

Report By:

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



Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 10/03/2023

PROJECT
09-25-23 FREDDY'S BURLESON, TX

1115 N Burleson Blvd

BURLESON, TX 76028

Client

JRI Hospitality Management
621 Westport Blvd
Salina, KS 67401

National TAB

Project: 09-25-23 FREDDY'S BURLESON, TX

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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.

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

- EF2 LOW CFM/NO SPEED CONTROLLER INSTALLED
- KEF GREASE TRAPS NOT INSTALLED



09-25-23 FREDDY'S BURLESON, TX

Project Issue Information

Issue Name : EF2 LOW CFM/NO SPEED CONTROLLER INSTALLED
Description : EF-2 is low on airflow and does not have a speed controller installed.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Originated Date : 10/03/2023 - Bayley Morvant - National TAB



09-25-23 FREDDY'S BURLESON, TX

Project Issue Information

Issue Name : KEF GREASE TRAPS NOT INSTALLED
Description : KEF-1, KEF-2 AND KEF-3 DO NOT HAVE THEIR GREASE TRAPS INSTALLED ON THE ROOF.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Originated Date : 09/25/2023 - Bayley Morvant - National TAB

Project Issue File Details



KEF_1_GREASE_TRAP_ISS..
09/25/2023



KEF_3_GREASE_TRAP_ISS..
09/25/2023



KEF_2_GREASE_TRAP_ISS..
09/25/2023

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
RTU-1	DINING	4850	4911	3850	3891	1000	1020	20.6%	20.8%						
DOAS-1	KITCHEN	2650	2497	0	0	2650	2497	100.0%	100.0%						
KEF-1	GRIDDLE											1700	1603		
KEF-2	FRYER											775	797		
KEF-3	DISHES											525	537		
EF-1														75	77
EF-2														150	116
TOTALS		7500	7408	3850	3891	3650	3517			0	0	3000	2937	225	193

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	3650	3517
TOTAL EXHAUST	3225	3130
NET AIRFLOW	425	387

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H2O)
FRONT	0.005
SIDE	0.007
REAR	0.0006
AVERAGE	0.0042

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:

CheckList List

- TECH - SITE PICTURES



RTU_1
09/26/2023

DOAS-1

Comment:



DOAS_1
09/26/2023

KEF-1

Comment:



KEF_1
09/26/2023

KEF-2

Comment:



KEF_2
09/26/2023

KEF-3

Comment:



KEF_3
09/26/2023

EF-1

Comment:



EF_1
09/26/2023

EF-2

Comment:



EF_2
09/26/2023

HOOD-1

Comment:



HD_1
09/26/2023

HOOD-2

Comment:



HD_2
09/26/2023

HOOD-3

Comment:



HD_3
09/26/2023

CheckList List

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



09-25-23 FREDDY'S BURLESON, TX

CheckList Information

Name : TECH - STEP 1: INITIAL SITE WALKTHROUGH **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 09/25/2023 - Brian Turnbough - National TAB
Completed Date : 09/25/2023 - Bayley Morvant - National TAB

CheckList Item Details

INITIAL SITE WALKTHROUGH

All diffusers and grilles are installed and match design? Yes

Comment:

YES

All hood filters installed and accounted for? Yes

Comment:

YES

Hoods are wired and have power? Yes

Comment:

YES

Hood is free of alarms? Yes

Comment:

YES

Thermostats have power? Yes

Comment:

YES

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

Comment:

YES



09-25-23 FREDDY'S BURLESON, TX

CheckList Information

Name : TECH - STEP 2: UNIT DATA AND EVAL **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 09/25/2023 - Brian Turnbough - National TAB
Completed Date : 09/26/2023 - Bayley Morvant - 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

Comment:

YES

DCV Max damper opening position is set to minimum? Yes

Comment:

YES

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

Comment:

YES

Motors are all operating below the FLA rating? Yes

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?

Yes

Comment:

YES

Unit free of noticeable noise and vibration

Comment:

RTU-1 HAS VERY NOTICABLE NOISE WHEN FIRST TURNING ON FAN.

EF's

Rotation is correct?

Yes

Comment:

YES

Belts are tight?

Comment:

NA

Grease cup installed on hood fan?

