	798
Fan Rotation	-	CORRECT
Motor RPM	-	NA
System SetPt	-	45
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	0.80"	0.42"
Fan Inlet SP	-	-0.42"
Fan Discharge SP	-	ATM

Completed By: Sergio Del Toro on 06/27/2023

National TAB

Project: 06-05-23 FREDDY'S - TOMS RIVER, NJ

System/Unit: FAN - Supply

Asset: MUA1 AREA:COOKLINE

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	A1-D.500-15D-MPU	A1-D.500-15D-MPU
Serial Num	-	5294139
Type	MUA	MUA'
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TECO
Frame	-	145T
Horsepower	3	3
Motor Rpm	-	3480
Phase	3	3
Voltage (rated)	208	230V
Amperage (rated)	-	7.64A
Service Factor	-	1.15

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	-	0.36"

Test Data		
	Design	**Actual**
CFM	1980	2018
SF RPM	2230	NA
Motor RPM	-	NA
SF System SetPt	-	71.5HZ
RL Voltage	-	179V
RL Amperage	-	5.3A
Total ESP	-	0.41"
Fan Discharge SP	-	0.41"

General		
	Design	**Actual**
Fan Rotation Correct	-	YES

Completed By: Sergio Del Toro on 06/27/2023

National TAB

Project: 06-05-23 FREDDY'S - TOMS RIVER, NJ

System/Unit: Kitchen Hood Type I

Asset: HD1 AREA:GRIDDLE

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 ND-2-ACPSP-F	5424 ND-2-ACPSP-F
Job / Serial Num	-	5294139
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	96	96
Hood Width	54	54
Supply Plenum Type	-	ACPSP
Supply Plenum Width	14	14
Supply Plenum Length	108	108

Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	16X16	16X16
Filter Qty 1	5	5
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	8.1	8.1
Filter1 FPM	-	180
Filter2 FPM	-	191
Filter3 FPM	-	201
Filter4 FPM	-	204
Filter5 FPM	-	191
Filter Ave FPM(corr)	-	191
CFM	1600	1563

Cooking Equipment		
	Design	**Actual**
Item 1	-	GRIDDLE

Test Data Supply		
	Design	**Actual**
Total AK Area	10.5	10.5
Kv factor (Vel)	0.89"	0.89
Num of Readings	-	5
Reading1 FPM	-	129
Reading2 FPM	-	144
Reading3 FPM	-	127
Reading4 FPM	-	139
Reading5 FPM	-	141
Ave FPM(corr)	-	136
CFM	1280	1271

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Project: 06-05-23 FREDDY'S - TOMS RIVER, NJ

System/Unit: Kitchen Hood Type I

Asset: HD2 AREA:FRYER

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 ND-2-ACPSP-F	5424 ND-2-ACPSP-F
Job / Serial Num	-	5294139
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	60	60
Hood Width	54	54
Supply Plenum Type	-	ACPSP
Supply Plenum Width	14	14
Supply Plenum Length	60	60

Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	16X16	16X16
Filter Qty 1	3	3
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	4.86	4.86
Filter1 FPM	-	182
Filter2 FPM	-	191
Filter3 FPM	-	170
Filter Ave FPM(corr)	-	181
CFM	875	880

Cooking Equipment		
	Design	**Actual**
Item 1	-	FRYER

Test Data Supply		
	Design	**Actual**
Total AK Area	5.83	5.83
Kv factor (Vel)	0.89	0.89
Num of Readings	-	3
Reading1 FPM	-	151
Reading2 FPM	-	147
Reading3 FPM	-	134
Ave FPM(corr)	-	144
CFM	700	747

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National TAB

Project: 06-05-23 FREDDY'S - TOMS RIVER, NJ

System/Unit: Kitchen Hood Type II

Asset: HD3 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	4224 VHB-G	4224 VHB-G
Serial Num	-	5294139
Type	TYPE II CANOPY	TYPE II CANOPY
Hood length	42	42
Hood Width	42	42

Test Data		
	Design	**Actual**
Exhaust CFM	525	521

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