

Report By:

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



Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 10/03/2024
Completed By: National TAB

PROJECT
09-23-24 FIREBIRDS SOUTHAVEN, MS

6283 Getwell Rd

SOUTHAVEN, MS

Client

FIREBIRD RESTAURANTS
8700 Red Oak Blvd, Unit J
CHARLOTTE, NC 28217

National TAB

Project: 09-23-24 FIREBIRDS SOUTHAVEN, MS

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Issue List

- Kitchen Equipment Not Operational
- TEF-1 High Flow



09-23-24 FIREBIRDS SOUTHAVEN, MS

Project Issue Information

Issue Name : Kitchen Equipment Not Operational
Description : Captiveaire Tech on 09/24/2024, stated that the hoods had a defective board and has ordered a replacement. As of right now, the Kitchen equipment is not operational to do final building pressure tests, smoke hood test, and MUA heater test.
Created By : National TAB **Assigned To :** National TAB - Antonio Flores-De La Cruz
Status : Closed
Priority : Urgent **Asset Tag :**
Originated Date : 09/25/2024 - Antonio Flores-De La Cruz - National TAB

Project Issue Response Details

- **09/26/2024 National TAB - Antonio Flores-De La Cruz**
 - Board was replaced on 09/25/2024. Able to do remaining checklist.



09-23-24 FIREBIRDS SOUTHAVEN, MS

Project Issue Information

Issue Name : TEF-1 High Flow
Description : TEF-1 is at 275 CFM Actual / 200 CFM Design. Motor sheave is at 3 TO. When attempting to open to 5 TO and tighten the belt, the motor hits the housing and obstructs from going out further. Recommend sheave replacement.
Created By : National TAB **Assigned To :** National TAB - Antonio Flores-De La Cruz
Status : Closed
Priority : Low **Asset Tag :**
Originated Date : 09/25/2024 - Antonio Flores-De La Cruz - National TAB

Project Issue Response Details

- **09/26/2024 National TAB - Antonio Flores-De La Cruz**
 - Fan sheave and Fan belt were replaced to decrease flow.

CheckList List

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

09-23-24 FIREBIRDS SOUTHAVEN, MS

CheckList Information

Name : TECH - SITE PICTURES **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 09/19/2024 - Brianna Biggs - National TAB

Completed Date :

CheckList Item Details

STOREFRONT

Comment:



09/25/2024

RTU-1

Yes

Comment:



09/25/2024

RTU-2

Yes

Comment:



09/25/2024

RTU-3

Yes

Comment:



09/25/2024

DOAS-1

Yes

Comment:



09/25/2024

KEF-1

Yes

Comment:



09/25/2024

KEF-2

Yes

Comment:



09/25/2024

KEF-3

Comment:



09/25/2024

KEF-4

Yes

Comment:



09/25/2024

EF-DISH

Yes

Comment:



09/25/2024

MUA-1

Yes

Comment:



09/25/2024

HD-33 MAIN L

Yes

Comment:



09/25/2024

HD-33 MAIN R

Yes

Comment:



09/25/2024

HD-38 GRILL

Yes

Comment:



09/25/2024

HD-70 PREP

Yes

Comment:



09/25/2024

TEF-1

Yes

Comment:



09/25/2024



09-23-24 FIREBIRDS SOUTHAVEN, MS

CheckList Information

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

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 09/19/2024 - Brianna Biggs - National TAB

Completed Date : 09/26/2024 - Antonio Flores-De La Cruz - 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:

YES



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09-23-24 FIREBIRDS SOUTHAVEN, MS

CheckList Information

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

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 09/19/2024 - Brianna Biggs - National TAB

Completed Date : 09/26/2024 - Antonio Flores-De La Cruz - 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") Yes

Comment:

Motors are all operating below the FLA rating? Yes

Comment:

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:

Unit free of noticeable noise and vibration

Yes

Comment:

EF's

Rotation is correct?

Yes

Comment:

Belts are tight?

Comment:

YES

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?

