Report By:

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

NATIONAL TAB

Comfort. Under control.

Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 04/05/2023

PROJECT

03-27-23 FREDDY'S - JASPER, AL

HIGHWAY 78

JASPER , AL 35501

Client

ERC Development, LLC

National TAB

Project: 03-27-23 FREDDY'S - JASPER, AL

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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.

DOAS w/ Diffusers

Each of the DOAS were measured at their terminal devices or via traverse to establish a total flow for that unit. Each DOAS 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.

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.

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Project Issue Information

Issue Name : Diffuser 1-2 and 1-9 incorrect grille type.

Description : Both diffusers call for a type LDA diffuser. Currently PCD type diffusers are installed. Both diffusers are missing deflector plates if PCD were to remain. Diffusers have been ordered; temporary ones are in.

Created By : National TAB **Assigned To :** National TAB - Will Turnbough

Status : Open

Originated Date : 03/29/2023 - Ian Fuller - National TAB

Project Issue File Details

1-9.jpeg

1-2.jpeg

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03-27-23 FREDDY'S - JASPER, AL

Project Issue Information

Issue Name : Diffuser 2-17 incorrect placement

Description : Currently diffuser 2-17 is installed on ceiling when it should be on side of the wall. Diffuser face is currently not installed.

Created By : National TAB **Assigned To :** National TAB - Will Turnbough

Status : Open

Originated Date : 03/29/2023 - Ian Fuller - National TAB

Project Issue File Details

2-17.jpeg

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03-27-23 FREDDY'S - JASPER, AL

Project Issue Information

Issue Name : DOAS2 is below design CFM.

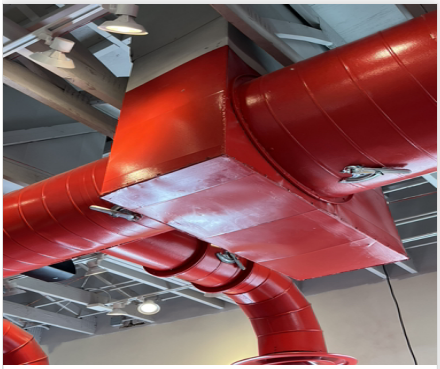
Description : Currently DOAS1 is at 3617 CFM when design is at 4800 CFM. Drop is not completely sealed off. Excessive leaking can be felt along edges of drops and around the collars of ductwork.

Created By : National TAB **Assigned To :** National TAB - Will Turnbough

Status : Open

Originated Date : 03/29/2023 - Ian Fuller - National TAB

Project Issue File Details



DOAS2Drop.jpeg

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03-27-23 FREDDY'S - JASPER, AL

Project Issue Information

Issue Name : EF1 and EF2 are above design CFM

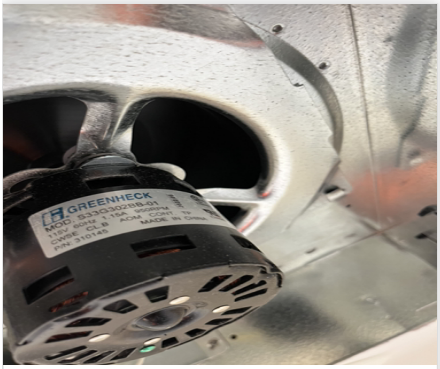
Description : EF1 is currently at 174 CFM when design is at 150 CFM (116% of design). EF2 is currently at 116 CFM when design is at 90 CFM (129% of design). Fans are not adjustable and cannot be reduced to design airflow.

Created By : National TAB **Assigned To :** National TAB - Will Turnbough

Status : Open

Originated Date : 03/30/2023 - Ian Fuller - National TAB

Project Issue File Details



EF1.jpeg

EF2.jpeg

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Project Issue Information

Issue Name : KEF1 & 2 is not secured to curb with screws.

Description : Recommended to install.

Created By : National TAB **Assigned To :** National TAB - Will Turnbough

Status : Open

Originated Date : 03/29/2023 - Ian Fuller - National TAB

Project Issue File Details

KEF2.jpeg

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03-27-23 FREDDY'S - JASPER, AL

Project Issue Information

Issue Name : KEF2 drain pipe is not centered to drain pain.

