

Report By:

National TAB



Report: TAB Report

Function: Test, Adjust, & Balance

Date: 12/10/2025

Completed By: National TAB

PROJECT

12-08-25 Freddys - Ada, OK

1000 Lonnie Abbott Blvd

Ada, OK 74820

Client

KT Ventures

National TAB

Project: 12-08-25 Freddys - Ada, OK

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Project Summary

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.

Issue List

- DOAS severe duct leakage.
- KEF-1 and KEF-2 flex conduit.
- RTU-1 main power flex conduit.
- RTU-1 Remote temp sensor.
- RTU-1 Thermostat fan occupied fan.



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Project Issue Information

Issue Name : DOAS severe duct leakage.
Description : On return visit duct leakage was mostly sealed and now no longer leaks out of the building but now leaks into the space(after patch diffusers did not increase but building pressure did. Unit speed reduced to bring building pressure back into balance. Due to present duct leakage state diffusers do not meet design but unit total does.
Created By : National TAB **Assigned To :** National TAB - Dan Hertenstein
Status : Open
Priority : Urgent **Asset Tag :** DOAS2
Originated Date : 12/24/2025 - Cody Collett - National TAB



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Project Issue Information

Issue Name : KEF-1 and KEF-2 flex conduit.
Description : KEF-1 and KEF-2 flex conduit prevent their respective fans from fully tilting/using the hinge kit. Reinstall high and low voltage flex conduit to allow hinge kits to function.
Created By : National TAB **Assigned To :** National TAB - Dan Hertenstein
Status : Open
Priority : Urgent **Asset Tag :**
Originated Date : 12/10/2025 - Cody Collett - National TAB



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Project Issue Information

Issue Name : RTU-1 main power flex conduit.
Description : RTU-1 main power flex conduit obstructs MA door of RTU-1 from fully opening. Additionally water collects at escutcheon at roof penetration.
Created By : National TAB **Assigned To :** National TAB - Dan Hertenstein
Status : Open
Priority : Low **Asset Tag :**
Originated Date : 12/10/2025 - Cody Collett - National TAB

Project Issue File Details



12/10/2025



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Project Issue Information

Issue Name :	RTU-1 Remote temp sensor.		
Description :	RTU-1 Temp sensing/ remote temp sensor was not configured correctly, fixed by TAB tech.		
Created By :	National TAB	Assigned To :	National TAB - Dan Hertenstein
Status :	Closed		
Priority :	InfoOnly	Asset Tag :	RTU1
Originated Date :	12/11/2025 - Cody Collett - National TAB		



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Project Issue Information

Issue Name : RTU-1 Thermostat fan occupied fan.
Description : RTU-1 Thermostat does not have an option to set fan to be on when occupied, freddys management on site were informed of the affects on building pressure and as a temporary measure to enable the fan manually on the thermostat when store is occupied. Recommend replacement of thermostat with one that can be programmed to have the fan on when occupied.

Created By : National TAB **Assigned To :** National TAB - Dan Hertenstein

Status : Open

Priority : Urgent **Asset Tag :** RTU1

Originated Date : 12/11/2025 - Cody Collett - 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
RTU-1	DINING	5000	4856	4019	3834	981	1022	19.6%	21.0%						
DOAS-1	KITCHEN	2300	2343	0	0	2300	2343	100.0%	100.0%						
KEF-1	HOOD 1											1600	1644		
KEF-2	HOOD 2											775	792		
EF-1	RESTROOM													75	72
EF-2	RESTROOM													75	74
TOTALS		7300	7199	4019	3834	3281	3365			0	0	2375	2436	150	146

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	3281	3365
TOTAL EXHAUST	2525	2582
NET AIRFLOW	756	783

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H2O)
FRONT	0.022
SIDE	NA
REAR	0.018
AVERAGE	0.02

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

- STEP 1: INITIAL WALKTHROUGH
- STEP 2: UNIT DATA AND EVAL
- STEP 3: TEST, ADJUST AND BALANCE
- STEP 4: FINAL TESTS
- STEP 5: FINAL DOCUMENTATION



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CheckList Information

Name : STEP 1: INITIAL WALKTHROUGH **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 11/17/2025 - Tyce Fox - National TAB

Completed Date : 12/11/2025 - Cody Collett - National TAB

CheckList Item Details

INITIAL SITE WALKTHROUGH

All diffusers and grilles are installed and match design? Yes

Comment:

With exception of diffuser 2-7 due to ceiling grid placement.

