

Report By:

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



Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 11/01/2023

PROJECT
10-30-23 CULVERS - TITUSVILLE, FL (FAN
CERT)

2855 CHENEY HWY

TITUSVILLE, FL 32780

Client

Accurex
PO Box 410

Schofield, WI 54476

National TAB

Project: 10-30-23 CULVERS - TITUSVILLE, FL (FAN CERT)

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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)

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.

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	5200	5091	3200	3079	2000	2012	38.5%	39.5%						
RTU-2	KITCHEN	5000	4886	3000	3009	2000	1877	40.0%	38.4%						
PRV-2	HOOD 1											1500	1507		
PRV-3	HOOD 2											1500	1487		
PRV-4	HOOD 3											350	321		
EF-1	RESTROOM													220	228
EF-2	MOP ROOM													50	47
EF-3A	RESTROOM													70	65
EF-3B	RESTROOM													70	64
TOTALS		10200	9977	6200	6088	4000	3889			0	0	3350	3315	410	404

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	4000	3889
TOTAL EXHAUST	3760	3719
NET AIRFLOW	240	170

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H2O)
FRONT	0.0042
SIDE	
REAR	0.0039
AVERAGE	0.0041

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

- SITE PICTURES



RTU_1
11/01/2023

RTU-2

Comment:



RTU_2
11/01/2023

PRV-2

Comment:



PRV_2
11/01/2023

PRV-3

Comment:



PRV_3
11/01/2023

PRV-4

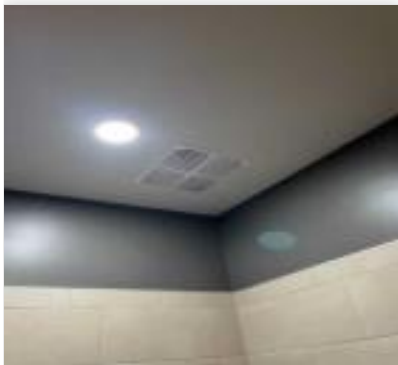
Comment:



PRV_4
11/01/2023

EF-1

Comment:



EF_1
11/01/2023

EF-2

Comment:



EF_2
11/01/2023

EF-3

Comment:

FAN COVER TO BE INSTALLED BY MC.



EF_3A
11/01/2023



EF_3B
11/01/2023

HOOD-1

Comment:



HOOD_1
11/01/2023

HOOD-2

Comment:



HOOD_2
11/01/2023

CheckList List

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



10-30-23 CULVERS - TITUSVILLE, FL (FAN CERT)

CheckList Information

Name : ACCUREX HOOD CERTIFICATION **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 10/30/2023 - Stephen Tassinaro - National TAB

CheckList Item Details

HD-1

Hood Photos

Comment:



HOOD_1
11/01/2023



HOOD_2
11/01/2023

Exhaust Fan Photo

Comment:



PRV_2
11/01/2023



PRV_3
11/01/2023

Is the hood powered and free of alarms?

Comment:

YES

Does hood label match submittal?

Comment:

YES

Do hood dimensions match submittal?

Comment:

YES

Is the hood hung Level?

Comment:

YES

Are hood lights installed and are they powered?

Comment:

YES

Are temperature Sensors installed?

Comment:

YES

Are the correct number and size of filters installed, and are they installed correctly?

Comment:

YES

Is the grease cup installed?

Comment:

YES

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

Comment:

YES

Is the backsplash installed and does it match the submittal?

Comment:

YES

Are ceiling enclosures installed and do they match the submittal?

Comment:

YES

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

Comment:

YES

Document any other issues or discrepancies.

Comment:

N/A

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:

45S SMOKE EMITTER



10-30-23 CULVERS - TITUSVILLE, FL (FAN CERT)

CheckList Information

Name : TECH - STEP 1: INITIAL WALKTHROUGH **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 10/09/2023 - 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



10-30-23 CULVERS - TITUSVILLE, FL (FAN CERT)

CheckList Information

Name : TECH - STEP 2: UNIT DATA AND EVAL **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 10/09/2023 - 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:

N/A CAPTIVE AIRE DOAS SYSTEM INSTALLED

Motors are all operating below the FLA rating? Yes

Comment:

Are belts tight?