Description : Recommended to complete drain pipe into center of hole.

Created By : National TAB **Assigned To :** National TAB - Will Turnbough

Status : Open

Originated Date : 03/29/2023 - Ian Fuller - National TAB

Project Issue File Details

KEF2DrainPipe.jpeg

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03-27-23 FREDDY'S - JASPER, AL

Project Issue Information

Issue Name : KEF2 wire is not ran through conduit

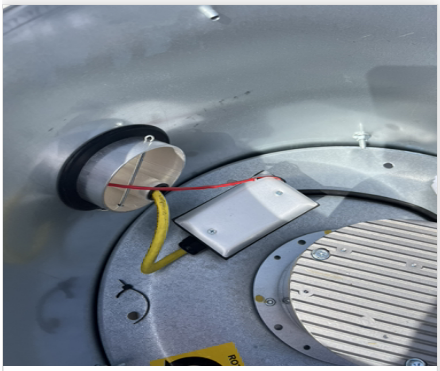
Description : Recommended to install conduit.

Created By : National TAB **Assigned To :** National TAB - Will Turnbough

Status : Open

Originated Date : 03/29/2023 - Ian Fuller - National TAB

Project Issue File Details



KEF2Conduit.jpeg

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
DOAS-1	KITCHEN	2100	2036	0	0	2100	2036	100.0%	100.0%						
DOAS-2	DINING	4800	3344	4080	2755	720	589	15.0%	17.6%						
KEF-1	HOOD 1											1600	1547		
KEF-2	HOOD 2											775	753		
EF-1	M.RESTROOM													150	174
EF-2	W.RESTROOM													90	116
TOTALS		6900	5380	4080	2755	2820	2625			0	0	2375	2300	240	290

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	2820	2625
TOTAL EXHAUST	2615	2590
NET AIRFLOW	205	35

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H20)
FRONT	0.007
SIDE	
REAR	
AVERAGE	**0.007**

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:

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03-27-23 FREDDY'S - JASPER, AL

CheckList Information

Name :	SITE PICTURES	**Status :**	Submitted
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		

CheckList Item Details

STORE FRONT

StoreFront.jpeg

DOAS-1

DOAS1.jpeg

DOAS-2

DOAS2.jpeg

KEF-1

KEF1.jpeg

KEF-2

KEF2.jpeg

EF-1

EF1.jpeg

EF-2

EF2.jpeg

HOOD-1

HOOD1.jpeg

HOOD-2

HOOD2.jpeg

Notes/Comments :

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03-27-23 FREDDY'S - JASPER, AL

CheckList Information

Name :	TECH - STEP 1: INITIAL WALKTHROUGH	**Status :**	Submitted
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		

CheckList Item Details

INITIAL SITE WALKTHROUGH

All diffusers and grilles are installed and match design?	NO. DIFFUSER 1-2 AND 1-9 DO NOT MATCH DESIGN. SUPER SAID THEY WILL BE INSTALLED ON A LATER DATE.
All hood filters installed and accounted for?	YES
Hoods are wired and have power?	YES
Hood is free of alarms?	YES
Thermostats have power?	YES
Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	YES

Notes/Comments :

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03-27-23 FREDDY'S - JASPER, AL

CheckList Information

Name :	TECH - STEP 2: UNIT DATA AND EVAL	**Status :**	NotSubmitted
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	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?	YES
DCV Max damper opening position is set to minimum?	YES
Free cooling enthalpy set point set for lowest setting (Typically "D")	YES
Motors are all operating below the FLA rating?	YES
Are belts tight?	NA
If direct drive unit is the speed controller working.	YES
Is gas piping installed and valves turned on?	Yes
Unit free of noticeable noise and vibration	YES

EF's

Rotation is correct?	YES
Belts are tight?	NA
Grease cup installed on hood fan?	YES
Hinge kit installed installed on hood fan?	YES
Lean fan back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?	YES