All hood filters installed and accounted for? Yes

Comment:

Hoods are wired and have power? Yes

Comment:

Hood is free of alarms? Yes

Comment:

Thermostats have power? Yes

Comment:

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

Comment:

YES



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CheckList Information

Name : STEP 2: UNIT DATA AND EVAL **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 11/17/2025 - Tyce Fox - National TAB

Completed Date : 12/11/2025 - Cody Collett - 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:

DCV Max damper opening position is set to minimum? N/A

Comment:

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

Comment:

Motors are all operating below the FLA rating? Yes

Comment:

Are belts tight?

Comment:

N/A

If direct drive unit is the speed controller working.

Comment:

YES

Is gas piping installed and valves turned on?

Yes

Comment:

Unit free of noticeable noise and vibration

Yes

Comment:

EF's

Rotation is correct?

Yes

Comment:

Belts are tight?

Comment:

N/A

Grease cup installed on hood fan?

Yes

Comment:

Hinge kit installed installed on hood fan?

Yes

Comment:

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

Yes

Comment:

Unable to fully tilt KEF-1 or KEF-2 due to flex conduit installation. Technician was able to tilt fans back enough to see duct and duct to fan alignment.

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

Comment:

Unable to fully tilt KEF-1 or KEF-2 due to flex conduit installation.

There is no major leakage around base of fan?

Yes

Comment:

Is the motor operating below the motor FLA rating?

Yes

Comment:

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

Yes

Comment:

Unit free of noticeable noise and vibration?

Yes

Comment:

MUA

Rotation is correct?

N/A

Comment:

Gas piping is installed and valves are in on position?

N/A

Comment:

Heater tested and is functional?

N/A

Comment:

Internal motorized damper is fully opening?

N/A

Comment:

Motor is operating below the FLA rating?

N/A

Comment:

Unit free of noticeable noise and vibration?

N/A

Comment:

HOODS

Kitchen equipment installed in proper places?

Yes

Comment:

Can kitchen equipment be turned on for final smoke test?

Yes

Comment:

DOCUMENTATION

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

Comment:



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CheckList Information

Name : STEP 3: TEST, ADJUST AND BALANCE **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 11/17/2025 - Tyce Fox - National TAB
Completed Date : 12/11/2025 - Cody Collett - 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:

Is space comfortable in all areas? Yes

Comment:

Is the space free of ventilation noise? Yes

Comment:

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

Comment:

NA



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CheckList Information

Name : STEP 4: FINAL TESTS **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 11/17/2025 - Tyce Fox - National TAB

Completed Date : 12/11/2025 - Cody Collett - National TAB

CheckList Item Details

FINAL TESTS

HOOD CAPTURE TEST

List equipment turned on for testing

Comment:

Griddle, fryer startup not completed during testing.

List smoke candle type used

Comment:

45 second smoke candle

Smoke test capture - Perimeter of hood

Comment:

100%

Smoke test capture - Top of cooking surface

Comment:

100%

WITNESS

Date test was completed

12/10/2025

Comment:

TAB tech name / Firm

Comment:

Cody Collett / National TAB

Site super name / Firm

Comment:

Owner representative name / Firm (if Applicable)

Comment:

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

Comment:

Front 0.022" Rear 0.018"

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:

Thermostat does not have an option to set fan on when occupied, noted further in issues.



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CheckList Information

Name : STEP 5: FINAL DOCUMENTATION **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 11/17/2025 - Tyce Fox - National TAB

Completed Date : 12/11/2025 - Cody Collett - National TAB

CheckList Item Details

FINAL DOCUMENTATION

Marked Data capture complete for all assets? Yes

Comment:

Picture file sent to processing team or uploaded? Yes

Comment:

Balance schedule complete and uploaded? Yes

Comment:

Prelim report generated and reviewed? Yes

Comment:

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Project: 12-08-25 Freddys - Ada, OK

System/Unit: AHU/RTU



Asset: DOAS2

AREA:KITCHEN

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Serial Num	-	6691142
Model Num	CASRTU3-1.200-15-15T	CAS-HVAC3-1.200-15-15T
Type	DOAS	DOAS
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	4
OA Filter Size 1	-	16x25x2
Num Final Filter 1	-	4
Final Filter Size 1	-	20x25x2
Num Final Filter 2	-	4
Final Filter Size 2	-	20x25x2

Motor Data		
	Design	Actual
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	145T
Horsepower	2	2
Motor Rpm	-	1745
Phase	3	3
Rated Voltage	208	230
Rated Amperage	-	5.6

Drive Data	
	Actual
Motor Sheave Size	DIRECT DRIVE

Test Data		
	Design	Actual
SF CFM	2300	2343
RA CFM	0	0
OA CFM	2300	2343
RL Voltage	-	185/185/186
RL Amperage	-	5.1/5.1/5.2
SF Rotation	-	CCW
SF System SetPt	-	57.8
RA Damper Position	-	0%
Min OA Damper Position	-	100%
Min OA Damper Type	-	Motorized

General	
	Actual
Fan Rotation Correct	Yes
Unit Filters Clean	Yes
Condensate Drain Installed	Yes

Completed By: Cody Collett on 12/10/2025

Notes:

- Final filter 1 merv 8
- Final filter 2 merv 13

Unit CFM measured at roof due to leakage.

