

Report By:

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



Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 12/04/2023

PROJECT
11-20-23 PENN STATION - AVON, IN

8738-8948 E US HWY 36

AVON , IN 46213

Client

C&T DESIGN
4025 PORT UNION RD.
FAIRFIELD, OH 45014

National TAB

Project: 11-20-23 PENN STATION - AVON, IN

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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.

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

- Missing Damper
- Missing Damper AC-2
- VFD Overload Dining Unit



11-20-23 PENN STATION - AVON, IN

Project Issue Information

Issue Name : Missing Damper
Description : Diffuser #7 for RTU-1 is not equipped with a balancing damper. This causes diffusers 4, 5, and 6 to fall below design CFM and 7 to be higher than design.

Created By : National TAB **Assigned To :** CAPTIVE-AIRE R120 - Dan Hertenstein

Status : Open
Priority : Medium **Asset Tag :**
Originated Date : 11/21/2023 - Jordan Best - National TAB



11-20-23 PENN STATION - AVON, IN

Project Issue Information

Issue Name : Missing Damper AC-2
Description : Missing balancing damper on diffuser 10 AC-2.
Created By : National TAB **Assigned To :** CAPTIVE-AIRE R120 - Dan Hertenstein
Status : Open
Priority : Medium **Asset Tag :**
Originated Date : 11/21/2023 - Jordan Best - National TAB



11-20-23 PENN STATION - AVON, IN

Project Issue Information

Issue Name : VFD Overload Dining Unit
Description : GC asked me to assist with testing fire suppression system to ensure hood fans activated and RTU's shut off. After testing system, RTU-2 VFD will not exceed 18.5 HZ before shutting off and showing a VFD OVERLOAD and LOW PROFILE PS error message. I observed the unit below FLA when setting outside air prior to fire system test.

Created By : National TAB **Assigned To :** CAPTIVE-AIRE R120 - Dan Hertenstein

Status : Open

Priority : [Medium](#) **Asset Tag :**

Originated Date : 11/21/2023 - Jordan Best - National TAB

AIR BALANCE SCHEDULE

UNIT	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	2000	2118	525	1958	1475	1453	73.8%	68.6%						
RTU-2	2000	1958	650	2279	1350	1408	67.5%	71.9%						
EF-1											1225	1231		
EF-2											550	542		
EF-3											800	800		
EF-3													70	74
EF-4													130	83
TOTALS	4000	4076	1175	4237	2825	2861			0	0	2575	2573	200	157

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	2825	2861
TOTAL EXHAUST	2775	2730
NET AIRFLOW	50	131

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H2O)
FRONT	0.0038
SIDE	-
REAR	0.0049
AVERAGE	0.0044

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

- 1-INITIAL SITE WALKTHROUGH
- 2-UNIT DATA AND EVALUATION
- 3-TEST, ADJUST, AND BALANCE
- 4-FINAL TESTS
- Site Pictures



11-20-23 PENN STATION - AVON, IN

CheckList Information

Name : 1-INITIAL SITE WALKTHROUGH **Status :** Not Completed
Assigned Organization : MULTIPLE **Asset :**
Requesting Organization : National TAB
Created Date : 11/20/2023 - Austin McFall - 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? No

Comment:

Thermostats have power? Yes

Comment:

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

Comment:



11-20-23 PENN STATION - AVON, IN

CheckList Information

Name : 2-UNIT DATA AND EVALUATION **Status :** Not Completed
Assigned Organization : MULTIPLE **Asset :**
Requesting Organization : National TAB
Created Date : 11/20/2023 - Austin McFall - 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:

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?

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?

No

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?

N/A

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?

No

Comment:

DOCUMENTATION

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

Comment:



11-20-23 PENN STATION - AVON, IN

CheckList Information

Name : 3-TEST, ADJUST, AND BALANCE **Status :** Not Completed
Assigned Organization : MULTIPLE **Asset :**
Requesting Organization : National TAB
Created Date : 11/20/2023 - Austin McFall - 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



11-20-23 PENN STATION - AVON, IN

CheckList Information

Name : 4-FINAL TESTS **Status :** Not Completed
Assigned Organization : MULTIPLE **Asset :**
Requesting Organization : National TAB
Created Date : 11/20/2023 - Austin McFall - National TAB

CheckList Item Details

FINAL TESTS

HOOD CAPTURE TEST

List equipment turned on for testing

Comment:

NONE

List smoke candle type used

Comment:

45 SECOND

Smoke test capture - Perimeter of hood

Comment:

100%

Smoke test capture - Top of cooking surface

Comment:

100%

- [Open](#) 20231120_125929.mp4
11/21/2023

WITNESS

Date test was completed

11/21/2023

Comment:

TAB tech name / Firm

Comment:

Jordan Best / NTi

Site super name / Firm

Comment:

Sean Curran / Curran Construction

Owner representative name / Firm (if Applicable)

Comment:

N/A

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

Comment:

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:



IMG_2226
11/21/2023

RTU-2



IMG_2227
11/21/2023

EF-1



IMG_2230
11/21/2023

EF-2



IMG_2229
11/21/2023

EF-3



IMG_2228
11/21/2023

EF-4



IMG_2232
11/21/2023

EF-5



IMG_2231
11/21/2023

HD-1



IMG_2223
11/21/2023

HD-2



IMG_2224
11/21/2023

HD-3



IMG_2225
11/21/2023

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Project: 11-20-23 PENN STATION - AVON, IN

System/Unit: AHU/RTU



Asset: RTU1

AREA: KITCHEN

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Serial Num	-	5882916
Model Num	CASRTU1-I.200-15-7.5T	CASRTU1-I.200-15-7.5T
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	29"X24"
Num Final Filter 1	-	8
Final Filter Size 1	-	16X16X2

Motor Data		
	Design	Actual
Motor MFG	-	ODP
Frame	-	145T
Horsepower	2.0	2.0
Motor Rpm	1740	1740
Phase	3	3
Rated Voltage	208	208
Rated Amperage	6.1	5.48

Test Data		
	Design	Actual
SF CFM	2000	1958
SF RPM	1502	1693
RA CFM	525	505
OA CFM	1475	1453
RL Voltage	-	210.2
RL Amperage	-	5.2
SF Rotation	-	CCW
RA Damper Position	-	NA
Min OA Damper Position	-	7.2 VDC
Min OA Damper Type	-	MOTORIZED

Performance Data		
	Design	Actual
MA Plenum SP	-	NA
Fan Suction SP	-	NA
Fan Discharge SP	-	NA
Total ESP	1.33"	NA
Fan Total SP	-	NA

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

Completed By: Jordan Best on 11/21/2023

Notes:

.Fan Speed Set Pt. 58 HZ.

.No balancing damper installed for diffuser 7, causing it to be higher than design CFM along with causing diffusers 4, 5, and 6 to fall below design.

Written By: Jordan Best on 11/21/2023

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Project:11-20-23 PENN STATION - AVON, IN

AHU/RTU



Diffuser Supply (GRD)

RTU1/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
RTU1-SGRD1	KITCHEN	4-WAY	10	300	1	337	306	306	102.0
RTU1-SGRD2	KITCHEN	4-WAY	10	300	1	341	297	297	99.0
RTU1-SGRD3	KITCHEN	PERFORATED	10	250	1	240	247	247	98.8
RTU1-SGRD4	KITCHEN	LINEAR	10	300	1	181	215	215	71.7
RTU1-SGRD5	KITCHEN	LINEAR	10	300	1	252	242	242	80.7
RTU1-SGRD6	KITCHEN	LINEAR	10	300	1	191	235	235	78.3
RTU1-SGRD7	KITCHEN	PERFORATED	10	250	1	377	416	416	166.4
Total				2000		1919	1958	1958	97.9%

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Project: 11-20-23 PENN STATION - AVON, IN

System/Unit: AHU/RTU



Asset: RTU2

AREA:DINING

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Serial Num	-	5882916
Model Num	CASRTU1-I.200-15-7.5T	CASRTU1-I.200-15-7.5T
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	29"X24"
Num Final Filter 1	-	8
Final Filter Size 1	-	16X16X2

Motor Data		
	Design	Actual
Motor MFG	-	ODP
Frame	-	145T
Horsepower	2.0	2.0
Motor Rpm	1740	1740
Phase	3	3
Rated Voltage	208	208
Rated Amperage	6.1	5.4

Test Data		
	Design	Actual
SF CFM	2200	2279
SF RPM	1504	1722
RA CFM	650	557
OA CFM	1350	1408
RL Voltage	-	209.9
RL Amperage	-	5.2
SF Rotation	-	CCW
RA Damper Position	-	NA
Min OA Damper Position	-	7 VDC
Min OA Damper Type	-	MOTORIZED

Performance Data		
	Design	Actual
MA Plenum SP	-	NA
Fan Suction SP	-	NA
Fan Discharge SP	-	NA
Total ESP	1.33"	NA
Fan Total SP	-	NA

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

Completed By: Jordan Best on 11/21/2023

Notes:
Fan Speed Set Pt. 59 HZ

Written By: Jordan Best on 11/21/2023

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Project:11-20-23 PENN STATION - AVON, IN

AHU/RTU



Diffuser Supply (GRD)

RTU2/DINING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
RTU2-SGRD1	DINING	4-WAY	10	300	1	535	327	327	109.0
RTU2-SGRD2	DINING	LINEAR	10	250	1	207	235	235	94.0
RTU2-SGRD3	DINING	LINEAR	10	300	1	416	322	322	107.3
RTU2-SGRD4	DINING	4-WAY	10	250	1	221	246	246	98.4
RTU2-SGRD5	DINING	4-WAY	10	250	1	220	260	260	104.0
RTU2-SGRD6	DINING	4-WAY	10	250	1	181	271	271	108.4
RTU2-SGRD7	DINING	4-WAY	10	250	1	174	241	241	96.4
RTU2-SGRD8	WOMEN'S RR	ROUND	6	70	1	87	76	76	108.6
RTU2-SGRD9	MEN'S RR	ROUND	8	130	1	130	142	142	109.2
RTU2-SGRD10	HALL	4-WAY	8	150	1	137	159	159	106.0
Total				2200		2308	2279	2279	103.59%

Completed By: Jordan Best on 11/21/2023

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Project: 11-20-23 PENN STATION - AVON, IN

System/Unit: FAN - Exhaust



Asset: EF1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU85HFA	DU85HFA
Serial Num	-	5882916
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TEAO-ECM
Horsepower	0.75	0.75
Motor Rpm	1800	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	8.9
Service Factor	-	1.0

Test Data		
	Design	Actual
CFM	1225	1231
Fan RPM	1240	1018
Fan Rotation	-	CCW
Motor RPM	-	1018
System SetPt	-	55%
RL Voltage	-	121.2
RL Amperage	-	3.19/3.15
Total ESP	1.15"	0.61"
Fan Inlet SP	-	-0.61"
Fan Discharge SP	-	ATM

Completed By: Jordan Best on 11/20/2023

National TAB

Project: 11-20-23 PENN STATION - AVON, IN

System/Unit: FAN - Exhaust



Asset: EF2

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU85HFA	DU33HFA
Serial Num	-	5882916
Type	VERTICAL	VERTICAL
Configuration	UPBLAST	UPBLAST

Motor Data		
	Design	Actual
Motor MFG	-	TEAO-ECM
Horsepower	0.33	0.33
Motor Rpm	1800	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	4.3
Service Factor	-	1.0

Test Data		
	Design	Actual
CFM	550	542
Fan RPM	1259	1122
Fan Rotation	-	CCW
Motor RPM	-	1122
System SetPt	-	60%
RL Voltage	-	122.4
RL Amperage	-	1.29/1.28
Total ESP	0.60"	0.31"
Fan Inlet SP	-	-0.31"
Fan Discharge SP	-	ATM

Completed By: Jordan Best on 11/20/2023

National TAB

Project: 11-20-23 PENN STATION - AVON, IN

System/Unit: FAN - Exhaust



Asset: EF3

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU85HFA	DU85HFA
Serial Num	-	5882916
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TEAO-ECM
Horsepower	0.75	0.75
Motor Rpm	1800	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	8.9
Service Factor	-	1.0