Flex conduit is long enough so that fan can be completely tilted back?	YES
There is no major leakage around base of fan?	NONE OBSERVED
Is the motor operating below the motor FLA rating?	YES
For restroom fan(s) is the back draft damper installed and can it fully open?	YES
Unit free of noticeable noise and vibration?	YES
MUA	
Rotation is correct?	NA
Gas piping is installed and valves are in on position?	NA
Heater tested and is functional?	NA
Internal motorized damper is fully opening?	NA
Motor is operating below the FLA rating?	NA
Unit free of noticeable noise and vibration?	NA
HOODS	
Kitchen equipment installed in proper places?	YES
Can kitchen equipment be turned on for final smoke test?	NO
Griddle is completely centered underneath hood?	YES
DOCUMENTATION	
Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	YES
PICTURES TAKEN OF:	
All Issues	YES
Each Piece of equipment	YES
Each Hood	YES
Front of Store	YES

Notes/Comments :

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03-27-23 FREDDY'S - JASPER, AL

CheckList Information

Name :	TECH - STEP 3: TEST, ADJUST AND BALANCE	**Status :**	NotSubmitted
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		

CheckList Item Details

TEST, ADJUST, AND BALANCE ALL EQUIPMENT:

DURING TESTING MAKE NOTE OF THE FOLLOWING:

Is space free of drafting?	YES
Is space comfortable in all areas?	YES
Is the space free of ventilation noise?	NO, DOAS-2 LEAKAGE CAN BE HEARD IN THE SPACE.
If deviations from design were necessary to resolve 1-3 what were they? Otherwise put "NA".	NA

Notes/Comments :

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03-27-23 FREDDY'S - JASPER, AL

CheckList Information

Name :	TECH - STEP 4: FINAL TESTS	**Status :**	NotSubmitted
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		

CheckList Item Details

FINAL TESTS	
HOOD CAPTURE TEST	
List equipment turned on for testing	NA
List smoke candle type used	45 SECOND SMOKE CANDLE
Smoke test capture - Perimeter of hood	100%
Smoke test capture - Top of cooking surface	100%
WITNESS	
Date test was completed	03/30/2023
TAB tech name / Firm	IAN FULLER / NTAB, WILLIAM P / NTAB
Site super name / Firm	LYNN
Owner representative name / Firm (if Applicable)	NA
Building pressure at front & back doors (All Systems On)	+0.007" AVG
ADDITIONAL	
Do actual net building airflow, design net building airflow, and pressure coincide? If not why? (All three should either be positive or negative)	YES
Thermostats are programmed?	YES
Thermostats Schdedules: Program all thermostats to following settings:	

All three thermostats have correct time/date? (if not set correctly)	YES
Occupied Time: 8am-11:55pm	YES
Occupied Fan ON	YES
Occupied cooling 74	YES
Occupied heating 68	YES
Unoccupied Time 11:55pm-8am	YES
Unoccupied Fan Auto	YES
Unoccupied cooling 79	YES
Unoccupied heating 63	YES
Set a Partial Screen Lock for Thermostats (i.e., make sure temperature is adjustable but not schedule)	YES
Password is set to 999 for Partial Screen Lock?	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	NA
"DCV Set" dials turned all the way to the left (counter clockwise)	NA
"DCV Max" dials turned all the way to the left (counter clockwise)	NA

Notes/Comments :

National TAB

Project: 03-27-23 FREDDY'S - JASPER, AL

System/Unit: AHU/RTU

Asset: DOAS 1 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Serial Num	-	5254570
Model Num	CASRTU3-I.200-15-15T	CASRTU3-I.200-15-15T
Type	DOAS	DOAS
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	45.75X34
Num Final Filter 1	-	8
Final Filter Size 1	-	20X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	NEMA
Frame	-	145T
Horsepower	2.0	2
Motor Rpm	-	1740
Phase	3	3
Rated Voltage	208	230
Rated Amperage	-	5.48

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

Test Data		
	Design	**Actual**
SF CFM	2100	2036
SF RPM	-	54Hz
RA CFM	0	0
OA CFM	2100	2036
RL Voltage	-	212 AVG
RL Amperage	-	4.8 AVG
SF Rotation	-	CCW
RA Damper Position	-	0V
Min OA Damper Position	-	10V
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.09”
Fan Suction SP	-	-0.27”
Fan Discharge SP	-	0.26”
Total ESP	0.5"	0.35"
Fan Total SP	-	0.53"