Diffuser CFM does not match UNIT total due to duct leakage.

Written By: Cody Collett on 12/23/2025

Unit Data - PHOTO LOG



12/10/2025



12/10/2025



12/10/2025

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 Project:12-08-25 Freddys - Ada, OK
AHU/RTU



Diffuser Supply (GRD)

DOAS2/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	BACK KITCHEN	SD2	10"	270	1	372	333	220	81.5
SGRD2	KITCHEN	SD2	10"	270	1	410	381	215	79.6
SGRD3	KITCHEN	SD2	10"	260	1	40	293	210	80.8
SGRD4	KITCHEN	SD4	8"	150	1	159	141	136	90.7
SGRD5	KITCHEN	SD2	10"	330	1	33	282	260	78.8
SGRD6	KITCHEN	SD2	10"	270	1	378	322	210	77.8
SGRD7	KITCHEN	SD3	10"	270	1	318	271	254	94.1
SGRD8	KITCHEN	SD3	10"	270	1	324	268	251	93.0
SGRD9	BOH	SD2	10"	270	1	310	267	253	93.7
Total				2360		2344	2558	2009	85.13%

Completed By: Cody Collett on 12/10/2025

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Project: 12-08-25 Freddys - Ada, OK

System/Unit: AHU/RTU



Asset: RTU1

AREA:DINING

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	254510494L
Model Num	YSJ-150	YSK150A3S0H
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	15.5x36"
Num Final Filter 1	-	3
Final Filter Size 1	-	18x18x2
Num Final Filter 2	-	3
Final Filter Size 2	-	18x24x2

Test Data		
	Design	Actual
SF CFM	5000	4856
SF RPM	-	1217
RA CFM	4019	3834
OA CFM	981	1022
RL Voltage	-	214/214/213
RL Amperage	-	3.1/3.1/3.1
SF Rotation	-	CW
SF System SetPt	-	62.8%
RA Damper Position	-	63%
Min OA Damper Position	-	37%
Min OA Damper Type	-	ECONOMIZER

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	5.0
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	11.0

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.29"
Fan Suction SP	-	0.58"
Fan Discharge SP	-	0.44"
Total ESP	1"	0.73"
Fan Total SP	-	1.02"

Drive Data	
	Actual
Motor Sheave Size	DIRECT DRIVE

General	
	Actual
Fan Rotation Correct	Yes
Unit Filters Clean	Yes
Condensate Drain Installed	Yes

Completed By: Cody Collett on 12/10/2025

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Project: 12-08-25 Freddys - Ada, OK

AHU/RTU



Diffuser Supply (GRD)

RTU1/DINING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	DINING	SD1	12"	490	1.3	179	820	537	109.6
SGRD2	DINING	SD1	12"	520	1.3	721	478	521	100.2
SGRD3	DINING	SD1	12"	520	1.3	676	495	468	90.0
SGRD4	DINING	SD1	12"	520	1.3	704	597	473	91.0
SGRD5	DINING	SD1	12"	520	1.3	382	315	504	96.9
SGRD6	VESTIBULE	SD5	8"	150	0.348	112	120	153	102.0
SGRD7	DINING	SD1	12"	520	1.3	533	491	472	90.8
SGRD8	DINING	SD1	12"	520	1.3	638	573	570	109.6
SGRD9	DINING	SD1	12"	520	1.3	616	572	469	90.2
SGRD10	DINING	SD1	12"	520	1.3	681	591	496	95.4
SGRD11	RESTROOM	SD5	6"	50	1	75	72	54	108.0
SGRD12	DINING	SD5	6"	100	1	69	67	92	92.0
SGRD13	RESTROOM	SD5	6"	50	1	108	102	47	94.0
Total				5000		5494	5293	4856	97.12%

Completed By: Cody Collett on 12/10/2025

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Project: 12-08-25 Freddys - Ada, OK

System/Unit: FAN - Exhaust



Asset: EF1

AREA:RESTROOM

Unit Data		
	Design	Actual
MFG	GREENHECK	LOREN COOK
Model Num	SP-A200-390	GEMINI VF 100 SONEBUSTER
Serial Num	-	NL
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	75	72
Fan Rotation	-	CW
System SetPt	-	Manual screw
RL Voltage	-	112
RL Amperage	-	0.18