Comment:

N/A, DIRECT DRIVE

If direct drive unit is the speed controller working.

Comment:

YES

Is gas piping installed and valves turned on?

No

Comment:

GAS TO BE TURNED ON END OF WEEK. NOT REQUIRED FOR TAB.

Unit free of noticeable noise and vibration

Yes

Comment:

EF's

Rotation is correct?

Yes

Comment:

Belts are tight?

Comment:

N/A - 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?

No

Comment:

NO LEAKAGE FOUND

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? Yes

Comment:

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

Comment:

STARTUPS NOT COMPLETED. WAITING ON GAS.

Second stage Grease Grabber filters are installed on the griddle hood? Yes

Comment:

DOCUMENTATION

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

Comment:

JAX REFRIGERATION - 904.249.1400



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CheckList Information

Name : TECH - STEP 3: TEST, ADJUST AND BALANCE **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 10/09/2023 - 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
----------------------------	-----

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



10-30-23 CULVERS - TITUSVILLE, FL (FAN CERT)

CheckList Information

Name : TECH - STEP 4: FINAL TESTS **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 10/09/2023 - Wale Odofin - National TAB

CheckList Item Details

FINAL TESTS

HOOD CAPTURE TEST

List equipment turned on for testing

Comment:

NONE

List smoke candle type used

Comment:

45S SMOKE EMITTER

Smoke test capture - Perimeter of hood

Comment:

100%

Smoke test capture - Top of cooking surface

Comment:

100%

WITNESS

Date test was completed

10/31/2023

Comment:

TAB tech name / Firm

Comment:

STEPHEN TASSINARO / NTi

Site super name / Firm

Comment:

N/A

Owner representative name / Firm (if Applicable)

Comment:

N/A

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

Comment:

+0.0041" AVG

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:

PRODIGY SETTINGS FOR RTU'S

Parameter 65 set to 0

N/A

Comment:

Parameter 78 set to 0

N/A

Comment:

Parameter 105 set to 6

N/A

Comment:

Parameter 156 set to 70 (Dining unit only)

N/A

Comment:

Parameter 156 set to 65 (Kitchen Unit Only)

N/A

Comment:

Parameter 170 set to 75 (Dining Unit Only)

N/A

Comment:

Parameter 170 set to 70 (Kitchen Unit Only)

N/A

Comment:

Parameter 131 set to the same % as OA minimum position?

N/A

Comment:

Parameter 117 set to the same % as OA minimum position?

N/A

Comment:

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Project: 10-30-23 CULVERS - TITUSVILLE, FL (FAN CERT)

System/Unit: AHU/RTU



Asset: RTU1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Serial Num	-	5476831
Model Num	CASTRU452-24-2OT	CASRTU3-E.452-24-20T
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

Test Data		
	Design	Actual
SF CFM	5200	5091
SF RPM	-	56HZ
RA CFM	3200	3079
OA CFM	2000	2012
RL Voltage	-	211/212/213
RL Amperage	-	20.8 VFD
SF Rotation	-	CCW
RA Damper Position	-	5.0V
Min OA Damper Position	-	5.0V
Min OA Damper Type	-	ECONOMIZER

Motor Data		
	Design	Actual
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	213T
Horsepower	-	7.5
Motor Rpm	-	1755
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	21.1

Performance Data		
	Design	Actual
Fan Suction SP	-	-1.96"
Fan Discharge SP	-	0.77"
Fan Total SP	-	2.73"

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	-	DD
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

Completed By: Stephen Tassinaro on 11/01/2023

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Project:10-30-23 CULVERS - TITUSVILLE, FL (FAN CERT)