No

Comment:

DOCUMENTATION

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

Yes

Comment:



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09-23-24 FIREBIRDS SOUTHAVEN, MS

CheckList Information

Name : TECH - STEP 3: TEST, ADJUST AND BALANCE **Status :** Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 09/19/2024 - Brianna Biggs - National TAB

Completed Date : 09/25/2024 - Antonio Flores-De La Cruz - 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:

N/A

09-23-24 FIREBIRDS SOUTHAVEN, MS

CheckList Information

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

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 09/19/2024 - Brianna Biggs - National TAB

Completed Date : 09/27/2024 - Antonio Flores-De La Cruz - National TAB

CheckList Item Details

FINAL TESTS

HOOD CAPTURE TEST

List equipment turned on for testing

Comment:

N/A

List smoke candle type used

Comment:

45 SEC SMOKE PELLET

- [Open](#) HoodLR.mov
09/27/2024
- [Open](#) Hood3.mov
09/27/2024
- [Open](#) HOOD4.mov
09/27/2024

Smoke test capture - Perimeter of hood

Comment:

100%

Smoke test capture - Top of cooking surface

Comment:

100%

WITNESS

Date test was completed

09/26/2024

Comment:

TAB tech name / Firm

Comment:

ANTONIO FLORES-DE LA CRUZ

Site super name / Firm

Comment:

JOHN RAPP

Owner representative name / Firm (if Applicable)

Comment:

N/A

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

Comment:

Front: 0.009 Side: 0.005 Rear: 0.01

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:



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Project: 09-23-24 FIREBIRDS SOUTHAVEN, MS

System/Unit: AHU/RTU



Asset: DOAS-1

AREA:KITCHEN

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Serial Num	-	6624947
Model Num	CASTU3-I.400-24-30T	CAS-HVAC3-I.400-24-30T
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	-	WEG
Frame	-	213T
Horsepower	5	5
Motor Rpm	1170	1170
Phase	3	3
Rated Voltage	208	208
Rated Amperage	15.1	15.1

Drive Data	
	Actual
Motor Sheave Size	DD

Test Data		
	Design	Actual
SF CFM	4000	4122
SF RPM	-	DD
RA CFM	0	0
OA CFM	4000	4122
RL Voltage	-	210/209/210
RL Amperage	-	12.5/12.6/12.5
SF Rotation	-	CCW
SF System SetPt	-	54 Hz
RA Damper Position	-	0%
Min OA Damper Position	-	100%
Min OA Damper Type	-	DOAS
OA Enthalpy Setpt	-	DOAS

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.21"
Fan Suction SP	-	-0.96"
Fan Discharge SP	-	0.30"
Total ESP	0.500"	0.51"
Fan Total SP	-	1.26"

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

Completed By: Antonio Flores-De La Cruz on 09/25/2024



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Project:09-23-24 FIREBIRDS SOUTHAVEN, MS

AHU/RTU



Diffuser Supply (GRD)

DOAS-1/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	DISH	CD-K	12"	285	1	56	293	293	102.8
SGRD2	DISH	CD-K	12"	285	1	240	301	301	105.6
SGRD3	DISH	CD-K	12"	285	1	324	301	301	105.6
SGRD4	DISH	CD-K	12"	285	1	370	298	298	104.6
SGRD5	COOKLINE	CD-K	12"	285	1	254	285	285	100.0
SGRD6	COOKLINE	CD-K	12"	285	1	195	292	292	102.5
SGRD7	COOKLINE	CD-K	12"	285	1	250	277	277	97.2
SGRD8	PREP	CD-K	12"	285	1	324	286	286	100.4
SGRD9	PREP	CD-K	12"	285	1	264	285	285	100.0
SGRD10	PREP	CD-K	12"	285	1	280	301	301	105.6
SGRD11	PREP	CD-K	12"	285	1	212	304	304	106.7
SGRD12	PREP	CD-K	12"	285	1	224	305	305	107.0
SGRD13	KITCHEN	CD-K	12"	285	1	336	298	298	104.6
SGRD14	STORAGE	CD-K	12"	285	1	315	296	296	103.9
Total				3990		3644	4122	4122	103.31%

Completed By: Antonio Flores-De La Cruz on 09/25/2024



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Project: 09-23-24 FIREBIRDS SOUTHAVEN, MS

System/Unit: AHU/RTU



Asset: RTU-1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Serial Num	-	6624947
Model Num	CASRTU3-I.250-20-20T	CAS-HVAC3-I.250-20-20T
Type	RTU	RTU
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	-	WEG
Frame	-	213T
Horsepower	3	3
Motor Rpm	1175	1175
Phase	3	3
Rated Voltage	208	208
Rated Amperage	9.7	9.7

Drive Data	
	Actual
Motor Sheave Size	DD
Belt Alignment	

Test Data		
	Design	Actual
SF CFM	3200	3252
SF RPM	-	DD
RA CFM	1400	1382
OA CFM	1800	1870
RL Voltage	-	210/209/210
RL Amperage	-	6.7/6.8/6.7
SF Rotation	-	CCW
SF System SetPt	-	52 Hz
RA Damper Position	-	43%
Min OA Damper Position	-	58% / 5.8 V
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	S5

