

Report By:

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



Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 12/14/2023

PROJECT
12-11-23 CULVERS- PADDOCK LAKE, WI

7600 Antioch RD.

Paddock Lake, WI 53168

Client

McCon Building Corporation
1059 Circle Drive
PO Box 247
Highland, WI 53543

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

- RTU-1: Return / Supply Diffuser Proximity



12-11-23 CULVERS- PADDOCK LAKE, WI

Project Issue Information

Issue Name : RTU-1: Return / Supply Diffuser Proximity
Description : In the dining area, a return and supply serving RTU-1 are positioned directly next to each other. This will cause short cycling. Recommend return and/or supply are repositioned.
Created By : National TAB **Assigned To :** National TAB - Michael McDonnell
Status : Open
Priority : Low **Asset Tag :**
Originated Date : 12/13/2023 - Michael McDonnell - National TAB

Project Issue File Details



Dininglocation
12/13/2023



Proximity
12/13/2023

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	6150	6073	4400	4261	1750	1812	28.5%	29.8%						
RTU-2	KITCHEN	6225	6246	4525	4460	1700	1786	27.3%	28.6%						
PRV-2	HOOD 1											1500	1547		
PRV-3	HOOD 2											1500	1502		
PRV-1	RESTROOMS													300	296
EF-1A	EMPLOYEE RR													75	82
EF-1A	MOP ROOM													75	81
TOTALS		12375	12319	8925	8721	3450	3598			0	0	3000	3049	450	459

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	3450	3598
TOTAL EXHAUST	3450	3508
NET AIRFLOW	0	90

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H2O)
FRONT	0.004
SIDE	0.004
REAR	0.005
AVERAGE	0.0043

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:

[1] BUILDING NOT COMPLETELY SEALED AT TIME OF PRESSURE READING.

CheckList List

- 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



RTU-1-Dining
12/14/2023



Label
12/14/2023

RTU-2

Comment:



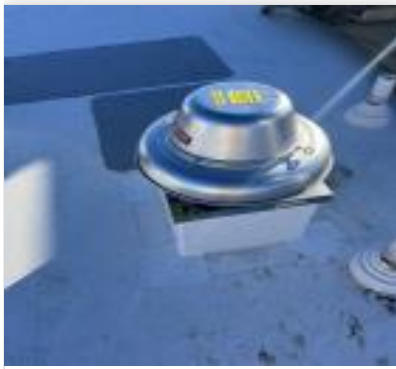
RTU-2-Kitchen
12/14/2023



Label
12/14/2023

PRV-1

Comment:



PRV-1-RR
12/14/2023



Label
12/14/2023



BackdraftDamper
12/14/2023

PRV-2

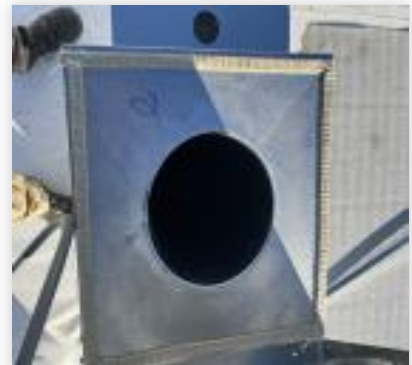
Comment:



PRV-2-HD2-Fryer
12/14/2023



Label
12/14/2023



Duct
12/14/2023

HOOD 2

Comment:



HD2-Griddle
12/14/2023



Label
12/14/2023

PRV-3

Comment:



PRV3-HD1-Fryer
12/14/2023



Label
12/14/2023



Duct
12/14/2023

HOOD 1

Comment:



HD1-Fryer
12/14/2023



Label
12/14/2023

EF-1A (MOP)

Comment:



Mopfan
12/14/2023

EF-1A (RR)

Comment:



EmployeeRR
12/14/2023



12-11-23 CULVERS- PADDOCK LAKE, WI

CheckList Information

Name : TECH - STEP 1: INITIAL WALKTHROUGH **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 12/12/2023 - Wale Odofin - National TAB

CheckList Item Details

INITIAL SITE WALKTHROUGH

All diffusers and grilles are installed and match design? Yes

Comment:

Perforated diffusers are installed on the cook line? (4-ways will disrupt hood capture) Yes

Comment:

All hood filters installed and accounted for? Yes

Comment:

Hoods are wired and have power? Yes

Comment:

Thermostats have power? Yes

Comment:

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

Comment:

Yes



12-11-23 CULVERS- PADDOCK LAKE, WI

CheckList Information

Name : TECH - STEP 2: UNIT DATA AND EVAL **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 12/12/2023 - Wale Odofin - 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:

Thermostat wire run from OCP on the RTU to the Ec terminal at the thermostat? If no, jumper can be installed from R to OCP temporarily. (The economizers will not open without OCP being energized.) N/A

Comment:

NA, Captive Aire DOAS units installed. Interlocked with hood operation for occupancy.

Motors are all operating below the FLA rating? Yes

Comment:

DOAS units operating below unit sticker rating of 27.0 amps based on line voltage.

Are belts tight?

Comment:

NA, Direct Drive Units.

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

No

Comment:

Both units need to operate on the high end to achieve design airflow and are creating the usual but substantial noise; vibrating entire building. In my experience this is typical with Captive Aire Units.

EF's

Rotation is correct?

Yes

Comment:

Belts are tight?

Comment:

NA, Direct Drive

Grease cup installed on hood fan?

Yes

Comment:

Hinge kit installed installed on hood fan?

Yes

Comment:

Lean grease rated fans 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:

The hood exhaust fans are installed in correct positions and are not switched? Yes

Comment:

HOODS

Kitchen equipment installed in proper places? No

Comment:

Kitchen equipment not yet started up.

Can kitchen equipment be turned on for final smoke test? No

Comment:

Kitchen equipment not yet started up.

Second stage Grease Grabber filters are installed on the griddle hood? N/A

Comment:

Captive Aire, not Accurex hoods installed. Do not utilize second stage filters.

DOCUMENTATION

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

Comment:

Notes/Comments :

[1] HOOD QUARTER END PANELS NOT INSTALLED. FOUND ON SITE. DO NOT HAVE SUBMITTALS TO VERIFY.

Date :12/14/2023



12-11-23 CULVERS- PADDOCK LAKE, WI

CheckList Information

Name : TECH - STEP 3: TEST, ADJUST AND BALANCE **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 12/12/2023 - Wale Odofin - National TAB

CheckList Item Details

TEST, ADJUST, AND BALANCE ALL EQUIPMENT:

DURING TESTING MAKE NOTE OF THE FOLLOWING:

Is space free of drafting?	Yes
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Comment:

Is space comfortable in all areas?	Yes
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Comment:

Is the space free of ventilation noise?	Yes
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Comment:

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

Comment:

NA



12-11-23 CULVERS- PADDOCK LAKE, WI

CheckList Information

Name : TECH - STEP 4: FINAL TESTS **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 12/12/2023 - Wale Odofin - National TAB

CheckList Item Details

FINAL TESTS

HOOD CAPTURE TEST

List equipment turned on for testing

Comment:

None, equipment not yet started up.

List smoke candle type used

Comment:

45 sec smoke emitter.

Smoke test capture - Perimeter of hood

Comment:

100%

Smoke test capture - Top of cooking surface

Comment:

100%

WITNESS

Date test was completed

12/14/2023

Comment:

TAB tech name / Firm

Comment:

Michael McDonnell / National Tab

Site super name / Firm

Comment:

Adam Pick / McCon

Owner representative name / Firm (if Applicable)

Comment:

NA

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

Comment:

Front: 0.004" Rear: 0.005" Side: 0.004"

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:

Yes, interlocked with hood operation for occupancy.