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	A4	8"	150	1	218	144	144	96.0
SGRD2	DINING	A4	8"	150	1	83	141	141	94.0
SGRD3	DINING	A3	10"	300	1	261	295	295	98.3
SGRD4	DINING	A4	10"	250	1	254	270	270	108.0
SGRD5	DINING	A3	10"	300	1	298	329	329	109.7
SGRD6	DINING	A3	10"	225	1	185	216	216	96.0
SGRD7	DINING	A4	8"	200	1	150	181	181	90.5
SGRD8	DINING	A4	10"	275	1	216	254	254	92.4
SGRD9	DINING	A4	10"	250	1	334	254	254	101.6
SGRD10	DINING	A4	10"	275	1	241	251	251	91.3
SGRD11	DINING	A3	10"	225	1	306	217	217	96.4
SGRD12	DINING	A3	8"	200	1	231	186	186	93.0
SGRD13	DINING	A3	10"	300	1	298	325	325	108.3
SGRD14	DINING	A4	10"	300	1	271	273	273	91.0
SGRD15	DINING	A4	10"	250	1	294	253	253	101.2
SGRD16	CUST.AREA	A4	10"	300	1	276	323	323	107.7
SGRD17	CUST.AREA	A4	8"	200	1	212	187	187	93.5
SGRD18	CUST.AREA	A4	8"	200	1	207	181	181	90.5
SGRD19	CUST.AREA	A4	8"	200	1	221	187	187	93.5
SGRD20	CUST.AREA	A4	8"	200	1	205	183	183	91.5
SGRD21	DINING	A4	8"	300	1	315	289	289	96.3
SGRD22	RESTROOM	C3	6"	75	1	118	75	75	100.0
SGRD23	RESTROOM	C3	6"	75	1	129	77	77	102.7
Total				5200		5323	5091	5091	97.9%

Completed By: Stephen Tassinaro on 11/01/2023

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Project: 10-30-23 CULVERS - TITUSVILLE, FL (FAN CERT)

System/Unit: AHU/RTU



Asset: RTU2

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Serial Num	-	5476831
Model Num	CASTRU452-24-2OT	CASRTU3-E.452-24-20T
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	-	TECO WESTINGHOUSE
Frame	-	213T
Horsepower	-	7.5
Motor Rpm	-	1755
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	21.1

Drive Data		
	Design	Actual
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	DD
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	5000	4886
SF RPM	-	56HZ
RA CFM	3000	2999
OA CFM	2000	1887
RL Voltage	-	211/212/213
RL Amperage	-	20.5 VFD
SF Rotation	-	CCW
RA Damper Position	-	5.1V
Min OA Damper Position	-	4.9V
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	Actual
Fan Suction SP	-	-2.30"
Fan Discharge SP	-	0.70"
Fan Total SP	-	3.00"

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

Completed By: Stephen Tassinaro on 11/01/2023

Notes:

56HZ

Written By: Stephen Tassinaro on 10/31/2023

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Project:10-30-23 CULVERS - TITUSVILLE, FL (FAN CERT)

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	A4	12"	500	1	356	419	490	98.0
SGRD2	KITCHEN	A4	10"	300	1	237	267	309	103.0
SGRD3	KITCHEN	E4	12"	550	1	296	342	496	90.2
SGRD4	KITCHEN	D1	9"	225	1	257	195	225	100.0
SGRD5	KITCHEN	E4	10"	300	1	282	226	276	92.0
SGRD6	KITCHEN	E4	10"	350	1	269	310	371	106.0
SGRD7	KITCHEN	E4	10"	300	1	277	240	299	99.7
SGRD8	KITCHEN	E4	10"	300	1	281	247	304	101.3
SGRD9	KITCHEN	E4	10"	350	1	332	276	325	92.9
SGRD10	KITCHEN	E3	10"	300	1	255	314	312	104.0
SGRD11	KITCHEN	C1	4"	25	1	110	18	23	92.0
SGRD12	KITCHEN	A4	8"	150	1	187	122	136	90.7
SGRD13	KITCHEN	A4	8"	350	1	305	354	368	105.1
SGRD14	KITCHEN	A4	10"	350	1	224	276	319	91.1
SGRD15	KITCHEN	A4	10"	300	1	269	317	301	100.3
SGRD16	KITCHEN	A4	8"	200	1	157	192	196	98.0
SGRD17	KITCHEN	D1	8"	150	1	75	100	136	90.7
Total				5000		4169	4215	4886	97.72%