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.11"
Fan Suction SP	-	-0.54"
Fan Discharge SP	-	0.20"
Total ESP	0.500"	0.31"
Fan Total SP	-	0.84"

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

Completed By: Antonio Flores-De La Cruz on 09/25/2024



National TAB

Project:09-23-24 FIREBIRDS SOUTHAVEN, MS

AHU/RTU



Diffuser Supply (GRD)

RTU-1/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	ENTRY VESTIBULE	LSD	8"	175	1	165	165	179	102.3
SGRD2	ENTRY VESTIBULE	LSD	8"	175	1	179	179	185	105.7
SGRD3	DINING	SR	18X6	380	0.59	420	420	387	101.8
SGRD4	DINING	SR	16X6	325	0.52	384	376	330	101.5
SGRD5	DINING	SR	18X6	380	0.59	403	330	352	92.6
SGRD6	DINING	SR	16X16	380	0.59	385	346	385	101.3
SGRD7	BEVERAGE	CD	8"	140	1	123	136	149	106.4
SGRD8	BEVERAGE	CD	8"	155	1	117	130	147	94.8
SGRD9	BAR	LSD	12"	280	1	317	260	300	107.1
SGRD10	BAR	LSD	12"	280	1	360	283	293	104.6
SGRD11	DINING	SR	12X6	175	0.53	296	296	186	106.3
SGRD12	DINING	SR	12X6	175	0.38	196	196	174	99.4
SGRD13	DINING	SR	12X6	175	0.38	192	176	185	105.7
Total				3195		3537	3293	3252	101.78%



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Project: 09-23-24 FIREBIRDS SOUTHAVEN, MS

System/Unit: AHU/RTU



Asset: RTU-2

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Serial Num	-	6624947
Model Num	CASRTU3-I.250-20-20T	CAS-HVAC3-I.250-20-20T
Type	RTU	RTU
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	-	WEG
Frame	-	213T
Horsepower	3	3
Motor Rpm	1175	1175
Phase	3	3
Rated Voltage	208	208
Rated Amperage	9.7	9.7

Drive Data	
	Actual
Motor Sheave Size	DD

Test Data		
	Design	Actual
SF CFM	3200	3243
SF RPM	-	DD
RA CFM	1400	1332
OA CFM	1800	1911
RL Voltage	-	210/209/210
RL Amperage	-	6.8/6.9/6.8
SF Rotation	-	CCW
SF System SetPt	-	54 Hz
RA Damper Position	-	42%
Min OA Damper Position	-	57% / 5.7 V
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	S5

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.12"
Fan Suction SP	-	-0.57"
Fan Discharge SP	-	0.19
Total ESP	0.500"	0.31"
Fan Total SP	-	0.76"

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

Completed By: Antonio Flores-De La Cruz on 09/25/2024



National TAB

Project:09-23-24 FIREBIRDS SOUTHAVEN, MS

AHU/RTU



Diffuser Supply (GRD)

RTU-2/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	EXPO	CD	12"	285	1	304	310	304	106.7
SGRD2	EXPO	CD	12"	285	1	300	317	300	105.3
SGRD3	DINING	SR	18X10	560	1.06	589	601	589	105.2
SGRD4	DINING	SR	18X10	560	1.06	572	540	551	98.4
SGRD5	DINING	SR	18X10	560	1.06	542	545	547	97.7
SGRD6	DINING	SR	18X10	560	1.06	529	534	542	96.8
SGRD7	WOMENS RR	CD	6"	90	1	106	113	96	106.7
SGRD8	MENS RR	CD	6"	90	1	106	113	97	107.8
SGRD9	OFFICE	CD	6"	100	1	106	113	106	106.0
SGRD10	LOCKED STORAGE	CD	6"	100	1	67	80	91	91.0
SGRD11				20	0.17	48	35	20	100.0
Total				3210		3269	3301	3243	101.03%

Completed By: Antonio Flores-De La Cruz on 09/25/2024



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Project: 09-23-24 FIREBIRDS SOUTHAVEN, MS

System/Unit: AHU/RTU



Asset: RTU-3

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Serial Num	-	6624947
Model Num	CASRTU1-I.100-13-5T	CAS-HVAC1-I.100-13-5T
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	16X20X2
Num Final Filter 1	-	8
Final Filter Size 1	-	16X16X2