National TAB

Project: 12-11-23 CULVERS- PADDOCK LAKE, WI

System/Unit: AHU/RTU



Asset: RTU1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Serial Num	-	6028200
Model Num	CASRTU3-I.400-24-20TGT	CASRTU3-I.400-24-20T
Type	RTU	DOAS
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	4
OA Filter Size 1	-	16X25X2
Num Final Filter 1	-	8
Final Filter Size 1	-	20X25X2

Test Data		
	Design	Actual
SF CFM	6150	6073
SF RPM	-	1667
RA CFM	4400	4261
OA CFM	1750	1812
RL Voltage	-	189 @VFD
RL Amperage	-	24.0 @VFD
SF Rotation	-	CCW, CORRECT
Min OA Damper Position	-	4.9V
Min OA Damper Type	-	ECONOMIZER

Motor Data		
	Design	Actual
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	215T
Horsepower	-	10.0
Motor Rpm	-	1755
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	27.0

Performance Data		
	Design	Actual
Fan Discharge SP	-	0.684"

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

Drive Data		
	Design	Actual
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	57.0 HZ
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

Completed By: Michael McDonnell on 12/18/2023

National TAB

Project:12-11-23 CULVERS- PADDOCK LAKE, WI

AHU/RTU



Diffuser Supply (GRD)

RTU1/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	ENTRY	SD-4	8"	150	1.0	158	183	144	96.0
SGRD2	DINING	SD-1	8"	150	1.0	126	147	156	104.0
SGRD3	DINING	SD-1	8"	150	1.0	95	118	138	92.0
SGRD4	DINING	SD-1	8"	150	1.0	120	139	143	95.3
SGRD5	DINING	SD-1	8"	150	1.0	133	135	146	97.3
SGRD6	DINING	SD-1	8"	150	1.0	153	173	140	93.3
SGRD7	DINING	SD-1	8"	150	1.0	128	168	161	107.3
SGRD8	DINING	SD-1	8"	150	1.0	172	196	156	104.0
SGRD9	DINING	SD-1	8"	150	1.0	143	147	162	108.0
SGRD10	DINING	SD-1	8"	150	1.0	223	263	164	109.3
SGRD11	DINING	SD-1	8"	150	1.0	122	133	143	95.3
SGRD12	DINING	SD-1	8"	150	1.0	124	131	147	98.0
SGRD13	DINING	SD-1	8"	150	1.0	136	164	145	96.7
SGRD14	DINING	SD-1	8"	150	1.0	120	141	154	102.7
SGRD15	DINING	SD-1	8"	150	1.0	131	164	159	106.0
SGRD16	DRINKS	SD-1	10"	300	1.0	325	366	325	108.3
SGRD17	ENTRY	SD-1	8"	150	1.0	183	218	150	100.0
SGRD18	SUNDAE	SD-1	10"	500	1.0	267	282	455	91.0
SGRD19	OFFICE	SD-1	8"	200	1.0	169	200	184	92.0
SGRD20	CUST. SERV	SD-1	12"	450	1.0	416	497	435	96.7
SGRD21	CUST. SERV	SD-1	10"	350	1.0	272	315	341	97.4
SGRD22	CUST. SERV	SD-1	10"	350	1.0	278	340	331	94.6
SGRD23	CUST. SERV	SD-1	10"	350	1.0	279	322	343	98.0
SGRD24	CUST. SERV	SD-1	10"	350	1.0	246	277	315	90.0
SGRD25	DINING	SD-1	8"	150	1.0	170	200	149	99.3
SGRD26	HALL	SD-1	12"	450	1.0	391	461	475	105.6
SGRD27	RESTROOM	SD-4	8"	150	1.0	206	258	165	110.0
SGRD28	RESTROOM	SD-4	8"	150	1.0	130	145	147	98.0
Total				6150		5416	6283	6073	98.75%

Completed By: Michael McDonnell on 12/13/2023

National TAB

Project: 12-11-23 CULVERS- PADDOCK LAKE, WI

System/Unit: AHU/RTU



Asset: RTU2

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Serial Num	-	6028200
Model Num	CASRTU3-I.250-24-20T	CASRTU3-I.250-24-20T
Type	RTU	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	-	TECO WESTINGHOUSE
Frame	-	215T
Horsepower	-	10.0
Motor Rpm	-	1755
Phase	3	3
Rated Voltage	208	230
Rated Amperage	-	27.0

Drive Data		
	Design	Actual
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	58.0 HZ
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