Comment:

NO, KEF-1, KEF-2 AND KEF-3 DO NOT HAVE GREASE CUPS INSTALLED. ISSUES HAVE BEEN MADE ON FACILIBUILD NAD GC HAS BEEN NOTIFIED.

Hinge kit installed installed on hood fan?

Comment:

KEF-2 HAS HINGE KIT BUT KEF-1 ONLY HAS A HINGE KIT ON THE FAN MOTOR AND FAN, NOT ON THE WHOLE FAN HOUSING. KEF-3 IS THE DISH HOOD FAN, BUT ALSO DOES NOT HAVE A HINGE KIT INSTALLED.

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

Comment:

ON KEF-2 YES, UNABLE TO VERIFY DUCT BELOW KEF-1 AND KEF-3.

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

Yes

Comment:

YES

There is no major leakage around base of fan?

No

Comment:

NO

Is the motor operating below the motor FLA rating?

Yes

Comment:

YES

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

N/A

Comment:

UNABLE TO VERIFY DUE TO SHEET ROCK CEILING

Unit free of noticeable noise and vibration?

Yes

Comment:

YES

MUA

Rotation is correct?

N/A

Comment:

NA

Gas piping is installed and valves are in on position?

N/A

Comment:

NA

Heater tested and is functional?

N/A

Comment:

NA

Internal motorized damper is fully opening?

N/A

Comment:

NA

Motor is operating below the FLA rating?

N/A

Comment:

NA

Unit free of noticeable noise and vibration?

N/A

Comment:

NA

HOODS

Kitchen equipment installed in proper places?

Yes

Comment:

YES.

Can kitchen equipment be turned on for final smoke test?

No

Comment:

NO

DOCUMENTATION

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

Yes

Comment:

YES



09-25-23 FREDDY'S BURLESON, TX

CheckList Information

Name : TECH - STEP 3: TEST, ADJUST AND BALANCE **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 09/25/2023 - Brian Turnbough - National TAB
Completed Date : 09/25/2023 - Bayley Morvant - National TAB

CheckList Item Details

TEST, ADJUST, AND BALANCE ALL EQUIPMENT:

DURING TESTING MAKE NOTE OF THE FOLLOWING:

Is space free of drafting? Yes

Comment:

YES

Is space comfortable in all areas? Yes

Comment:

YES

Is the space free of ventilation noise?

Comment:

YES, EXCEPT FOR THE NOISE CREATED BY RTU-1 WHEN FIRST STARTING THE FAN. OTHERWISE IT IS FREE OF NOISE.

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

Comment:

NA



09-25-23 FREDDY'S BURLESON, TX

CheckList Information

Name : TECH - STEP 4: FINAL TESTS **Status :** Not Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 09/25/2023 - Brian Turnbough - National TAB

CheckList Item Details

FINAL TESTS

HOOD CAPTURE TEST

- [Open](#) HD1_SMOKE_TEST.mp4
09/26/2023
- [Open](#) HD2_SMOKE_TEST.mp4
09/26/2023

List equipment turned on for testing

Comment:

Two flat top grilles for Hood-1 and two fryers for Hood-2.

List smoke candle type used

Comment:

45 SECOND SMOKE CARTRIDGE

Smoke test capture - Perimeter of hood

Comment:

100%

Smoke test capture - Top of cooking surface

Comment:

100%

WITNESS

Date test was completed

09/26/2023

Comment:

TAB tech name / Firm

Comment:

Bayley Morvant / National TAB Intelligence

Site super name / Firm

Comment:

Site super was not on site during test. Mark / ACCELL

Owner representative name / Firm (if Applicable)

Comment:

NA

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

Comment:

FRONT DOOR: 0.005 BACK DOOR: 0.0006

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:

YES

Thermostats are programmed?