Completed By: Stephen Tassinaro on 10/31/2023

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Project: 10-30-23 CULVERS - TITUSVILLE, FL (FAN CERT)

System/Unit: FAN - Exhaust



Asset: EF1

AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XCR-A200	XCR-A200
Serial Num	-	2206704
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Frame	-	N/L
Horsepower	-	1/40
Motor Rpm	-	900
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.46
Service Factor	-	N/L

Test Data		
	Design	Actual
CFM	220	228
Fan RPM	-	DD
Fan Rotation	-	CORRECT
Motor RPM	-	DD
System SetPt	-	SPEED CONTROLLER
RL Voltage	-	122
RL Amperage	-	0.44

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Project: 10-30-23 CULVERS - TITUSVILLE, FL (FAN CERT)

System/Unit: FAN - Exhaust



Asset: EF2

AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XCR-B50	XCR-B50
Serial Num	-	22026717
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Frame	-	N/L
Horsepower	-	N/L
Motor Rpm	-	625
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.13
Service Factor	-	N/L

Test Data		
	Design	Actual
CFM	50	47
Fan RPM	-	DD
Fan Rotation	-	CORRECT
Motor RPM	-	DD
System SetPt	-	SPEED CONTROLLER
RL Voltage	-	122
RL Amperage	-	0.11

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Project: 10-30-23 CULVERS - TITUSVILLE, FL (FAN CERT)

System/Unit: FAN - Exhaust



Asset: EF-A3

AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XCR-B70	XCR-B70
Serial Num	-	22026721
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Frame	-	N/L
Horsepower	-	N/L
Motor Rpm	-	675
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.15
Service Factor	-	N/L

Test Data		
	Design	Actual
CFM	70	65
Fan RPM	-	DD
Fan Rotation	-	CORRECT
Motor RPM	-	DD
System SetPt	-	SPEED CONTROLLER
RL Voltage	-	122
RL Amperage	-	0.12

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Project: 10-30-23 CULVERS - TITUSVILLE, FL (FAN CERT)

System/Unit: FAN - Exhaust



Asset: EF-B3

AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XCR-B70	XCR-B70
Serial Num	-	22026720
Type	CENTRIFUGAL	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Frame	-	N/L
Horsepower	-	N/L
Motor Rpm	-	675
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.15
Service Factor	-	N/L

Test Data		
	Design	Actual
CFM	70	64
Fan RPM	-	DD
Fan Rotation	-	CORRECT
Motor RPM	-	DD
System SetPt	-	SPEED CONTROLLER
RL Voltage	-	122
RL Amperage	-	0.13

Completed By: Stephen Tassinaro on 10/30/2023

Notes:
COVER MISSING. MC TO INSTALL.

Written By: Stephen Tassinaro on 11/01/2023

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Project: 10-30-23 CULVERS - TITUSVILLE, FL (FAN CERT)

System/Unit: FAN - Exhaust



Asset: PRV2

AREA:HOOD 1

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XCUE-140-VG	XCUE-140-10-VG-1-26-G
Serial Num	-	22025565 23C
Type	UPBLAST	CENTRIFUGAL
Configuration	VERTICAL	UPBLAST

Motor Data		
	Design	Actual
Motor MFG	-	VARIGREEN
Frame	-	N/L
Horsepower	-	1
Motor Rpm	-	1750
Phase	1	1
Voltage (rated)	115	115/208-230
Amperage (rated)	-	11.5/7.0
Service Factor	-	N/L

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

Test Data		
	Design	Actual
CFM	1500	1487
Fan RPM	1705	1260
Fan Rotation	-	CORRECT
Motor RPM	-	1260
RL Voltage	-	122
Suction ESP	-	-1.08"
Discharge ESP	-	ATM
Total ESP	1.8"	1.08"

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National TAB

Project: 10-30-23 CULVERS - TITUSVILLE, FL (FAN CERT)

System/Unit: FAN - Exhaust



Asset: PRV3

AREA:HOOD 2

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XCUE-140-VG	XCUE-140-10-VG-1-26-G
Serial Num	-	2202566 23C
Type	UPBLAST	CENTRIFUGAL
Configuration	VERTICAL	UPBLAST