Test Data		
	Design	Actual
SF CFM	6225	6246
SF RPM	-	1697
RA CFM	4525	4460
OA CFM	1700	1786
RL Voltage	-	193 @VFD
RL Amperage	-	25.2B@VFD
SF Rotation	-	CCW, CORRECT
Min OA Damper Position	-	6.0V
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	Actual
Fan Discharge SP	-	0.785"

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

Completed By: Michael McDonnell on 12/18/2023

National TAB

Project:12-11-23 CULVERS- PADDOCK LAKE, WI

AHU/RTU



Diffuser Supply (GRD)

RTU2/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	KITCHEN	SD-1	12"	600	1.0	361	423	570	95.0
SGRD2	KITCHEN	SD-1	12"	600	1.0	193	213	585	97.5
SGRD3	KITCHEN	SD-5	10"	275	1.0	294	325	269	97.8
SGRD4	KITCHEN	SD-5	10"	250	1.0	319	345	251	100.4
SGRD5	KITCHEN	SD-5	12"	400	1.0	515	574	388	97.0
SGRD6	KITCHEN	SD-5	12"	400	1.0	424	485	429	107.3
SGRD7	KITCHEN	SD-5	12"	375	1.0	481	532	376	100.3
SGRD8	KITCHEN	SD-5	10"	200	1.0	220	258	196	98.0
SGRD9	KITCHEN	SD-5	12"	350	1.0	520	575	351	100.3
SGRD10	KITCHEN	SD-5	12"	350	1.0	384	435	371	106.0
SGRD11	KITCHEN	SD-5	12"	350	1.0	401	459	349	99.7
SGRD12	UTILITY RM	SD-1	12"	600	1.0	402	460	593	98.8
SGRD13	UTILITY RM	SD-1	12"	600	1.0	400	447	602	100.3
SGRD14	TOILET	SD-4	6"	75	1.0	53	45	76	101.3
SGRD15	DRY GOODS	SD-1	12"	600	1.0	422	452	639	106.5
SGRD16	DRY GOODS	SD-1	10"	200	1.0	234	279	201	100.5
Total				6225		5623	6307	6246	100.34%

Completed By: Michael McDonnell on 12/13/2023

National TAB

Project: 12-11-23 CULVERS- PADDOCK LAKE, WI

System/Unit: FAN - Exhaust



Asset: EFA1

AREA:EMPLOYEE RR

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	CFA 100CA	CFA 100CA
Serial Num	-	6028200
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	NL
Horsepower	-	0.116
Motor Rpm	-	640
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	1.1

Test Data		
	Design	Actual
CFM	75	82
Fan RPM	493	DD
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	DD
System SetPt	-	SINGLE SPEED
RL Voltage	-	121
RL Amperage	-	1.0

Completed By: Michael McDonnell on 12/14/2023

National TAB

Project: 12-11-23 CULVERS- PADDOCK LAKE, WI

System/Unit: FAN - Exhaust



Asset: EFA1

AREA:MOP ROOM

Unit Data		
	Design	Actual
MFG	CAPTIVE AIRE	CAPTIVE AIRE
Model Num	NA	CFA 100CA
Serial Num	-	6028200
Type	-	CEILING
Configuration	-	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	NL
Horsepower	-	0.116
Motor Rpm	-	640
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	1.1

Test Data		
	Design	Actual
CFM	-	81
Fan RPM	-	DD
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	DD
System SetPt	-	SINGLE SPEED
RL Voltage	-	121
RL Amperage	-	1.0

Completed By: Michael McDonnell on 12/14/2023

National TAB

Project: 12-11-23 CULVERS- PADDOCK LAKE, WI

System/Unit: FAN - Exhaust



Asset: PRV1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DR12HFA	DR12HFA
Serial Num	-	6028200
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Horsepower	-	0.25
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	2.9

Test Data		
	Design	Actual
CFM	300	296
Fan RPM	1288	1448
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	1448
System SetPt	-	75%
RL Voltage	-	121
RL Amperage	-	1.1
Total ESP	0.5"	0.34"
Fan Inlet SP	-	-0.34"
Fan Discharge SP	-	

Completed By: Michael McDonnell on 12/13/2023

National TAB

Project: 12-11-23 CULVERS- PADDOCK LAKE, WI

FAN - Exhaust



Diffuser Ret/Exh (GRD)