Yes

Comment:

YES

National TAB

Project: 09-25-23 FREDDY'S BURLESON, TX

System/Unit: AHU/RTU



Asset: DOAS1

AREA:KITCHEN

Unit Data		
	Design	Actual
MFG	CaptiveAire	CaptiveAire
Serial Num	-	5457831
Model Num	CASRTU3-I.250-15-15T-DOAS	CASRTU3-I.250-15-15T-DOAS
Type	DOAS	DOAS
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	4
OA Filter Size 1	-	16x25x2
Num Final Filter 1	-	8
Final Filter Size 1	-	20x25x2

Motor Data		
	Design	Actual
Motor MFG	-	TECO
Frame	-	145T
Horsepower	2.00	2
Motor Rpm	-	1740
Phase	3	3
Rated Voltage	208	230
Rated Amperage	-	5.48

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

Electrical		
	Design	Actual
VFD Max Setpt	-	60.0 Hz

Test Data		
	Design	Actual
SF CFM	2650	2497
SF RPM	-	DIRECT DRIVE
RA CFM	0	0
OA CFM	2650	2497
RL Voltage	-	208/206/207
RL Amperage	-	5.1/5.0/5.0
SF Rotation	-	CCW
RA Damper Position	-	CLOSED
Min OA Damper Position	-	100%
Min OA Damper Type	-	OPPOSED BLADE

Performance Data		
	Design	Actual
OA Temp (db/wb)	-	92F / 77F
RA Temp (db/wb)	-	70F / 61F
SA Temp (db/wb)	-	61F / 54F

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	YES

Completed By: Bayley Morvant on 09/26/2023

National TAB
 Project:09-25-23 FREDDY'S BURLESON, TX
AHU/RTU



Diffuser Supply (GRD)

DOAS1/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
DOAS1-SGRD1	KITCHEN	SD-3	10"	275		180	216	249	90.5
DOAS1-SGRD2	KITCHEN	SD-3	10"	275		225	261	251	91.3
DOAS1-SGRD3	KITCHEN	SD-3	10"	275		236	272	272	98.9
DOAS1-SGRD4	KITCHEN	SD-3	10"	275		204	238	250	90.9
DOAS1-SGRD5	KITCHEN	SD-3	10"	275		238	278	262	95.3
DOAS1-SGRD6	KITCHEN	SD-3	10"	275		238	271	272	98.9
DOAS1-SGRD7	KITCHEN	SD-3	10"	275		264	300	249	90.5
DOAS1-SGRD8	KITCHEN	SD-3	10"	275		229	262	269	97.8
DOAS1-SGRD9	KITCHEN	SD-2	8"	100		110	136	96	96.0
DOAS1-SGRD10	KITCHEN	SD-3	10"	275		215	241	248	90.2
DOAS1-SGRD11	KITCHEN	SD-4	8"	75		28	19	79	105.3
Total				2650		2167	2494	2497	94.23%

National TAB

Project: 09-25-23 FREDDY'S BURLESON, TX

System/Unit: AHU/RTU



Asset: RTU1

AREA:DINING

Unit Data		
	Design	Actual
MFG	CaptiveAire	TRANE
Serial Num	-	221210816D
Model Num	CASRTU3-1.250-15-15T-DOAS	YHD150G3RLD18D0C1A200B0AA
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	60X17X1
Num Final Filter 1	-	4
Final Filter Size 1	-	20X20X2
Num Final Filter 2	-	4
Final Filter Size 2	-	20X25X2

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	5	3
Motor Rpm	-	1725
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	9.4

Drive Data		
	Design	Actual
Motor Sheave Size	-	3.75"
Motor Bore Size	-	0.875"
Fan Sheave Size	-	10.75"
Fan Sheave Bore	-	1.25"
Belt CL Distance	-	22.25"
Num of Belts	-	1
Belt Size	-	BX68

Test Data		
	Design	Actual
SF CFM	4850	4911
SF RPM	-	579
RA CFM	3850	3891
OA CFM	1000	1020
RL Voltage	-	206/206/207
RL Amperage	-	6.2/5.9/6.0
SF Rotation	-	CW
RA Damper Position	-	90% OPEN
Min OA Damper Position	-	10% OPEN
Min OA Damper Type	-	SINGLE BLADE

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.24"
Fan Suction SP	-	-0.43"
Fan Discharge SP	-	0.34"
Total ESP	1.0	0.58"

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	YES

Completed By: Bayley Morvant on 09/26/2023

National TAB

Project:09-25-23 FREDDY'S BURLESON, TX

AHU/RTU



Diffuser Supply (GRD)

