Report By:

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

Report: TAB Report

Function: Test, Adjust, & Balance

Date: 01/28/2025

Completed By: National TAB

PROJECT

12-16-24 FREDDY'S - MCALESTER, OK

1102 South George Nigh Expressway

MCALESTER, OK 74501

Client

KT Ventures

National TAB

Project: 12-16-24 FREDDY'S - MCALESTER, OK

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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

- RTU 2 Outside Air Filter
- RTU 3 Outside Air Filter

12-16-24 FREDDY'S - MCALESTER, OK

Project Issue Information

Issue Name : RTU 2 Outside Air Filter

Description : RTU-2 outside air filter is in need of replacement.

Created By : National TAB

Assigned To : National TAB - Oscar Ventura

Status : Open

Priority : Low

Asset Tag :

Originated Date : 01/28/2025 - Stephen Tassinaro - National TAB

Project Issue File Details

01/28/2025

12-16-24 FREDDY'S - MCALESTER, OK

Project Issue Information

Issue Name : RTU 3 Outside Air Filter
Description : RTU-3 outside air filter is in need of replacement.

Created By : National TAB
Assigned To : National TAB - Oscar Ventura

Status : Open
Priority : Low
Asset Tag :
Originated Date : 01/28/2025 - Stephen Tassinaro - National TAB

Project Issue File Details

01/28/2025

NATIONAL TAB

AIR BALANCE SCHEDULE

	AREA	HVAC SUPPLY		HVAC RETURN		HVAC OUTDOOR		OA %		HOOD MAKE-UP		HOOD EXHAUST		GENERAL EXH.	
UNIT	SERVED	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
AC-1	DINING	2650	2640	2120	2131	530	509	20.0%	19.3%						
AC-2	DINING	3640	3520	2910	2778	730	742	20.1%	21.1%						
AC-3	KITCHEN	4964	4803	4144	3983	820	820	16.5%	17.1%						
MAU-1	KITCHEN HOODS									1900	1860				
EF-1	RESTROOM													280	284
KEF-1	HD 1											1600	1636		
KEF-2	HD 2											775	758		
TOTALS		11254	10963	9174	8892	2080	2071			1900	1860	2375	2394	280	284

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	3980	3931
TOTAL EXHAUST	2655	2678
NET AIRFLOW	1325	1253

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H20)
FRONT	0.015
SIDE	
REAR	0.016
AVERAGE	**0.0155**

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

12-16-24 FREDDY'S - MCALESTER, OK

CheckList Information

Name :	TECH - STEP 1: INITIAL SITE WALKTHROUGH	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	12/18/2024 - Brian Turnbough - National TAB		
Completed Date :	01/28/2025 - Oscar Ventura - National TAB		

CheckList Item Details

INITIAL SITE WALKTHROUGH

All diffusers and grilles are installed and match design?	Yes
Comment:	
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:

NO ISSUES TO REPORT.

12-16-24 FREDDY'S - MCALESTER, OK

CheckList Information

Name :	TECH - STEP 2: UNIT DATA AND EVAL	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	12/18/2024 - Brian Turnbough - National TAB		
Completed Date :	01/28/2025 - Oscar Ventura - 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?	Yes
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:	

YES

Are belts tight?

Comment:

NA

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:

NA

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:

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

Comment:

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?	Yes
Comment:	
Gas piping is installed and valves are in on position?	Yes
Comment:	
Heater tested and is functional?	Yes
Comment:	
Internal motorized damper is fully opening?	Yes
Comment:	
Motor is operating below the FLA rating?	Yes
Comment:	
Unit free of noticeable noise and vibration?	Yes
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:	

12-16-24 FREDDY'S - MCALESTER, OK

CheckList Information

Name :	TECH - STEP 3: TEST ADJUST AND BALANCE	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	12/18/2024 - Brian Turnbough - National TAB		
Completed Date :	01/28/2025 - Oscar Ventura - 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 :	TECH - STEP 4: FINAL TESTS	**Status :**	Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	12/18/2024 - Brian Turnbough - National TAB		
Completed Date :	01/28/2025 - Oscar Ventura - National TAB		

CheckList Item Details

FINAL TESTS

HOOD CAPTURE TEST

List equipment turned on for testing

Comment:

NO EQUIPMENT TURNED ON FOR TESTING.