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	143T
Horsepower	1	1
Motor Rpm	1740	1740
Phase	3	3
Rated Voltage	208	208
Rated Amperage	3.1	3.1

Drive Data	
	Actual
Motor Sheave Size	DD

Test Data		
	Design	Actual
SF CFM	1600	1590
SF RPM	-	DD
RA CFM	1252	1233
OA CFM	348	357
RL Voltage	-	209/210/209
RL Amperage	-	2.2/2.3/2.2
SF Rotation	-	CCW
SF System SetPt	-	50 Hz
RA Damper Position	-	69%
Min OA Damper Position	-	31% / 3.1V
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	S5

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.20"
Fan Suction SP	-	-0.47"
Fan Discharge SP	-	0.18"
Total ESP	0.500"	0.38"
Fan Total SP	-	0.65"

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

Completed By: Antonio Flores-De La Cruz on 09/25/2024



National TAB

Project:09-23-24 FIREBIRDS SOUTHAVEN, MS

AHU/RTU



Diffuser Supply (GRD)

RTU-3/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	PRIVATE DINING	CD	8"	200	1	187	214	187	93.5
SGRD2	PRIVATE DINING	CD	8"	200	1	185	196	190	95.0
SGRD3	PRIVATE DINING	SD	8"	200	1	245	215	200	100.0
SGRD4	PRIVATE DINING	SD	8"	200	1	156	175	201	100.5
SGRD5	PRIVATE DINING	SD	8"	200	1	182	186	208	104.0
SGRD6	PRIVATE DINING	SD	8"	200	1	206	215	200	100.0
SGRD7	PRIVATE DINING	SD	8"	200	1	215	204	204	102.0
SGRD9	PRIVATE DINING	SD	8"	200	1	220	217	200	100.0
Total				1600		1596	1622	1590	99.38%



National TAB

Project: 09-23-24 FIREBIRDS SOUTHAVEN, MS

System/Unit: FAN - Exhaust



Asset: EF-DISH0

AREA: DISHWASHER

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU33HFA	DU33HFA
Serial Num	-	6624947
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	HSSA
Frame	-	48Y
Horsepower	0.33	0.33
Motor Rpm	1350	1350
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	5.7
Service Factor	-	1

Test Data		
	Design	Actual
CFM	800	849
Fan RPM	1386	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	MARKED ON DIAL
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	0.500"	0.41"
Fan Inlet SP	-	-0.41"
Fan Discharge SP	-	ATM

Completed By: Antonio Flores-De La Cruz on 09/24/2024



National TAB

Project: 09-23-24 FIREBIRDS SOUTHAVEN, MS

System/Unit: FAN - Exhaust



Asset: KEF-1

AREA:33 LEFT

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU180HFA	DU180HFA
Serial Num	-	6624947
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	182T
Horsepower	2	2
Motor Rpm	1170	1170
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	7.13
Service Factor	-	1.15

Test Data		
	Design	Actual
CFM	2300	2230
Fan RPM	1212	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	50.2 Hz
RL Voltage	-	210/209/210
RL Amperage	-	4.6/4.7/4.6
Total ESP	1.500"	1.31"
Fan Inlet SP	-	-1.31"
Fan Discharge SP	-	ATM"

Completed By: Antonio Flores-De La Cruz on 09/23/2024



National TAB

Project: 09-23-24 FIREBIRDS SOUTHAVEN, MS

System/Unit: FAN - Exhaust



Asset: KEF-2

AREA:33 RIGHT

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU180HFA	DU180HFA
Serial Num	-	6624947
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	182T
Horsepower	2	2
Motor Rpm	1170	1170
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	7.13
Service Factor	-	1.15

Test Data		
	Design	Actual
CFM	2300	2364
Fan RPM	1212	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	49.9 Hz
RL Voltage	-	210/209/210
RL Amperage	-	4.6/4.7/4.6
Total ESP	1.500"	1.42"
Fan Inlet SP	-	-1.42"
Fan Discharge SP	-	ATM

Completed By: Antonio Flores-De La Cruz on 09/23/2024



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Project: 09-23-24 FIREBIRDS SOUTHAVEN, MS

System/Unit: FAN - Exhaust



Asset: KEF-3

AREA:GRILL

Unit Data		
	Design	Actual
MFG	CANARM	CANARM
Model Num	HRE-20	HRE-20
Serial Num	-	6624947
Type	UTILITY	UTILITY
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	CANARM
Frame	-	56
Horsepower	2	2
Motor Rpm	1750	1750
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	6.3
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	1VL44
Motor Bore Size	0.625
Motor Sheave SetPt	2 TO
Fan Sheave Size	BK60
Fan Sheave Bore	1.1875"
Belt CL Distance	12"
Num of Belts	1
Belt Size	B36