RTU1/DINING

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
RTU1-SGRD1	DINING	SD-1	12"	520	586	516	99.2
RTU1-SGRD2	DINING	SD-1	12"	520	542	526	101.2
RTU1-SGRD3	DINING	SD-1	12"	500	661	498	99.6
RTU1-SGRD4	DINING	SD-1	12"	500	513	531	106.2
RTU1-SGRD5	DINING	SD-1	12"	520	466	487	93.7
RTU1-SGRD6	DINING	SD-1	12"	520	490	518	99.6
RTU1-SGRD7	DINING	SD-1	14"	520	550	504	96.9
RTU1-SGRD8	DINING	SD-1	12"	500	502	549	109.8
RTU1-SGRD9	DINING	SD-1	12"	500	515	534	106.8
RTU1-SGRD10	RR	SD-5	6"	100	82	102	102.0
RTU1-SGRD11	HALL	SD-5	6"	100	83	91	91.0
RTU1-SGRD12	RR	SD-5	6"	50	93	55	110.0
Total				4850	5083	4911	101.26%

National TAB

Project: 09-25-23 FREDDY'S BURLESON, TX

System/Unit: FAN - Exhaust



Asset: EF1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	BROAN
Model Num	CASRE18DD	L100
Serial Num	-	32A09H
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	75	77
Fan RPM	-	DIRECT DRIVE
Fan Rotation	-	CW
Motor RPM	-	DIRECT DRIVE
System SetPt	-	*1
RL Voltage	-	120
RL Amperage	-	0.4
Total ESP	0.25	0.01"
Fan Inlet SP	-	-0.01"
Fan Discharge SP	-	*2

Motor Data		
	Design	Actual
Motor MFG	-	NA
Frame	-	NA
Horsepower	30.3W	NA
Motor Rpm	-	NA
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	1.1
Service Factor	-	NA

Completed By: Bayley Morvant on 09/25/2023

Notes:

*1 NO SPEED CONTROLLER INSTALLED.

*2 NO ACCESS TO DISCHARGE DUCT DUE TO SHEET ROCK CEILING.

Written By: Bayley Morvant on 09/25/2023

National TAB

Project: 09-25-23 FREDDY'S BURLESON, TX

System/Unit: FAN - Exhaust



Asset: EF2

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	BROAN
Model Num	CASRE18DD	L200E-A
Serial Num	-	32D13H
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	NA
Frame	-	NA
Horsepower	63.3W	NA
Motor Rpm	-	NA
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	0.5
Service Factor	-	NA

Test Data		
	Design	Actual
CFM	150	116
Fan RPM	-	DIRECT DRIVE
Fan Rotation	-	CW
Motor RPM	-	DIRECT DRIVE
System SetPt	-	*1
RL Voltage	-	121
RL Amperage	-	0.4
Total ESP	0.25	0.02"
Fan Inlet SP	-	-0.02"
Fan Discharge SP	-	*2

Completed By: Bayley Morvant on 09/25/2023

Notes:
 *1 NO SPEED CONTROLLER INSTALLED. FAN IS OPERATING AT 77% OF DESIGN.
 *2 NO ACCESS TO DISCHARGE DUCT DUE TO SHEET ROCK CEILING.

Written By: Bayley Morvant on 09/25/2023

National TAB

Project: 09-25-23 FREDDY'S BURLESON, TX

System/Unit: FAN - Exhaust



Asset: KEF1

AREA:GRIDDLE

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	CASRE18DD	CASRE18DD
Serial Num	-	5457831
Type	UTILITY	UTILITY
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TECO
Frame	-	145T
Horsepower	1.000	1.00
Motor Rpm	-	1150
Phase	3	3
Voltage (rated)	208	230
Amperage (rated)	-	3.44
Service Factor	-	NA

Test Data		
	Design	Actual
CFM	1600	1603
Fan RPM	-	DIRECT DRIVE
Fan Rotation	-	CCW
Motor RPM	-	DIRECT DRIVE
System SetPt	-	57.9 HZ
RL Voltage	-	210/210/209
RL Amperage	-	3.4/3.1/3.4
Total ESP	1.400	0.60"
Fan Inlet SP	-	-0.60"
Fan Discharge SP	-	ATM

Completed By: Bayley Morvant on 09/25/2023

Notes:
SERVES HD-1.