List smoke candle type used

Comment:

45-SEC SMOKE CANDLE

Smoke test capture - Perimeter of hood

Comment:

100%

Smoke test capture - Top of cooking surface

Comment:

100%

WITNESS

Date test was completed	12/19/2024

Comment:

TAB tech name / Firm

Comment:

OSCAR VENTURA / NTAB

Site super name / Firm

Comment:

NONE PRESENT.

Owner representative name / Firm (if Applicable)

Comment:

NA

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

Comment:

FRONT: 0.015" SIDE: 0.016" REAR: 0.015"

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?	N/A

Comment:

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Project: 12-16-24 FREDDY'S - MCALESTER, OK

System/Unit: AHU/RTU

Asset: RTU1 AREA:DINING

Unit Data		
	Design	**Actual**
MFG	RHEEM	TRANE
Serial Num	-	NL
Model Num	RACDZS120ACB000AA	NL
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	36X18
Num Final Filter 1	-	4
Final Filter Size 1	-	16X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	MARATHON
Frame	-	56
Horsepower	-	1.00
Motor Rpm	-	1725
Phase	-	3
Rated Voltage	-	208
Rated Amperage	-	3.6

Drive Data	
	Actual
Motor Sheave Size	3.75"
Motor Bore Size	0.75"
Motor Sheave SetPt	1.5 TURNS
Fan Sheave Size	6"
Fan Sheave Bore	1"
Belt CL Distance	10"
Num of Belts	1
Belt Size	A32
Belt Alignment	CORRECT

Test Data		
	Design	**Actual**
SF CFM	2650	2640
SF RPM	-	978
RA CFM	2120	2131
OA CFM	530	509
RL Voltage	-	211/212/212
RL Amperage	-	3.2/3.2/3.3
SF Rotation	-	CW
RA Damper Position	-	85%
Min OA Damper Position	-	15%
Min OA Damper Type	-	OPPOSED BLADE

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.16"
Fan Suction SP	-	-0.52"
Fan Discharge SP	-	0.23"
Total ESP	-	0.39"
Fan Total SP	-	0.75"

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

Completed By: Oscar Ventura on 12/19/2024

Notes:
(1). DATA TAG NOT LEGIBLE.

Written By: Oscar Ventura on 12/19/2024

Unit Data - PHOTO LOG

12/18/2024

12/19/2024

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Project:12-16-24 FREDDY'S - MCALESTER, 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**
RTU1-SGRD1	DINING	SD-1	12"	450	1	373	684	430	95.6
RTU1-SGRD2	DINING	SD-1	10"	440	1	290	329	434	98.6
RTU1-SGRD3	DINING	SD-1	12"	440	1	234	485	449	102.0
RTU1-SGRD4	DINING	SD-1	12"	440	1	115	307	443	100.7
RTU1-SGRD5	DINING	SD-1	10"	440	1	154	251	438	99.5
RTU1-SGRD6	DINING	SD-1	10"	440	1	188	488	446	101.4
Total				2650		1354	2544	2640	99.62%

Completed By: Oscar Ventura on 12/19/2024

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Project: 12-16-24 FREDDY'S - MCALESTER, OK

System/Unit: AHU/RTU

Asset: RTU2 AREA:SIDE DINING/RESTROOMS

Unit Data		
	Design	**Actual**
MFG	RHEEM	TRANE
Serial Num	-	131611568L
Model Num	RACDZS120ACB000AA	YSC120F3RHA04F0D
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	36X18
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	3.8
Motor Rpm	-	NL
Phase	-	3
Rated Voltage	-	208
Rated Amperage	-	8.5

Drive Data	
	Actual
Motor Sheave Size	DIRECT DRIVE
Motor Bore Size	DIRECT DRIVE
Motor Sheave SetPt	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
Belt Alignment	DIRECT DRIVE

Test Data		
	Design	**Actual**
SF CFM	3640	3520
SF RPM	-	DIRECT DRIVE
RA CFM	2910	2778
OA CFM	730	742
RL Voltage	-	211/211/212
RL Amperage	-	7.1/7.2/7.1
SF Rotation	-	CW
RA Damper Position	-	80%
Min OA Damper Position	-	20%
Min OA Damper Type	-	OPPOSED BLADE

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.19"
Fan Suction SP	-	-0.31
Fan Discharge SP	-	0.47"
Total ESP	-	0.66"
Fan Total SP	-	0.78"

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

Completed By: Oscar Ventura on 12/19/2024

Notes:
(1). OUTSIDE AIR FILTER NEEDS TO BE REPLACED.

