Report By:

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

Report: TAB REPORT

Function: Test, Adjust, & Balance

Date: 12/03/2024

Completed By: National TAB

PROJECT

12-02-24 CULVERS OLATHE, KS

13515 South Mur-len Rd

Olathe, KS 66062

Client

Captive-Aire Region #60

National TAB

Project: 12-02-24 CULVERS OLATHE, KS

Table Of Contents

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)
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.

General Exhaust Fans
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

- PRV2/PRV3 electric whip too short to lean back

12-02-24 CULVERS OLATHE, KS

Project Issue Information

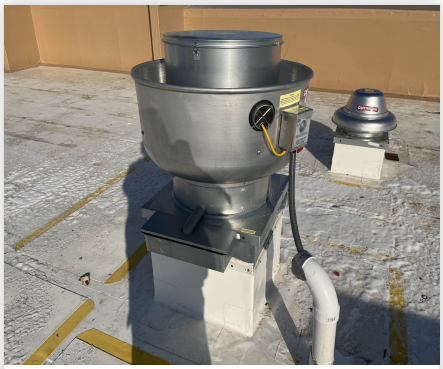
Issue Name : PRV2/PRV3 electric whip too short to lean back

Description : Electric whip is too short for units to be leaned back which will cause difficulty when cleaning the grease ducts.

Created By :	National TAB	**Assigned To :**	National TAB - Jacob Davidson
Status :	Open		
Priority :	Medium	**Asset Tag :**	
Originated Date :	12/02/2024 - Jacob Davidson - National TAB		

Project Issue File Details

12/02/2024



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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	6750	6585	4795	4534	1955	2051	29.0%	31.1%						
RTU-2	KITCHEN	6225	5998	4730	4409	1495	1589	24.0%	26.5%						
PRV 2	HOOD1											1500	1612		
PRV 3	HOOD2											1500	1537		
PRV-1	RESTROOM													300	290
EFB1	EMP RR													75	75
EFA1	MOP ROOM													75	78
TOTALS		12975	12583	9525	8943	3450	3640			0	0	3000	3149	450	443

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	3450	3640
TOTAL EXHAUST	3450	3592
NET AIRFLOW	0	48

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H20)
FRONT	0.0048
SIDE	0.0069
REAR	
AVERAGE	**0.0059**

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:

BUILDING PRESSURE TAKEN UNDER WINDY CONDITIONS

CheckList List

- 01: SITE PICTURES
- 02: RTU's
- 03.EXHAUST FANS
- 04.HOOD 1
- 05.HOOD 2
- 06.FINAL TEST

12-02-24 CULVERS OLATHE, KS

CheckList Information

Name :	01: SITE PICTURES	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	11/27/2024 - Wale Odofin - National TAB		

CheckList Item Details

STORE FRONT

Comment:

12/03/2024

RTU-1

Comment:

ATTACHED TO ASSET

RTU-2

Comment:

ATTACHED TO ASSET

PRV-1

Comment:

ATTACHED TO ASSET

PRV-2

Comment:

ATTACHED TO ASSET

PRV-3

Comment:

ATTACHED TO ASSET

EF-1A

Comment:

ATTACHED TO ASSET

HOOD 1

Comment:

ATTACHED TO ASSET

HOOD 2

Comment:

ATTACHED TO ASSET

PRODIGY BOARD WIRING

Comment:

N/A

12-02-24 CULVERS OLATHE, KS

CheckList Information

Name : 02: RTU's **Status :** Not Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 11/27/2024 - Wale Odofin - National TAB

CheckList Item Details

RTU's/AHU's

Thermostats installed and have power?	Pass
Comment:	
All diffusers and grilles are installed and match design?	Pass
Comment:	
Cookline diffusers have at 12-18" of straight duct out of the top of the diffusers and a rigid 90 degree fitting?	Pass
Comment:	
Economizers are assembled and functional?	Pass
Comment:	
Motors are all operating below the FLA rating?	Pass
Comment:	
Are belts tight?	N/A
Comment:	
If direct drive unit is the speed controller working?	Pass