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

Completed By: Ian Fuller

Notes:

Diffuser Supply (GRD)

DOAS 1/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	CUSTARD	PCD	10"	280	1	184	207	253	90.4
SGRD2	KITCHEN	LDA	48"	200	1	139	164	181	90.5
SGRD3	KITCHEN	PCD	10"	300	1	207	242	286	95.3
SGRD4	COOKLINE	PCD	10"	250	1	224	264	232	92.8
SGRD5	STORAGE	PCD	14"	450	1	427	491	476	105.8
SGRD6	KITCHEN	PCD	10"	300	1	204	253	271	90.3
SGRD7	OFFICE	PCD	6"	60	1	93	115	65	108.3
SGRD8	STORAGE	PCD	8"	130	1	173	196	142	109.2
SGRD9	PAY	LDA	48"	130	1	149	175	130	100.0

Completed By: Wale Odofin on

National TAB

Project: 03-27-23 FREDDY'S - JASPER, AL

System/Unit: AHU/RTU

Asset: DOAS 2 AREA:DINING

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Serial Num	-	5254570
Model Num	CASRTU3-I.200-24-12.5T	CASRTU3-I.200-24-12.5T
Type	DOAS	DOAS
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	45.75X34
Num Final Filter 1	-	8
Final Filter Size 1	-	20X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	NEMA
Frame	-	215T
Horsepower	5.0"	5
Motor Rpm	-	1165
Phase	3	3
Rated Voltage	208	230
Rated Amperage	-	14.3

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

Test Data		
	Design	**Actual**
SF CFM	4800	3344
SF RPM	-	71HZ
RA CFM	4080	2755
OA CFM	720	589
RL Voltage	-	214 AVG
RL Amperage	-	12.5 AVG
SF Rotation	-	CCW
RA Damper Position	-	5.5V
Min OA Damper Position	-	4.5V
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.62”
Fan Suction SP	-	-1.45”
Fan Discharge SP	-	1.01”
Total ESP	0.5"	1.63”
Fan Total SP	-	2.46”

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

Completed By: Ian Fuller

Notes: Diffuser balance incomplete due to excessive leakage in ductwork.

Diffuser Supply (GRD)

DOAS 2/DINING

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	DINING	CDR	10"	350	1	197	206	224	64.0
SGRD2	DINING	CDR	10"	350	1	164	193	215	61.4
SGRD3	ORDERS	CDR	10"	350	1	170	174	200	57.1
SGRD4	DINING	CDR	10"	350	1	178	186	189	54.0
SGRD5	DINING	CDR	10"	350	1	192	192	191	54.6
SGRD6	DINING	CDR	10"	350	1	216	214	220	62.9
SGRD7	VESTIBLE	CDA3CDR	9X9	300	1	92	92	131	43.7
SGRD8	DINING	CDR	10"	350	1	234	258	260	74.3
SGRD9	DINING	CDR	10"	350	1	193	237	226	64.6
SGRD10	DINING	CDR	10"	350	1	198	228	202	57.7
SGRD11	DINING	CDR	10"	350	1	303	341	260	74.3
SGRD12	PICKUP	CDR	10"	350	1	521	269	255	72.9
SGRD13	DINING	CDR	10"	350	1	464	298	265	75.7
SGRD14	DINING	CDA4	6X6	100	1	112	158	115	115.0
SGRD15	M. RR	CDB4	6X6	100	1	129	189	129	129.0
SGRD16	W. RR	CDB4	6X6	50	1	159	201	167	334.0
SGRD17	CLOSET	SRA	6X6	50	1	95	154	95	190.0

Completed By: Wale Odofin on

Asset	Notes
SGRD1	Diffuser balance incomplete due to excessive leakage in ductwork.