Written By: Oscar Ventura on 12/19/2024

Unit Data - PHOTO LOG

12/18/2024

Test Data - PHOTO LOG

12/19/2024

National TAB

Project:12-16-24 FREDDY'S - MCALESTER, OK

AHU/RTU

Diffuser Supply (GRD)

RTU2/SIDE DINING/RESTROOMS

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
RTU2-SGRD1	DINING	SD-1	12"	540	1	212	508	508	94.1
RTU2-SGRD2	DINING	SD-1	12"	540	1	580	513	513	95.0
RTU2-SGRD3	DINING	SD-1	12"	540	1	204	539	539	99.8
RTU2-SGRD4	VESTIBULE	SD-EX	12X12	100	1	221	95	95	95.0
RTU2-SGRD5	DINING	SD-1	12"	540	1	79	529	529	98.0
RTU2-SGRD6	DINING	SD-1	12"	550	1	180	536	536	97.5
RTU2-SGRD7	DINING	SD-1	12"	550	1	189	516	516	93.8
RTU2-SGRD8	RESTROOM	SD-EX	12X12	140	1	196	146	146	104.3
RTU2-SGRD9	RESTROOM	SD-EX	12X12	140	1	168	138	138	98.6
Total				3640		2029	3520	3520	96.7%

Completed By: Oscar Ventura on 12/19/2024

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Project: 12-16-24 FREDDY'S - MCALESTER, OK

System/Unit: AHU/RTU

Asset: RTU3 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	NA	TRANE
Serial Num	-	131610459D
Model Num	NA	YSD150F3RHA01HOD
Type	-	RTU
Configuration	-	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	50X16
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	2
Final Filter Size 2	-	20X20X2

Motor Data		
	Design	**Actual**
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	-	3.00
Motor Rpm	-	1725
Phase	-	3
Rated Voltage	-	208
Rated Amperage	-	9.4

Drive Data	
	Actual
Motor Sheave Size	4"
Motor Bore Size	0.75"
Motor Sheave SetPt	1 TURN
Fan Sheave Size	9"
Fan Sheave Bore	1"
Belt CL Distance	21"
Num of Belts	1
Belt Size	BX62
Belt Alignment	CORRECT

Test Data		
	Design	**Actual**
SF CFM	4964	4803
SF RPM	-	986
RA CFM	4144	3983
OA CFM	820	820
RL Voltage	-	213/213/212
RL Amperage	-	8.3/8.4/8.4
SF Rotation	-	CW
SF System SetPt	-	1 TURN
RA Damper Position	-	85%
Min OA Damper Position	-	15%
Min OA Damper Type	-	OPPOSED BLADE

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.60"
Fan Suction SP	-	-0.57"
Fan Discharge SP	-	0.72"
Total ESP	-	1.32"
Fan Total SP	-	1.29"

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

Completed By: Oscar Ventura on 12/19/2024

Notes:
(1). OUTSIDE AIR FILTER NEEDS TO BE REPLACED.

Written By: Oscar Ventura on 12/19/2024

Unit Data - PHOTO LOG

12/18/2024

Test Data - PHOTO LOG

12/19/2024

National TAB

Project:12-16-24 FREDDY'S - MCALESTER, OK

AHU/RTU

Diffuser Supply (GRD)

RTU3/KITCHEN

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
RTU3-SGRD1	KITCHEN	SD-2	12"	500	1	479	487	487	97.4
RTU3-SGRD2	KITCHEN	SD-3	12"	500	1	541	498	498	99.6
RTU3-SGRD3	HD-2	ACPSP	6X60	309	1	613	287	287	92.9
RTU3-SGRD4	KITCHEN	SD-2	12"	500	1	521	478	478	95.6
RTU3-SGRD5	KITCHEN	SD-2	12"	500	1	448	506	506	101.2
RTU3-SGRD6	KITCHEN	SD-2	12"	500	1	509	493	493	98.6
RTU3-SGRD7	KITCHEN	RG-2	10X6	150	1	70	149	149	99.3
RTU3-SGRD8	KITCHEN	SD-2	12"	500	1	515	483	483	96.6
RTU3-SGRD9	KITCHEN	SD-2	12"	500	1	153	484	484	96.8
RTU3-SGRD10	HD-1	ACPSP	6X96	505	1	424	467	467	92.5
RTU3-SGRD11	KITCHEN	SD-2	12"	500	1	228	471	471	94.2
Total				4964		4501	4803	4803	96.76%

Completed By: Oscar Ventura on 12/19/2024

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Project: 12-16-24 FREDDY'S - MCALESTER, OK

System/Unit: FAN - Exhaust

Asset: EF1 AREA:RESTROOMS

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	CASRE18DD	DU12HFA
Serial Num	-	1767479
Type	CEILING	CENTRIFUGAL
Configuration	VERTICAL	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	FASCO
Frame	-	NL
Horsepower	-	0.18
Motor Rpm	-	1625
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	2.0
Service Factor	-	NL

Test Data		
	Design	**Actual**
CFM	280	284
Fan RPM	-	975
Fan Rotation	-	CCW
Motor RPM	-	975
System SetPt	-	HIGH-SPEED
RL Voltage	-	121
RL Amperage	-	1.2
Total ESP	-	0.34"
Fan Inlet SP	-	-0.34"
Fan Discharge SP	-	ATM

Completed By: Oscar Ventura on 12/18/2024

Unit Data - PHOTO LOG

12/18/2024

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Project:12-16-24 FREDDY'S - MCALESTER, OK

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF1/RESTROOMS

Asset										
Asset Name	**Model Num**	**MFG**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EF1-EGRD1	NA	NA	EG-EX	8"	140	1	89	137	137	97.9
EF1-EGRD2	NA	NA	EG-EX	8"	140	1	106	147	147	105.0
Total					280		195	284	284	101.43%

Completed By: Oscar Ventura on 12/18/2024

National TAB

Project: 12-16-24 FREDDY'S - MCALESTER, OK

System/Unit: FAN - Exhaust

Asset: KEF1 AREA:Kitchen

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	CASRE18DD	CASRE18DD
Serial Num	-	6721451
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	208
Amperage (rated)	-	3.44
Service Factor	-	1.15

Test Data		
	Design	**Actual**
CFM	1600	1636
Fan RPM	-	1105
Fan Rotation	-	CCW
Motor RPM	-	1105
System SetPt	-	57.7 HZ
RL Voltage	-	188 VFD
RL Amperage	-	3.0 VFD
Total ESP	1.400"	0.76"
Fan Inlet SP	-	-0.76"
Fan Discharge SP	-	ATM

Completed By: Oscar Ventura on 12/18/2024

Unit Data - PHOTO LOG

12/18/2024

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Project: 12-16-24 FREDDY'S - MCALESTER, OK

System/Unit: FAN - Exhaust

Asset: KEF2 AREA:Kitchen

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	CASRE18DD	DU50HFA
Serial Num	-	6721451
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	0.500	0.50
Motor Rpm	-	NL
Phase	1	1
Voltage (rated)	115	120
Amperage (rated)	-	6.3
Service Factor	-	NL

Test Data		
	Design	**Actual**
CFM	775	758
Fan RPM	-	DIRECT DRIVE
Fan Rotation	-	CCW
Motor RPM	-	DIRECT DRIVE
System SetPt	-	61%
RL Voltage	-	121
RL Amperage	-	2.9
Total ESP	1.250"	0.66"
Fan Inlet SP	-	-0.66"
Fan Discharge SP	-	ATM