Comment:	
Is gas piping installed and valves turned on?	Pass
Comment:	
Unit free of noticeable noise and vibration	Pass
Comment:	

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CheckList Information

Name :	03.EXHAUST FANS	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	11/27/2024 - Wale Odofin - National TAB		

CheckList Item Details

EF's

Rotation is correct?	Pass
Comment:	
Belts are tight?	N/A
Comment:	
Hinge kit installed installed on hood fan?	Pass
Comment:	
Lean fan back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?	Pass
Comment:	
Flex conduit is long enough so that fan can be completely tilted back?	Fail
Comment:	
There is no major leakage around base of fan?	Pass
Comment:	
Is the motor operating below the motor FLA rating?	Pass

Comment:	
For restroom fan(s) is the back draft damper installed and can it fully open?	Pass
Comment:	
Unit free of noticeable noise and vibration?	Pass
Comment:	

12-02-24 CULVERS OLATHE, KS

CheckList Information

Name :	04.HOOD 1	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	11/27/2024 - Wale Odofin - National TAB		

CheckList Item Details

HD-1

Is the hood powered and free of alarms?	Pass
Comment:	
Does hood label match submittal?	Pass
Comment:	
Do hood dimensions match submittal?	Pass
Comment:	
Is the hood hung Level?	Pass
Comment:	
Are hood lights installed and are they powered?	Pass
Comment:	
Are temperature Sensors installed?	Pass
Comment:	
Are the correct number and size of filters installed, and are they installed correctly?	Pass

Comment:

Is the grease cup installed?	Pass

Comment:

Are side splashes/skirts installed and do they match the submittal?	Pass

Comment:

Is the backsplash installed and does it match the submittal?	Pass

Comment:

Are ceiling enclosures installed and do they match the submittal?	Pass

Comment:

Does the appliance line-up match the drawings on submittal?	Pass

Comment:

Document any other issues or discrepancies.

Comment:

HOOD CAPTURE TEST

List equipment turned on for testing:

Comment:

NONE

Smoke Test Capture - Perimeter of Hood

Comment:

100%

Smoke Test Capture - Top of Cooking Surface

Comment:

100%

List smoke candle used:

Comment:

S102 45 SECOND SMOKE EMITTER

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CheckList Information

Name :	05.HOOD 2	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	11/27/2024 - Wale Odofin - National TAB		

CheckList Item Details

HD-2

Is the hood powered and free of alarms?	Pass
Comment:	
Does hood label match submittal?	Pass
Comment:	
Do hood dimensions match submittal?	Pass
Comment:	
Is the hood hung Level?	Pass
Comment:	
Are hood lights installed and are they powered?	Pass
Comment:	
Are temperature Sensors installed?	Pass
Comment:	
Are the correct number and size of filters installed, and are they installed correctly?	Pass

Comment:

Is the grease cup installed?	Pass

Comment:

Are side splashes/skirts installed and do they match the submittal?	Pass

Comment:

Is the backsplash installed and does it match the submittal?	Pass

Comment:

Are ceiling enclosures installed and do they match the submittal?	Pass

Comment:

Does the appliance line-up match the drawings on submittal?	Pass

Comment:

Document any other issues or discrepancies.

Comment:

HOOD CAPTURE TEST

List equipment turned on for testing:

Comment:

NONE

Smoke Test Capture - Perimeter of Hood

Comment:

100%

Smoke Test Capture - Top of Cooking Surface

Comment:

100%

List smoke candle used:

Comment:

S102 45 SECOND SMOKE EMITTER

12-02-24 CULVERS OLATHE, KS

CheckList Information

Name :	06.FINAL TEST	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	11/27/2024 - Wale Odofin - National TAB		

CheckList Item Details

FINAL CHECKS	
When hoods are turned off, verify the economizers shut	N/A
Comment: ECONOMIZERS WIRED FOR TO OPEN WITH OCCUPANCY, NOT WITH THE HOODS	
When hoods are turned on, verify the economizers open to the minimum position	N/A
Comment: ECONOMIZERS WIRED FOR TO OPEN WITH OCCUPANCY, NOT WITH THE HOODS	
Is space free of drafting?	Pass
Comment:	
Is space comfortable in all areas?	Pass
Comment:	
Is the space free of ventilation noise?	Pass
Comment:	
HOOD CAPTURE TEST	
List kitchen equipment turned on for testing	

Comment:

NONE

List smoke candle type used

Comment:

S102 45 SECOND SMOKE EMITTER

Smoke test capture % - Perimeter of hood

Comment:

100%

Smoke test capture % - Top of cooking surface

Comment:

100%

WITNESS

Date test was completed	12/03/2024

Comment:

TAB tech name / Firm

Comment:

JACOB DAVIDSON / NATIONAL TAB INTELLIGENCE

Site super name / Firm

Comment:

KENT COHEN / MCCON

Owner representative name / Firm (if Applicable)

Comment:

N/A

BUILDING PRESSURE

Do actual net building airflow, design net building airflow, and pressure coincide? If not why? (All three should either be positive or negative)	Pass

Comment:

National TAB

Project: 12-02-24 CULVERS OLATHE, KS

System/Unit: AHU/RTU

Asset: RTU1 AREA:DINING

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Serial Num	-	6637982
Model Num	CASRTU3-1.30024-20T	CAS-HVAC3-I.300-24-20T
Type	RTU	DOAS
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1 BIRD SCREEN
OA Filter Size 1	-	25.5X46
Num Final Filter 1	-	4 METAL MESH
Final Filter Size 1	-	16X25X2
Num Final Filter 2	-	8
Final Filter Size 2	-	20X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	215T
Horsepower	-	10
Motor Rpm	-	1755
Phase	3	3
Rated Voltage	208	230/460
Rated Amperage	-	24.3/12.2

Test Data		
	Design	**Actual**
SF CFM	6750	6585
SF RPM	-	1726
RA CFM	4795	4534
OA CFM	1955	2051
RL Voltage	-	196V VFD
RL Amperage	-	25.2A VFD
SF Rotation	-	CCW
SF System SetPt	-	59.0 HZ
RA Damper Position	-	N/A
Min OA Damper Position	-	6.3V
Min OA Damper Type	-	ECONOMIZER

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

Completed By: Jacob Davidson on 12/03/2024

Notes:
Motor FLA is 24.3A at 230V but unit label FLA is 27.0A at 208V. Unit is wired for 208V so using 27.0A FLA

Written By: Jacob Davidson on 12/03/2024

Unit Data - PHOTO LOG

12/03/2024

National TAB

Project:12-02-24 CULVERS OLATHE, KS

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	ENTRY	SD1	8"	150	1	147	136	138	92.0
SGRD2	DINING	SD1	8"	150	1	135	145	146	97.3
SGRD3	DINING	SD1	8"	150	1	183	155	156	104.0
SGRD4	DINING	SD1	8"	150	1	209	155	152	101.3
SGRD5	DINING	SD1	8"	150	1	193	219	154	102.7
SGRD6	DINING	SD1	8"	150	1	192	166	163	108.7
SGRD7	DINING	SD1	8"	150	1	170	182	139	92.7
SGRD8	DINING	SD1	8"	150	1	174	155	159	106.0
SGRD9	DINING	SD1	8"	150	1	162	162	164	109.3
SGRD10	DINING	SD1	8"	150	1	154	169	143	95.3
SGRD11	DINING	SD1	8"	150	1	240	163	158	105.3
SGRD12	DINING	SD1	8"	150	1	160	167	161	107.3
SGRD13	DINING	SD1	8"	150	1	237	173	154	102.7
SGRD14	DINING	SD1	8"	150	1	258	145	149	99.3
SGRD15	DINING	SD1	8"	150	1	256	163	161	107.3
SGRD16	DINING	SD1	8"	150	1	199	167	154	102.7
SGRD17	DINING	SD1	8"	150	1	309	174	137	91.3
SGRD18	DINING	SD1	8"	150	1	185	136	149	99.3
SGRD19	DRINKS	SD1	10"	300	1	319	311	316	105.3
SGRD20	ENTRY	SD1	8"	150	1	183	182	139	92.7
SGRD21	SUNDAE	SD1	10"	325	1	183	301	305	93.8
SGRD22	DRIVE THRU	SD1	10"	325	1	245	320	324	99.7
SGRD23	OFFICE	SD1	8"	200	1	159	169	189	94.5
SGRD24	CUST.SERV	SD1	12"	450	1	400	389	424	94.2
SGRD25	CUST.SERV	SD1	10"	350	1	303	308	316	90.3
SGRD26	CUST.SERV	SD1	10"	350	1	361	340	321	91.7
SGRD27	CUST.SERV	SD1	10"	350	1	258	260	337	96.3
SGRD28	CUST.SERV	SD1	10"	350	1	210	273	319	91.1
SGRD29	DINING	SD1	8"	150	1	175	188	137	91.3
SGRD30	HALL	SD1	12"	450	1	440	471	445	98.9
SGRD31	RR	SD4	8"	150	1	120	134	139	92.7
SGRD32	RR	SD4	8"	150	1	114	138	137	91.3
Total				6750		7033	6716	6585	97.56%

Completed By: Jacob Davidson on 12/03/2024

National TAB

Project: 12-02-24 CULVERS OLATHE, KS

System/Unit: AHU/RTU

Asset: RTU2 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Serial Num	-	6637982
Model Num	CASRTU3-1.30024-20T	CAS-HVAC3-I.200-24-20T
Type	RTU	DOAS
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1 BIRD SCREEN
OA Filter Size 1	-	25.5X46
Num Final Filter 1	-	4 METAL MESH
Final Filter Size 1	-	16X25X2
Num Final Filter 2	-	8
Final Filter Size 2	-	20X25X2

Motor Data		
	Design	**Actual**
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	215T
Horsepower	-	10
Motor Rpm	-	1755
Phase	3	3
Rated Voltage	208	230/460
Rated Amperage	-	24.3/12.2

Test Data		
	Design	**Actual**
SF CFM	6225	5998
SF RPM	-	1694
RA CFM	4730	4409
OA CFM	1495	1589
RL Voltage	-	184V VFD
RL Amperage	-	24.6A VFD
SF Rotation	-	CCW
SF System SetPt	-	57.9HZ
RA Damper Position	-	N/A
Min OA Damper Position	-	6.0V
Min OA Damper Type	-	ECONOMIZER

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

Completed By: Jacob Davidson on 12/03/2024

Notes:
Motor FLA is 24.3A at 230V but unit label FLA is 27.0A at 208V. Unit is wired for 208V so using 27.0A FLA

Written By: Jacob Davidson on 12/03/2024

Unit Data - PHOTO LOG

12/03/2024

National TAB

Project:12-02-24 CULVERS OLATHE, KS

AHU/RTU

Diffuser Supply (GRD)

RTU2/KITCHEN

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	SUNDAE	SD1	12"	600	1	477	585	561	93.5
SGRD2	SUNDAE	SD1	12"	600	1	438	561	549	91.5
SGRD3	KITCHEN	SD5	10"	275	1	222	287	270	98.2
SGRD4	KITCHEN	SD5	10"	250	1	328	417	229	91.6
SGRD5	KITCHEN	SD5	12"	400	1	283	391	411	102.8
SGRD6	KITCHEN	SD5	12"	400	1	376	316	385	96.3
SGRD7	KITCHEN	SD5	12"	375	1	538	356	369	98.4
SGRD8	KITCHEN	SD5	10"	200	1	367	181	197	98.5
SGRD9	KITCHEN	SD5	12"	350	1	470	291	342	97.7
SGRD10	KITCHEN	SD5	12"	350	1	382	318	359	102.6
SGRD11	KITCHEN	SD5	12"	350	1	449	607	331	94.6
SGRD12	UTILITY RM	SD1	12"	600	1	268	444	549	91.5
SGRD13	DRY GOODS	SD1	12"	600	1	324	582	601	100.2
SGRD14	TOILET	SD4	6"	75	1	194	135	71	94.7
SGRD15	DRY GOODS	SD1	12"	600	1	534	551	567	94.5
SGRD16	DRY GOODS	SD1	10"	200	1	351	222	197	98.5
Total				6225		6001	6244	5988	96.19%

Completed By: Jacob Davidson on 12/03/2024

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Project: 12-02-24 CULVERS OLATHE, KS

System/Unit: FAN - Exhaust

Asset: EFA1 AREA:MOP SINK

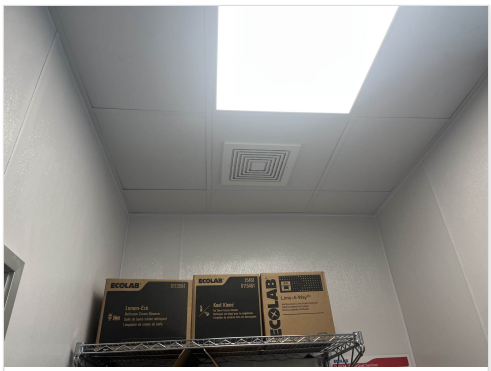
Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	CFA100CA	CFA100CA
Serial Num	-	6637982
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	BROAN
Frame	-	NL
Horsepower	-	0.116
Motor Rpm	-	NL
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	1.1
Service Factor	-	1

Test Data		
	Design	**Actual**
CFM	75	75
Fan RPM	493	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	NONE
RL Voltage	-	119V
RL Amperage	-	0.20A

Completed By: Jacob Davidson on 12/03/2024

Unit Data - PHOTO LOG



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Project: 12-02-24 CULVERS OLATHE, KS

System/Unit: FAN - Exhaust

Asset: EFB1 AREA:EMPLOYEE RESTROOM

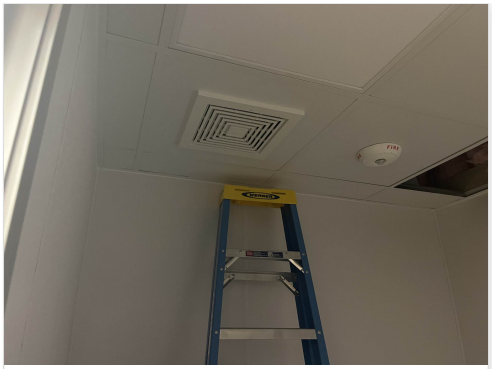
Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	CFA100CA	CFA100CA
Serial Num	-	6637982
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	BROAN
Frame	-	NL
Horsepower	-	0.116
Motor Rpm	-	NL
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	1.1
Service Factor	-	1

Test Data		
	Design	**Actual**
CFM	75	78
Fan RPM	493	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	SINGLE SPEED
RL Voltage	-	119V
RL Amperage	-	0.21A

Completed By: Jacob Davidson on 12/03/2024

Unit Data - PHOTO LOG



12/03/2024

National TAB

Project: 12-02-24 CULVERS OLATHE, KS

System/Unit: FAN - Exhaust

Asset: PRV1 AREA:RESTROOMS

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DR12HFA	DR12HFA
Serial Num	-	6637982
Type	UPBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	-	1/4
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	2.9
Service Factor	-	1

Test Data		
	Design	**Actual**
CFM	300	290
Fan RPM	1298	1232
Fan Rotation	-	CCW
Motor RPM	-	1232
System SetPt	-	65%
RL Voltage	-	121V
RL Amperage	-	NOT SAFE
Total ESP	0.50"	0.19"
Fan Inlet SP	-	-0.19"
Fan Discharge SP	-	ATM

Completed By: Jacob Davidson on 12/03/2024

Unit Data - PHOTO LOG

12/03/2024

National TAB

Project:12-02-24 CULVERS OLATHE, KS

FAN - Exhaust

Diffuser Ret/Exh (GRD)

PRV1/RESTROOMS

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	M RR	EG1	10X10	150	1	165	142	142	94.7
EGRD2	W RR	EG1	10X10	150	1	182	148	148	98.7
Total				300		347	290	290	96.67%

Completed By: Jacob Davidson on 12/03/2024

National TAB

Project: 12-02-24 CULVERS OLATHE, KS

System/Unit: FAN - Exhaust

Asset: PRV2 AREA:HD1

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU85HFA	DU85HFA
Serial Num	-	6637982
Type	NA	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	-	1
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	11.6
Service Factor	-	1

Test Data		
	Design	**Actual**
CFM	1500	1612
Fan RPM	1406	1206
Fan Rotation	-	CCW
Motor RPM	-	1206
System SetPt	-	67P
RL Voltage	-	119V
RL Amperage	-	9.2A
Total ESP	1.412"	0.89"
Fan Inlet SP	-	-0.89"
Fan Discharge SP	-	ATM

Completed By: Jacob Davidson on 12/03/2024

Unit Data - PHOTO LOG

12/03/2024

National TAB

Project: 12-02-24 CULVERS OLATHE, KS

System/Unit: FAN - Exhaust

Asset: PRV3 AREA:HD2

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU85HFA	DU85HFA
Serial Num	-	6637982
Type	NA	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	-	1
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	11.6
Service Factor	-	1

Test Data		
	Design	**Actual**
CFM	1500	1537
Fan RPM	1348	1206
Fan Rotation	-	CCW
Motor RPM	-	1206
System SetPt	-	67P
RL Voltage	-	119V
RL Amperage	-	8.3A
Total ESP	1.250"	0.62"
Fan Inlet SP	-	-0.62"
Fan Discharge SP	-	ATM

Completed By: Jacob Davidson on 12/03/2024

Unit Data - PHOTO LOG

12/03/2024

National TAB

Project: 12-02-24 CULVERS OLATHE, KS

System/Unit: Kitchen Hood Type I

Asset: HD1 AREA:FRYERS

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	3347BD-2	3347BD-2
Job / Serial Num	-	6637982
Type	TYPE 1	TYPE I LOW PROXMIMITY
Hood length	84"	84"
Hood Width	33"	33"

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	-	190
Filter2 FPM	-	197
Filter3 FPM	-	200
Filter4 FPM	-	195
Filter5 FPM	-	215
Filter Ave FPM(corr)	-	199
CFM	1500	1612

Cooking Equipment	
	Actual
Item 1	FRYERS

Completed By: Jacob Davidson on 12/03/2024

Unit Data - PHOTO LOG

12/03/2024

National TAB

Project: 12-02-24 CULVERS OLATHE, KS

System/Unit: Kitchen Hood Type I

Asset: HD2 AREA:GRIDDLE

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	3347BD-2	3347BD-2
Job / Serial Num	-	6637982
Type	TYPE I	TYPE I LOW PROXIMITY
Hood length	66"	66"
Hood Width	34"	33"