National TAB

Project: 03-27-23 FREDDY'S - JASPER, AL

System/Unit: FAN - Exhaust

Asset: EF1 AREA:M.RESTROOM

Unit Data		
	Design	**Actual**
MFG	COOK	GREENHECK
Model Num	GC-168	SP-B150-QD
Serial Num	-	156030281-0051
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	GREENHECK
Frame	-	N/L
Horsepower	50W	N/L
Motor Rpm	-	1050
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.8
Service Factor	-	N/L

Test Data		
	Design	**Actual**
CFM	150	174
Fan RPM	1160	MAX
Fan Rotation	-	CCW
Motor RPM	-	MAX
System SetPt	-	MAX
RL Voltage	-	121
RL Amperage	-	1.50
Total ESP	0.375'''	NA
Fan Inlet SP	-	NA
Fan Discharge SP	-	NA

Completed By: Ian Fuller

Notes: NO SPEED CONTROLLER

National TAB

Project: 03-27-23 FREDDY'S - JASPER, AL

System/Unit: FAN - Exhaust

Asset: EF2 AREA:W.RESTROOM

Unit Data		
	Design	**Actual**
MFG	COOK	GREENHECK
Model Num	GC-168	SP-B110-QD
Serial Num	-	153446158-0008
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	GREENHECK
Frame	-	N/L
Horsepower	50W	N/L
Motor Rpm	-	950
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.15
Service Factor	-	N/L

Test Data		
	Design	**Actual**
CFM	90	116
Fan RPM	1000	MAX
Fan Rotation	-	CCW
Motor RPM	-	MAX
System SetPt	-	MAX
RL Voltage	-	121
RL Amperage	-	1.2
Total ESP	0.375"	NA
Fan Inlet SP	-	NA
Fan Discharge SP	-	NA

Completed By: Ian Fuller

Notes: NO SPEED CONTROLLER

National TAB

Project: 03-27-23 FREDDY'S - JASPER, AL

System/Unit: FAN - Exhaust

Asset: KEF1 AREA:HOOD 1

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU85HFA	CASRE18DD
Serial Num	-	5254570
Type	UPBLAST	UTILITY SET
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	NEMA
Frame	-	145T
Horsepower	0.75"	1
Motor Rpm	-	1150
Phase	1	3
Voltage (rated)	115	230
Amperage (rated)	-	3.44
Service Factor	-	1.15

Test Data		
	Design	**Actual**
CFM	1600	1547
Fan RPM	1351	1056
Fan Rotation	-	CCW
Motor RPM	-	1056
System SetPt	-	55.1Hz
RL Voltage	-	215/215/214
RL Amperage	-	2.4/2.6/2.6
Total ESP	1.2"	0.58”
Fan Inlet SP	-	-0.58”
Fan Discharge SP	-	ATM

Completed By: Ian Fuller

Notes:

National TAB

Project: 03-27-23 FREDDY'S - JASPER, AL

System/Unit: FAN - Exhaust

Asset: KEF2 AREA:HOOD 2

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU50HFA	DU50HFA
Serial Num	-	5254570
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCOGREEN
Frame	-	N/L
Horsepower	1/2	0.5
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	N/L

Test Data		
	Design	**Actual**
CFM	775	753
Fan RPM	1532	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	55%
RL Voltage	-	123
RL Amperage	-	2.0
Total ESP	1.25"	0.62”
Fan Inlet SP	-	-0.62”
Fan Discharge SP	-	ATM

Completed By: Ian Fuller

Notes:

National TAB

Project: 03-27-23 FREDDY'S - JASPER, AL

System/Unit: Kitchen Hood Type I

Asset: HD1 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424ND-2	5424ND-2
Job / Serial Num	-	5254570
Type	TYPE I	TYPE 1 CANOPY
Hood length	96	96"
Hood Width	54	54"

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	-	198
Filter2 FPM	-	191
Filter3 FPM	-	202
Filter4 FPM	-	185
Filter5 FPM	-	177
Filter Ave FPM(corr)	-	191
CFM	1600	1547

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

Completed By: Ian Fuller

Notes:

National TAB

Project: 03-27-23 FREDDY'S - JASPER, AL

System/Unit: Kitchen Hood Type I

Asset: HD2 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424ND-2	5424ND-2
Job / Serial Num	-	5254570
Type	TYPE I	TYPE 1 CANOPY
Hood length	60	60"
Hood Width	54	54"

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	-	170
Filter2 FPM	-	149
Filter3 FPM	-	146
Filter Ave FPM(corr)	-	155
CFM	775	753

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

Completed By: Ian Fuller

Notes: