

Report By:

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



**Report: Hood Certification
Function: Test, Adjust, & Balance
Date: 03/29/2024**

**PROJECT
03-25-24 Smashing Grapes Columbia, MD**

6200 Valencia Lane Suite

COLUMBA, MD 21044

Client

Accurex
400 Ross Ave
Schofield, WI 54476

National TAB

Project: 03-25-24 Smashing Grapes Columbia, MD

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Issue List

- KEF total airflow is low



03-25-24 Smashing Grapes Columbia, MD

Project Issue Information

Issue Name : KEF total airflow is low
Description : KEF (on the roof) total air flow is 35% design. Fan is currently running at FLA with a frequency of 48HZ. Was unable to confirm grease duct routing through out the 7 story building. Suction pressure was taken at the grease access door on the room and was measured at -0.0385" w.c. Recommend having Engineer on file review exhaust fan performance data.

Created By : National TAB **Assigned To :** National TAB - Dan Hertenstein

Status : Open
Priority : **Urgent** **Asset Tag :**
Originated Date : 03/29/2024 - David Annan - National TAB

Project Issue File Details



6E11AE31_91CC_449A_BA..
03/29/2024

CheckList List

- HOOD CERTIFICATION CHECKLIST 1
- HOOD CERTIFICATION CHECKLIST 2
- HOOD CERTIFICATION CHECKLIST 3



03-25-24 Smashing Grapes Columbia, MD

CheckList Information

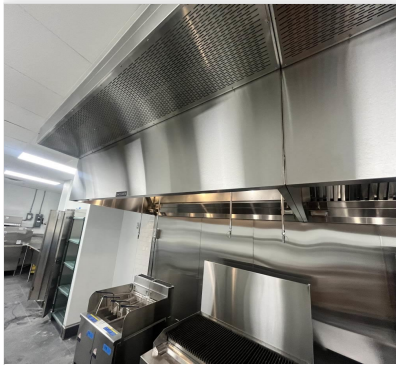
Name : HOOD CERTIFICATION CHECKLIST 1 **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 03/27/2024 - Brian Turnbough - National TAB
Completed Date : 03/29/2024 - David Annan - National TAB

CheckList Item Details

HD-1

Hood Photos

Comment:



09713E61_15C7_4EF0_9B..
03/29/2024

Exhaust Fan Photo

Comment:



198A327D_2758_466C_80..
03/29/2024

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, not all hood light bulbs were installed

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:

Side skirts were not spec'd

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:

Hood airflow is severely low even after maxing out fan to FLA.



03-25-24 Smashing Grapes Columbia, MD

CheckList Information

Name : HOOD CERTIFICATION CHECKLIST 2 **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 03/27/2024 - Brian Turnbough - National TAB
Completed Date : 03/29/2024 - David Annan - National TAB

CheckList Item Details

HD-1

Hood Photos

Comment:



5818A0FA_091A_4B59_A3..
03/29/2024

Exhaust Fan Photo

Comment:



86215E29_8DCC_4069_A2..
03/29/2024

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:

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:

Hood exhaust airflow is low. Fan is currently running at FLA.



03-25-24 Smashing Grapes Columbia, MD

CheckList Information

Name : HOOD CERTIFICATION CHECKLIST 3 **Status :** Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 03/27/2024 - Brian Turnbough - National TAB
Completed Date : 03/29/2024 - David Annan - National TAB

CheckList Item Details

HD-1

Hood Photos

Comment:



51B929C3_8EF2_407F_99..
03/28/2024

Exhaust Fan Photo

Comment:



C114C599_7953_4F64_95..
03/29/2024

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, it Some bulbs are not in.

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:

No

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:

Hood exhaust is low. Fan is currently running at FLA.



National TAB

Project: 03-25-24 Smashing Grapes Columbia, MD

System/Unit: FAN - Exhaust

Asset: KEF1

AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XUEF-22	XUEF-22
Serial Num	-	23170646
Type	DD	Utility
Configuration	VERTICAL	Vertical

Motor Data		
	Design	Actual
Motor MFG	-	Baldor
Frame	-	184T
Horsepower	5	5
Motor Rpm	-	1750
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	6.6
Service Factor	-	1.15

Test Data		
	Design	Actual
CFM	5500	1947
Fan RPM	1260	1400
Fan Rotation	-	CW
Motor RPM	-	1400
System SetPt	-	48 HZ
RL Voltage	-	406 "VFD"
RL Amperage	-	6.63 "VFD"
Total ESP	2.5	0.0385"
Fan Inlet SP	-	-0.0385"
Fan Discharge SP	-	ATM

Completed By: David Annan on 03/28/2024

Notes:

Fan max frequency is 48 HZ and is currently at FLA.