Test Data		
	Design	Actual
CFM	800	800
Fan RPM	1210	1128
Fan Rotation	-	CCW
Motor RPM	-	1128
System SetPt	-	60%
RL Voltage	-	121.7
RL Amperage	-	4.03/4.05
Total ESP	1.2"	0.83"
Fan Inlet SP	-	-0.83"
Fan Discharge SP	-	ATM

Completed By: Jordan Best on 11/20/2023

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Project: 11-20-23 PENN STATION - AVON, IN

System/Unit: FAN - Exhaust



Asset: EF4

AREA:

Unit Data		
	Design	Actual
MFG	NA	BROAN
Model Num	NA	HD80L-D
Serial Num	-	NL

Test Data		
	Design	Actual
CFM	70	74

Motor Data		
	Design	Actual
Motor MFG	-	BROAD OCEAN MOTOR COMPANY
Horsepower	-	NL
Motor Rpm	-	1400
Phase	-	1
Voltage (rated)	-	120
Amperage (rated)	-	1.5

Completed By: Jordan Best on 11/20/2023

Notes:

Women's RR

Written By: Jordan Best on 11/20/2023

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Project: 11-20-23 PENN STATION - AVON, IN

System/Unit: FAN - Exhaust



Asset: EF5

AREA:

Unit Data		
	Design	Actual
MFG	NA	BROAN
Model Num	NA	HB80L-D
Serial Num	-	NL

Test Data		
	Design	Actual
CFM	130	83

Motor Data		
	Design	Actual
Motor MFG	-	BROAD OCEAN MOTOR COMPANY
Horsepower	-	NL
Motor Rpm	-	1400
Phase	-	1
Voltage (rated)	-	120
Amperage (rated)	-	1.5

Completed By: Jordan Best on 11/20/2023

Notes:

- .Men's RR
- .Fan does not reach design CFM, not equipped with speed controller.
- .Designed for 80 CFM according to tag on fan.

Written By: Jordan Best on 11/20/2023

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Project: 11-20-23 PENN STATION - AVON, IN

System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	4412-PS-OVN	3650BD-2
Job / Serial Num	-	5882916
Type	TYPE I	TYPE I
Hood length	84"	84"
Hood Width	36"	36"

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	-	165
Filter2 FPM	-	150
Filter3 FPM	-	158
Filter4 FPM	-	152
Filter5 FPM	-	137
Filter Ave FPM(corr)	-	152
CFM	1225	1231

Cooking Equipment		
	Design	Actual
Item 1	-	GRIDDLE

Completed By: Jordan Best on 11/20/2023

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Project: 11-20-23 PENN STATION - AVON, IN

System/Unit: Kitchen Hood Type I



Asset: HD2

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	4412-PS-OVN	4412-PS-OVN
Job / Serial Num	-	5882916
Type	TYPE I	TYPE I
Hood length	44"	44"
Hood Width	21"	21"

Test Data Exhaust		
	Design	Actual
Filter Type	BAFFLE	BAFFLE
Filter Size 1	10X20	10X20
Filter Qty 1	2	2
Filter AK factor size 1	1.2	1.2
Filter Total AK Area	2.4	2.4
Filter1 FPM	-	225
Filter2 FPM	-	227
Filter Ave FPM(corr)	-	226
CFM	550	542

Cooking Equipment		
	Design	Actual
Item 1	-	CONVEYOR OVEN

Completed By: Jordan Best on 11/20/2023

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Project: 11-20-23 PENN STATION - AVON, IN

System/Unit: Kitchen Hood Type I



Asset: HD3

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	4412-PS-OVN	3650BD-2
Job / Serial Num	-	5882916
Type	TYPE I	TYPE I
Hood length	50"	50"
Hood Width	36"	36"

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	-	167
Filter2 FPM	-	167
Filter3 FPM	-	160
Filter Ave FPM(corr)	-	164
CFM	800	800

Cooking Equipment		
	Design	Actual
Item 1	-	FRYER

Completed By: Jordan Best on 11/20/2023