Test Data		
	Design	Actual
CFM	3200	2995
Fan RPM	-	1430
Fan Rotation	-	CW
Motor RPM	-	1782
RL Voltage	-	210/211/210
RL Amperage	-	7.0/7.1/7.0
Suction ESP	-	-1.43"
Discharge ESP	-	ATM
Total ESP	1.6"	1.43"

Completed By: Antonio Flores-De La Cruz on 09/23/2024



National TAB

Project: 09-23-24 FIREBIRDS SOUTHAVEN, MS

System/Unit: FAN - Exhaust



Asset: KEF-4

AREA:PREP

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU180HFA	DU180HFA
Serial Num	-	6624947
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	182T
Horsepower	2	2
Motor Rpm	1170	1170
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	7.13
Service Factor	-	1.15

Test Data		
	Design	Actual
CFM	2200	2180
Fan RPM	1129	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	45 Hz
RL Voltage	-	210/209/210
RL Amperage	-	3.7/3.9/3.7
Total ESP	1.400"	1.15"
Fan Inlet SP	-	-1.15"
Fan Discharge SP	-	ATM

Completed By: Antonio Flores-De La Cruz on 09/23/2024



National TAB

Project: 09-23-24 FIREBIRDS SOUTHAVEN, MS

System/Unit: FAN - Exhaust



Asset: TEF-1

AREA:RESTROOMS

Unit Data		
	Design	Actual
MFG	GREENHECK	COOK
Model Num	G-080	70C2B 70 AC3
Serial Num	-	286SL15568
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	NL
Horsepower	0.17	0.17
Motor Rpm	1725	1725
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	3.4
Service Factor	-	1.35

Drive Data	
	Actual
Motor Sheave Size	3.125"
Motor Bore Size	0.5"
Motor Sheave SetPt	2 TO
Fan Sheave Size	AK44
Fan Sheave Bore	0.75"
Belt CL Distance	4.5"
Num of Belts	1
Belt Size	A19

Test Data		
	Design	Actual
CFM	200	210
Fan RPM	-	1224
Fan Rotation	-	CCW
Motor RPM	-	1752
RL Voltage	-	NA
RL Amperage	-	NA
Suction ESP	-	-0.11"
Discharge ESP	-	ATM
Total ESP	0.5"	0.11"

Completed By: Antonio Flores-De La Cruz on 09/25/2024



National TAB

Project:09-23-24 FIREBIRDS SOUTHAVEN, MS

FAN - Exhaust



Diffuser Ret/Exh (GRD)

TEF-1/RESTROOMS

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
TEF-1-EGRD1	WOMENS RR	EG	8	100	1	135	99	106	106.0
TEF-1-EGRD2	MENS RR	EG	8	100	1	140	96	104	104.0
Total				200		275	195	210	105%



National TAB

Project: 09-23-24 FIREBIRDS SOUTHAVEN, MS

System/Unit: FAN - Supply



Asset: MUA-1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	A2-D.500-20D-MPU	A2-D.500-20D-MPU
Serial Num	-	6624947
Type	MUA	MUA
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	WESTINGHOUSE
Frame	-	184T
Horsepower	5	5
Motor Rpm	1750	1750
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	13.6
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	DD

Gas Heat		
	Design	Actual
Heater Operates (y/n)	-	Y
Flame Status (pass/fail)	-	PASS
Inlet Air Temp SetPt	55	55
Discharge Air Temp SetPt	60	60
Air Flow Switch SP Actual	-	0.42"

Test Data		
	Design	Actual
CFM	4000	4076
SF RPM	1723	DD
Motor RPM	-	DD
SF System SetPt	-	60 Hz
RL Voltage	-	210/209/210
RL Amperage	-	10.8/10.9/10.8
Total ESP	-	NA
Fan Discharge SP	-	NA

General	
	Actual
Fan Rotation Correct	YES

Completed By: Antonio Flores-De La Cruz on 09/25/2024

Notes:
Unable to perform Heat Test due to a defective Motherboard for the hoods as of 9/25/2024