Test Data		
	Design	Actual
CFM	1500	1507
Fan RPM	1351	945
Fan Rotation	-	CORRECT
Motor RPM	-	945
RL Voltage	-	122
Suction ESP	-	-0.40"
Discharge ESP	-	ATM
Total ESP	1.0"	0.40"

Motor Data		
	Design	Actual
Motor MFG	-	VARIGREEN
Frame	-	N/L
Horsepower	-	1
Motor Rpm	-	1750
Phase	1	1
Voltage (rated)	115	115/208-230
Amperage (rated)	-	11.5/7.0
Service Factor	-	N/L

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

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National TAB

Project: 10-30-23 CULVERS - TITUSVILLE, FL (FAN CERT)

System/Unit: FAN - Exhaust



Asset: PRV4

AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XRED-095-D	XRED-095-D-8-1-17-X
Serial Num	-	22025985 23C
Type	CENTRIFUGAL -ROOF	CENTRIFUGAL
Configuration	VERTICAL	DOWNBLAST

Motor Data		
	Design	Actual
Motor MFG	-	MCMILLAN
Frame	-	N/L
Horsepower	-	1/8
Motor Rpm	-	1550
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	2.6
Service Factor	-	N/L

Test Data		
	Design	Actual
CFM	350	321
Fan RPM	1468	DD
Fan Rotation	-	CORRECT
Motor RPM	-	DD
System SetPt	-	SPEED CONTROLLER
RL Voltage	-	122
RL Amperage	-	1.98
Total ESP	0.6"	0.16"
Fan Inlet SP	-	-0.16"
Fan Discharge SP	-	ATM

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National TAB

Project: 10-30-23 CULVERS - TITUSVILLE, FL (FAN CERT)

System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XXEP-FB 6.92-S	XXEP-83.00-S
Job / Serial Num	-	22093911
Type	TYPE I	TYPE I CANOPY
Hood length	83"	83"
Hood Width	23"	23"

Test Data Exhaust		
	Design	Actual
Filter Type	XTRACTOR	XTRACTOR
Filter Size 1	16X16	16X16
Filter Qty 1	5	5
Filter AK factor size 1	1.53	1.53
Filter Total AK Area	7.65	7.65
Filter1 FPM	-	204
Filter2 FPM	-	193
Filter3 FPM	-	184
Filter4 FPM	-	196
Filter5 FPM	-	207
Filter Ave FPM(corr)	-	197
CFM	1500	1507

Cooking Equipment		
	Design	Actual
Item 1	-	FRYER
Item 2	-	FRYER

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National TAB

Project: 10-30-23 CULVERS - TITUSVILLE, FL (FAN CERT)

System/Unit: Kitchen Hood Type I



Asset: HD2

AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XGEP-64-S	XGEP-64.00-S
Job / Serial Num	-	22093929
Type	TYPE I	TYPE I CANOPY
Hood length	64"	64"
Hood Width	23"	23"

Test Data Exhaust		
	Design	Actual
Filter Type	GREASE GRABBER	GREASE GRABBER
Filter Size 1	16X16	16X16
Filter Qty 1	4	4
Filter AK factor size 1	1.53	1.53
Filter Total AK Area	6.12	6.12
Filter1 FPM	-	253
Filter2 FPM	-	225
Filter3 FPM	-	226
Filter4 FPM	-	267
Filter Ave FPM(corr)	-	243
CFM	1500	1487

Cooking Equipment		
	Design	Actual
Item 1	-	GRIDDLE
Item 2	-	GRIDDLE

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National TAB

Project: 10-30-23 CULVERS - TITUSVILLE, FL (FAN CERT)