Completed By: Oscar Ventura on 12/18/2024

Unit Data - PHOTO LOG

12/18/2024

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Project: 12-16-24 FREDDY'S - MCALESTER, OK

System/Unit: FAN - Supply

Asset: MUA1 AREA:MUA

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	A1-D.250-16D-MPU	A1-D.250-G10
Serial Num	-	1596906
Type	MUA	MUA
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	WEG
Frame	-	E56
Horsepower	-	3/4
Motor Rpm	-	1735
Phase	-	3
Voltage (rated)	-	208
Amperage (rated)	-	2.65
Service Factor	-	1.15

Gas Heat		
	Design	**Actual**
Heater Operates (y/n)	-	YES
Flame Status (pass/fail)	-	YES
Inlet Air Temp SetPt	-	55
Discharge Air Temp SetPt	-	60
Air Flow Switch SP Actual	-	0.48"

Test Data		
	Design	**Actual**
CFM	1900	1860
SF RPM	-	1098
Motor RPM	-	1720
SF System SetPt	-	1 TURN
RL Voltage	-	213/212/212
RL Amperage	-	1.6/1.7/1.7
Total ESP	-	0.46"
Fan Discharge SP	-	0.46"

General	
	Actual
Fan Rotation Correct	YES

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Unit Data - PHOTO LOG

12/18/2024

National TAB

Project: 12-16-24 FREDDY'S - MCALESTER, OK

System/Unit: Kitchen Hood Type I

Asset: HD1 AREA:Kitchen

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424ND-2-ACPSP-F	5424ND-2-ACPSP-F
Job / Serial Num	-	6721451
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	96"	96"
Hood Width	54"	54"
Supply Plenum Type	-	PSP
Supply Plenum Width	24"	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	-	201
Filter2 FPM	-	199
Filter3 FPM	-	218
Filter4 FPM	-	204
Filter5 FPM	-	190
Filter Ave FPM(corr)	-	202
CFM	1600	1636

Cooking Equipment	
	Actual
Item 1	FRYERS

Test Data Supply		
	Design	**Actual**
Total Area	10.5	10.5
Kv factor (Vel)	0.89	0.89
Num of Readings	-	8
Reading1 FPM	-	189
Reading2 FPM	-	138
Reading3 FPM	-	135
Reading4 FPM	-	130
Reading5 FPM	-	136
Reading6 FPM	-	134
Reading7 FPM	-	139
Reading8 FPM	-	141
Ave FPM(corr)	-	136
CFM	1280	1271

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Unit Data - PHOTO LOG

12/19/2024

National TAB

Project: 12-16-24 FREDDY'S - MCALESTER, OK

System/Unit: Kitchen Hood Type I

Asset: HD2 AREA:

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424ND-2-ACPSP-F	5424ND-2-ACPSP-F
Job / Serial Num	-	6721451
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	60"	60"
Hood Width	54"	54"
Supply Plenum Type	-	PSP
Supply Plenum Width	10"	12"
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	-	141
Filter2 FPM	-	168
Filter3 FPM	-	160
Filter Ave FPM(corr)	-	156
CFM	775	758

Cooking Equipment	
	Actual
Item 1	FRYERS

Test Data Supply		
	Design	**Actual**
Total Area	5.0	5.0
Kv factor (Vel)	0.87	0.87
Num of Readings	-	4
Reading1 FPM	-	139
Reading2 FPM	-	138
Reading3 FPM	-	135
Reading4 FPM	-	130
Ave FPM(corr)	-	136
CFM	620	589

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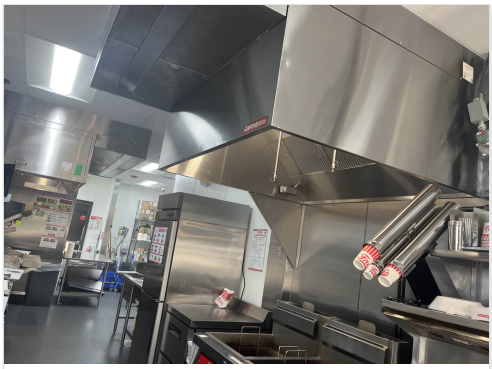
Unit Data - PHOTO LOG



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