Written By: David Annan on 03/29/2024



National TAB

Project: 03-25-24 Smashing Grapes Columbia, MD

System/Unit: FAN - Supply

Asset: MUA1

AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XMSX-PH22-MF	XMSX-PH22-MF
Serial Num	-	23208072
Type	MUA	MUA
Configuration	VERTICAL	Vertical

Test Data		
	Design	Actual
CFM	4400	4542
RL Voltage	-	409 avg
RL Amperage	-	2.5 avg
Total ESP	-	0.18"
Fan Discharge SP	-	0.18"

Motor Data		
	Design	Actual
Motor MFG	-	Baldor
Frame	-	56H
Horsepower	2	2
Motor Rpm	-	1750
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	3
Service Factor	-	1.15

General		
	Design	Actual
Fan Rotation Correct	-	Yes

Completed By: David Annan on 03/28/2024



National TAB

Project: 03-25-24 Smashing Grapes Columbia, MD

System/Unit: Kitchen Hood Type I

Asset: HD1

AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XXEW-106-S	XXEW-106-S
Job / Serial Num	-	23170659
Type	TYPE 1 CANOPY	Type I
Hood length	106"	106"
Hood Width	60"	60"
Supply Plenum Type	-	APSP
Supply Plenum Width	18	18"
Supply Plenum Length	106"	106"

Test Data Supply		
	Design	Actual
Total AK Area	-	13.375
Num of Readings	-	6
Reading1 FPM	-	152
Reading2 FPM	-	188
Reading3 FPM	-	187
Reading4 FPM	-	256
Reading5 FPM	-	218
Reading6 FPM	-	154
Ave FPM(corr)	-	192
CFM	1692	1628

Test Data Exhaust		
	Design	Actual
Filter Type	X-TRACTOR	X-TRACTOR
Filter Size 1	16X20	16X20
Filter Size 2	20X20	20X20
Filter Qty 1	4	4
Filter Qty 2	2	2
Filter AK factor size 1	8.00	2.00
Filters AK factor size 2	6.00	3.00
Filter Total AK Area	14.00	14.00
Filter1 FPM	-	103
Filter2 FPM	-	97
Filter3 FPM	-	102
Filter4 FPM	-	94
Filter5 FPM	-	95
Filter6 FPM	-	96
Filter Ave FPM(corr)	-	
CFM	-	806

Cooking Equipment		
	Design	Actual
Item 1	-	Fryer
Item 2	-	Broiler Grill

Completed By: David Annan on 03/28/2024



National TAB

Project: 03-25-24 Smashing Grapes Columbia, MD

System/Unit: Kitchen Hood Type I

Asset: HD2

AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XXEW-106-S	XXEW-106-S
Job / Serial Num	-	23170659
Type	TYPE 1 CANOPY	Type I
Hood length	106"	106"
Hood Width	60"	60"
Supply Plenum Type	-	APSP
Supply Plenum Width	18"	18"
Supply Plenum Length	107"	107"

Test Data Supply		
	Design	Actual
Total AK Area	-	13.375
Num of Readings	-	
Reading1 FPM	-	148
Reading2 FPM	-	221
Reading3 FPM	-	138
Reading4 FPM	-	215
Reading5 FPM	-	278
Reading6 FPM	-	276
Ave FPM(corr)	-	
CFM	1708	1696

Test Data Exhaust		
	Design	Actual
Filter Type	XTRACTOR	X-TRACTOR
Filter Size 1	16X20	16X20
Filter Size 2	20X20	20X20
Filter Qty 1	4	4
Filter Qty 2	2	2
Filter AK factor size 1	8.00	2.00
Filters AK factor size 2	6.00	3.00
Filter Total AK Area	14.00	14.00
Filter1 FPM	-	85
Filter2 FPM	-	86
Filter3 FPM	-	83
Filter4 FPM	-	82
Filter5 FPM	-	89
Filter6 FPM	-	81
Filter Ave FPM(corr)	-	
CFM	2125	693

Cooking Equipment		
	Design	Actual
Item 1	-	Stove
Item 2	-	Broiler
Item 3	-	Pasta Cooker

Completed By: David Annan on 03/28/2024



National TAB

Project: 03-25-24 Smashing Grapes Columbia, MD

System/Unit: Kitchen Hood Type I

Asset: HD3

AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XXEW-66-S	XXEW-66-S
Job / Serial Num	-	23170661
Type	TYPE 1 CANOPY	Type I
Hood length	66"	66"
Hood Width	60"	60"
Supply Plenum Type	-	APSP
Supply Plenum Width	18"	18"
Supply Plenum Length	79"	79"

Test Data Supply		
	Design	Actual
Total AK Area	-	9.875
Num of Readings	-	5
Reading1 FPM	-	266
Reading2 FPM	-	237
Reading3 FPM	-	263
Reading4 FPM	-	207
Reading5 FPM	-	198
Ave FPM(corr)	-	234
CFM	1250	1218

Test Data Exhaust		
	Design	Actual
Filter Type	X-TRACTOR	X-TRACTOR
Filter Size 1	16X20	16X20
Filter Qty 1	4	4
Filter AK factor size 1	8.00	2.00
Filter Total AK Area	8.00	8.00
Filter1 FPM	-	94
Filter2 FPM	-	92
Filter3 FPM	-	89
Filter4 FPM	-	89
Filter Ave FPM(corr)	-	
CFM	1250	448

Cooking Equipment		
	Design	Actual
Item 1	-	Pizza Oven

Completed By: David Annan on 03/28/2024