System/Unit: Kitchen Hood Type II



Asset: HD3

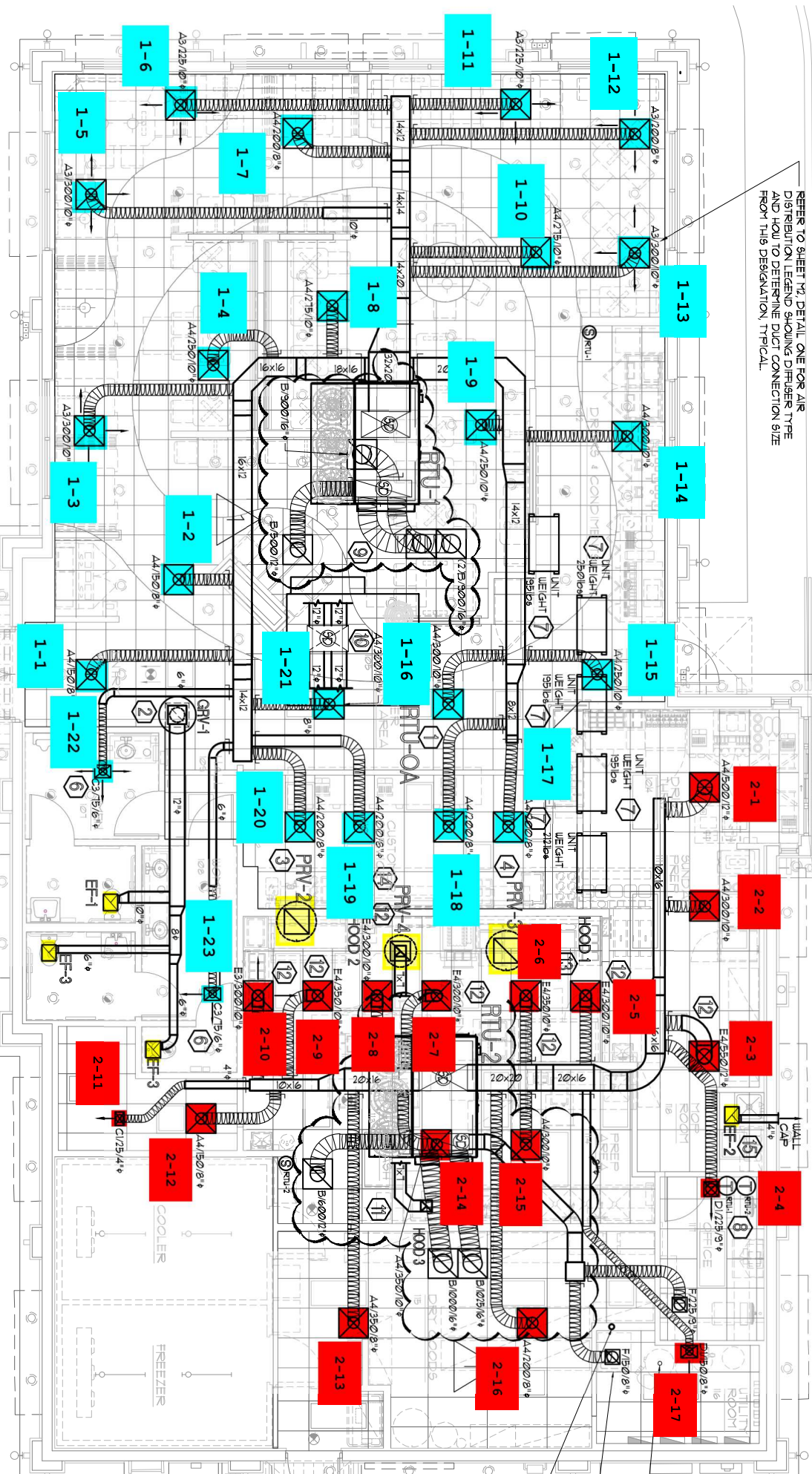
AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XD3-3.5S	XD3-42.00-S
Serial Num	-	22093907
Type	TYPE II	TYPE II CANOPY
Hood length	42"	42"
Hood Width	42"	42"

Test Data		
	Design	Actual
Exhaust CFM	350	321

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REFER TO SHEET M2, DETAIL ONE FOR AIR
 DISTRIBUTION LEGEND SHOWING DIFFUSER TYPE
 AND HOW TO DETERMINE DUCT CONNECTION SIZE
 FROM THIS DESIGNATION, TYPICAL.



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