Written By: Antonio Flores-De La Cruz on 09/25/2024



National TAB

Project: 09-23-24 FIREBIRDS SOUTHAVEN, MS

System/Unit: Kitchen Hood Type I



Asset: HD MAIN L-1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 ND-2-PSP-F	5424 ND-2-PSP-F
Job / Serial Num	-	6624947
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	138"	138"
Hood Width	54"	54"
Supply Plenum Type	-	PERFORATED
Supply Plenum Width	16"	16"
Supply Plenum Length	138"	138"

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	16X20	16X20
Filter Qty 1	8	8
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	16.64	16.64
Filter1 FPM	-	122
Filter2 FPM	-	124
Filter3 FPM	-	134
Filter4 FPM	-	156
Filter5 FPM	-	160
Filter6 FPM	-	128
Filter7 FPM	-	131
Filter8 FPM	-	118
Filter Ave FPM(corr)	-	134
CFM	2300	2230

Cooking Equipment	
	Actual
Item 1	OVEN
Item 2	STOVE

Test Data Supply		
	Design	Actual
Total AK Area	15.33	15.33
Kv factor (Vel)	0.92	0.92
Num of Readings	-	8
Reading1 FPM	-	154
Reading2 FPM	-	152
Reading3 FPM	-	127
Reading4 FPM	-	129
Reading5 FPM	-	166
Reading6 FPM	-	156
Reading7 FPM	-	174
Ave FPM(corr)	-	151
CFM	2000	2129

Completed By: Antonio Flores-De La Cruz on 09/23/2024



National TAB

Project: 09-23-24 FIREBIRDS SOUTHAVEN, MS
System/Unit: Kitchen Hood Type I



Asset: HD MAIN R-2

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 ND-2-PSP-F	5424 ND-2-PSP-F
Job / Serial Num	-	6624947
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	138"	138"
Hood Width	54"	54"
Supply Plenum Type	-	PERFORATED
Supply Plenum Width	16"	16"
Supply Plenum Length	150"	150"

Test Data Supply		
	Design	Actual
Total AK Area	16.67	16.67
Kv factor (Vel)	0.92	0.92
Num of Readings	-	7
Reading1 FPM	-	137
Reading2 FPM	-	142
Reading3 FPM	-	139
Reading4 FPM	-	120
Reading5 FPM	-	121
Reading6 FPM	-	101
Ave FPM(corr)	-	127
CFM	2000	1947

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	16X20	16X20
Filter Qty 1	8	8
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	16.64	16.64
Filter1 FPM	-	126
Filter2 FPM	-	127
Filter3 FPM	-	151
Filter4 FPM	-	162
Filter5 FPM	-	164
Filter6 FPM	-	146
Filter7 FPM	-	134
Filter8 FPM	-	128
Filter Ave FPM(corr)	-	142
CFM	2300	2364

Cooking Equipment	
	Actual
Item 1	GRILL
Item 2	FRYER

Completed By: Antonio Flores-De La Cruz on 09/23/2024



National TAB

Project: 09-23-24 FIREBIRDS SOUTHAVEN, MS
System/Unit: Kitchen Hood Type I



Asset: HD PREP-4

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	6030 ND-2	6030 ND-2
Job / Serial Num	-	6624947
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	121"	132"
Hood Width	60"	60"

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	16X20	16X20
Filter Qty 1	8	8
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	16.64	16.64
Filter1 FPM	-	138
Filter2 FPM	-	125
Filter3 FPM	-	125
Filter4 FPM	-	146
Filter5 FPM	-	148
Filter6 FPM	-	125
Filter7 FPM	-	122
Filter8 FPM	-	116
Filter Ave FPM(corr)	-	131
CFM	2200	2180

Cooking Equipment	
	Actual
Item 1	STOVE
Item 2	OVEN

Completed By: Antonio Flores-De La Cruz on 09/23/2024



National TAB

Project: 09-23-24 FIREBIRDS SOUTHAVEN, MS
System/Unit: Kitchen Hood Type I



Asset: HD-3

AREA:GRILL

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	6030 ND-2	6030 ND-2
Job / Serial Num	-	6624947
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	98"	98"
Hood Width	60"	60"

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	16X20	16X20
Filter Qty 1	6	6
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	12.48	12.48
Filter1 FPM	-	230
Filter2 FPM	-	239
Filter3 FPM	-	246
Filter4 FPM	-	256
Filter5 FPM	-	244
Filter6 FPM	-	226
Filter Ave FPM(corr)	-	240
CFM	3200	2995

Cooking Equipment	
	Actual
Item 1	GRILL

Completed By: Antonio Flores-De La Cruz on 09/23/2024