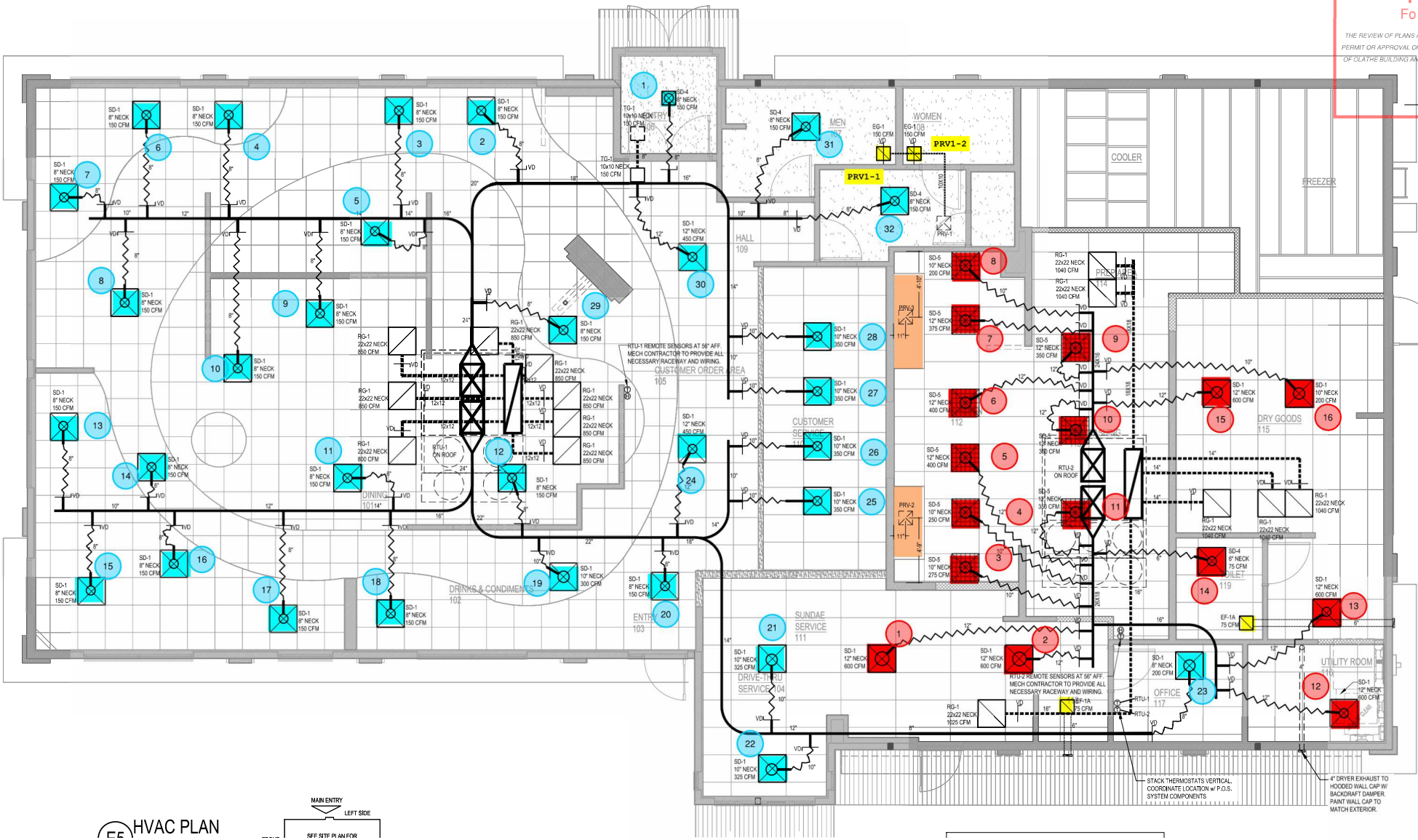
Test Data Exhaust		
	Design	**Actual**
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	16X16	16X16
Filter Qty 1	4	4
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	6.48	6.48
Filter1 FPM	-	231
Filter2 FPM	-	249
Filter3 FPM	-	235
Filter4 FPM	-	233
Filter Ave FPM(corr)	-	237
CFM	1500	1536

Cooking Equipment	
	Actual
Item 1	GRIDDLE

Completed By: Jacob Davidson on 12/03/2024

Unit Data - PHOTO LOG

12/03/2024



HVAC PLAN

Date: 12/3/2024