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	0.08	NL
Motor Rpm	900	NL
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	0.26
Service Factor	-	NL

Completed By: Cody Collett on 12/10/2025

Unit Data - PHOTO LOG



12/10/2025

National TAB

Project: 12-08-25 Freddys - Ada, OK

System/Unit: FAN - Exhaust



Asset: EF2

AREA:RESTROOM

Unit Data		
	Design	Actual
MFG	GREENHECK	LOREN COOK
Model Num	SP-A200-390	GEMINI VF 100 SONEBUSTER
Serial Num	-	NL
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	75	74
Fan Rotation	-	CW
System SetPt	-	Manual screw
RL Voltage	-	114
RL Amperage	-	0.20

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	0.08	NL
Motor Rpm	-	NL
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.26
Service Factor	-	NL

Completed By: Cody Collett on 12/10/2025

Unit Data - PHOTO LOG



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Project: 12-08-25 Freddys - Ada, OK

System/Unit: FAN - Exhaust



Asset: KEF1

AREA:HOOD 1

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	CASRE18DD	CASRE18DD
Serial Num	-	6691142
Type	UTILITY	UTILITY
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	1600	1644
Fan Rotation	-	CCW
System SetPt	-	54.7
RL Voltage	-	147/148/148
RL Amperage	-	3.0/3.0/3.1
Total ESP	1.400"	0.83"
Fan Inlet SP	-	-0.83"
Fan Discharge SP	-	ATM

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

Completed By: Cody Collett on 12/10/2025

Unit Data - PHOTO LOG



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Project: 12-08-25 Freddys - Ada, OK

System/Unit: FAN - Exhaust



Asset: KEF2

AREA:HOOD 2

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU50HFA	DU50HFA
Serial Num	-	6691242
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	0.50	0.50
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	6.3
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	775	792
Fan Rotation	-	CCW
System SetPt	-	65%
RL Voltage	-	122
RL Amperage	-	3.2
Total ESP	1.250"	0.65"
Fan Inlet SP	-	-0.65"
Fan Discharge SP	-	ATM

Completed By: Cody Collett on 12/10/2025

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Project: 12-08-25 Freddys - Ada, OK

System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:HOOD 1

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 ND-2	5424 ND-2
Job / Serial Num	-	6691142
Type	TYPE I CANOPY	TYPE I 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	-	188
Filter2 FPM	-	210
Filter3 FPM	-	207
Filter4 FPM	-	205
Filter5 FPM	-	205
Filter Ave FPM(corr)	-	203
CFM	1600	1644

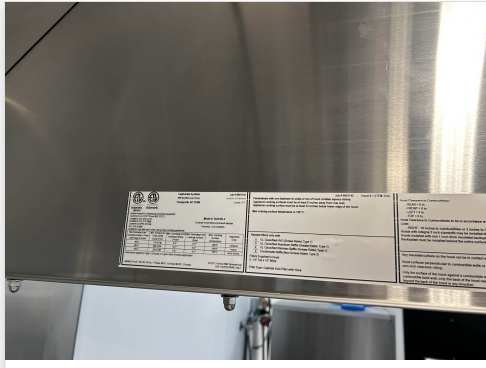
Cooking Equipment	
	Actual
Item 1	Griddle

Completed By: Cody Collett on 12/10/2025

Unit Data - PHOTO LOG



12/10/2025



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National TAB

Project: 12-08-25 Freddys - Ada, OK

System/Unit: Kitchen Hood Type I



Asset: HD2

AREA:HOOD 2

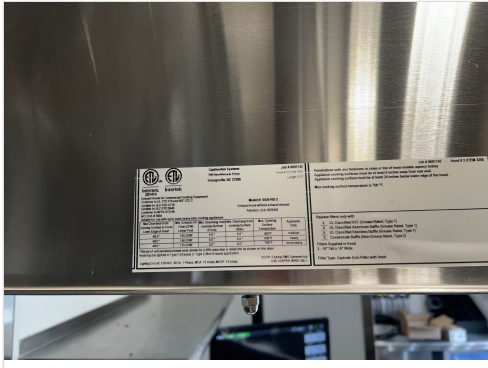
Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 ND-2	5424 ND-2
Job / Serial Num	-	6691142
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	60"	60"
Hood Width	54"	54"

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	-	164
Filter2 FPM	-	166
Filter3 FPM	-	159
Filter Ave FPM(corr)	-	163
CFM	775	792

Cooking Equipment	
	Actual
Item 1	Fryer

Completed By: Cody Collett on 12/10/2025

Unit Data - PHOTO LOG



12/10/2025



12/10/2025