PRV1/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	M RR	EG1	10X10	150	1.0	132	158	158	105.3
EGRD2	W RR	EG1	10X10	150	1.0	115	138	138	92.0
Total				300		247	296	296	98.67%

Completed By: Michael McDonnell on 12/13/2023

National TAB

Project: 12-11-23 CULVERS- PADDOCK LAKE, WI

System/Unit: FAN - Exhaust



Asset: PRV2

AREA:GRIDDLE

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU85HFA	DU85HFA
Serial Num	-	6028200
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Horsepower	-	1.0
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	11.6

Test Data		
	Design	Actual
CFM	1500	1510
Fan RPM	1348	1221
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	1221
System SetPt	-	61%
RL Voltage	-	122.3
RL Amperage	-	3.4
Total ESP	1.412	0.956"
Fan Inlet SP	-	-0.956"
Fan Discharge SP	-	ATM

Completed By: Michael McDonnell on 12/13/2023

Notes:

[1] FAN SPEED CONTROLLED BY SPEED CONTROLLER IN FAN HOUSING.

Written By: Michael McDonnell on 12/14/2023

National TAB

Project: 12-11-23 CULVERS- PADDOCK LAKE, WI

System/Unit: FAN - Exhaust



Asset: PRV3

AREA:FRYER

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	DU85HFA	DU85HFA
Serial Num	-	6028200
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Horsepower	-	1.0
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	11.6

Test Data		
	Design	Actual
CFM	1500	1547
Fan RPM	1348	1104
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	1104
System SetPt	-	56%
RL Voltage	-	122.5
RL Amperage	-	2.5
Total ESP	1.250"	0.871"
Fan Inlet SP	-	-0.871"
Fan Discharge SP	-	ATM

Completed By: Michael McDonnell on 12/13/2023

Notes:

[1] FAN SPEED CONTROLLED BY SPEED CONTROLLER IN FAN HOUSING.

Written By: Michael McDonnell on 12/14/2023

National TAB

Project: 12-11-23 CULVERS- PADDOCK LAKE, WI

System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	3347BD-2	3347BD-2
Job / Serial Num	-	6028200
Type	TYPE I	TYPE I
Hood length	84"	84"
Hood Width	33"	33"

Test Data Exhaust		
	Design	Actual
Filter Type	SOLO FILTER	SOLO FILTER
Filter Size 1	16X16	16X16
Filter Qty 1	5	5
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	8.10	8.10
Filter1 FPM	-	195
Filter2 FPM	-	197
Filter3 FPM	-	197
Filter4 FPM	-	206
Filter5 FPM	-	164
Filter Ave FPM(corr)	-	191
CFM	1500	1547

Cooking Equipment		
	Design	Actual
Item 1	-	FRYER

Completed By: Michael McDonnell on 12/13/2023

Notes:

[1] QUARTER END PANELS NOT INSTALLED.

[2] FAN SPEED NOT CONTROLLED THROUGH HMI, SPEED CONTROLLER MOUNTED IN FAN HOUSING.

Written By: Michael McDonnell on 12/14/2023

National TAB

Project: 12-11-23 CULVERS- PADDOCK LAKE, WI

System/Unit: Kitchen Hood Type I



Asset: HD2

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	3347BD-2	3347BD-2
Job / Serial Num	-	6028200
Type	TYPE I	TYPE I
Hood length	66"	66"
Hood Width	33"	33"

Test Data Exhaust		
	Design	Actual
Filter Type	SOLO FILTER	SOLO FILTER
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	-	245
Filter2 FPM	-	236
Filter3 FPM	-	232
Filter4 FPM	-	220
Filter Ave FPM(corr)	-	233
CFM	1500	1510

Cooking Equipment		
	Design	Actual
Item 1	-	GRIDDLE

Completed By: Michael McDonnell on 12/13/2023

Notes:

[1] QUARTER END PANELS NOT INSTALLED.

[2] FAN SPEED NOT CONTROLLED THROUGH HMI, SPEED CONTROLLER MOUNTED IN FAN HOUSING.

Written By: Michael McDonnell on 12/14/2023