Written By: Bayley Morvant on 09/25/2023

National TAB

Project: 09-25-23 FREDDY'S BURLESON, TX

System/Unit: FAN - Exhaust



Asset: KEF2

AREA:FRYER

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	CASRE18DD	DU50HFA
Serial Num	-	5457831
Type	UPBLAST/CEILING	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TELCO
Frame	-	NA
Horsepower	0.500	1/2
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	6.3
Service Factor	-	NA

Test Data		
	Design	Actual
CFM	775	797
Fan RPM	-	DIRECT DRIVE
Fan Rotation	-	CCW
Motor RPM	-	DIRECT DRIVE
System SetPt	-	59%
RL Voltage	-	121
RL Amperage	-	2.5
Total ESP	1.250	0.51"
Fan Inlet SP	-	-0.51"
Fan Discharge SP	-	ATM

Completed By: Bayley Morvant on 09/25/2023

Notes:
SERVES HD-2.

Written By: Bayley Morvant on 09/25/2023

National TAB

Project: 09-25-23 FREDDY'S BURLESON, TX

System/Unit: FAN - Exhaust



Asset: KEF3

AREA:DISHWASHER

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU33HFA	DU33HFA
Serial Num	-	5457831
Type	UPBLAST/CEILING	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TELCO
Frame	-	NA
Horsepower	2.000	1/3
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	4.3
Service Factor	-	NA

Test Data		
	Design	Actual
CFM	525	537
Fan RPM	-	864
Fan Rotation	-	CCW
Motor RPM	-	864
System SetPt	-	48%
RL Voltage	-	122
RL Amperage	-	0.7
Total ESP	0.800	0.09"
Fan Inlet SP	-	-0.09"
Fan Discharge SP	-	ATM

Completed By: Bayley Morvant on 09/25/2023

Notes:
SERVES HD-3.

Written By: Bayley Morvant on 09/25/2023

National TAB

Project: 09-25-23 FREDDY'S BURLESON, TX

System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:GRIDDLE

Unit Data		
	Design	Actual
MFG	CaptiveAire	CaptiveAire
Model Num	5424ND-2	5424ND-2
Job / Serial Num	-	5457831
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	96"	96"
Hood Width	54"	54"

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO FILTER	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	-	190
Filter2 FPM	-	204
Filter3 FPM	-	226
Filter4 FPM	-	192
Filter5 FPM	-	182
Filter Ave FPM(corr)	-	198
CFM	1600	1603

Cooking Equipment		
	Design	Actual
Item 1	-	FLATTOP GRILLE
Item 2	-	FLATTOP GRILLE

Completed By: Bayley Morvant on 09/25/2023

Notes:
SERVED BY KEF-1.

Written By: Bayley Morvant on 09/25/2023

National TAB

Project: 09-25-23 FREDDY'S BURLESON, TX

System/Unit: Kitchen Hood Type I



Asset: HD2

AREA:FRYER

Unit Data

	Design	Actual
MFG	CaptiveAire	CaptiveAire
Model Num	5424ND-2	5424 ND-2
Job / Serial Num	-	5457831
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	60"	60"
Hood Width	54"	54"

Test Data Exhaust

	Design	Actual
Filter Type	CAPTRATE SOLO FILTER	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	-	149
Filter2 FPM	-	178
Filter3 FPM	-	166
Filter Ave FPM(corr)	-	164
CFM	775	797

Cooking Equipment

	Design	Actual
Item 1	-	FRYER
Item 2	-	FRYER

Completed By: Bayley Morvant on 09/25/2023

Notes:
SERVED BY KEF-2.

Written By: Bayley Morvant on 09/25/2023

National TAB

Project: 09-25-23 FREDDY'S BURLESON, TX

System/Unit: Kitchen Hood Type II



Asset: HD3(Type2)3

AREA:DISHES

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	4224 VHB-G	4224 VHB
Serial Num	-	5457831
Type	TYPE 2 CANOPY	TYPE 2 CANOPY
Hood length	54"	42"
Hood Width	54"	42"

Test Data		
	Design	Actual
Exhaust CFM	525	537

Completed By: Bayley Morvant on 09/25/2023

Notes:
SERVED BY KEF-3.

Written By: Bayley Morvant on 09/25/2023

