

Report By:

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



Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 10/26/2023

PROJECT
09-25-23 EL SOMBRERO MEXICAN -
MARSHFIELD, MO

315 Commercial St

Marshfield, MO 65706

Client

Accurex
PO Box 410

Schofield, WI 54476

National TAB

Project: 09-25-23 EL SOMBRERO MEXICAN - MARSHFIELD, MO

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Issue List

- HIGH PRIORITY: Gas piping not installed to MAU
- HIGH PRIORITY: KEF1 and KEF2 low on flow



09-25-23 EL SOMBRERO MEXICAN - MARSHFIELD, MO

Project Issue Information

Issue Name : HIGH PRIORITY: Gas piping not installed to MAU
Description : MAU KSF1 has not had its gas piping installed which prevented tech from testing the heat. Recommend having MC complete gas piping to unit.
Created By : National TAB **Assigned To :** National TAB - Jacob Davidson
Status : Open
Originated Date : 10/26/2023 - Jacob Davidson - National TAB

Project Issue File Details



Unit
10/26/2023



09-25-23 EL SOMBRERO MEXICAN - MARSHFIELD, MO

Project Issue Information

Issue Name : HIGH PRIORITY: KEF1 and KEF2 low on flow
Description : KEF1 and KEF2 were low on flow. Units have been sped up to max and fan direction was verified. Units do not have hinge kits to be leaned back in order to inspect the ductwork from the inside.
Created By : National TAB **Assigned To :** National TAB - Jacob Davidson
Status : Open
Originated Date : 10/26/2023 - Jacob Davidson - National TAB

Project Issue File Details



Ductwork(1)
10/26/2023



Kef1(1)
10/26/2023



KEF2
10/26/2023

CheckList List

- FINAL TESTS
- TECH - SITE PICTURES
- UNIT INSPECTION



09-25-23 EL SOMBRERO MEXICAN - MARSHFIELD, MO

CheckList Information

Name : FINAL TESTS **Status :** Not Completed

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

Created Date : 09/26/2023 - Brian Turnbough - National TAB

CheckList Item Details

FINAL TESTS

HOOD CAPTURE TEST

List equipment turned on for testing

Comment:

ALL

List smoke candle type used

Comment:

COOKING OBSERVED

Smoke test capture - Perimeter of hood

Comment:

100%

Smoke test capture - Top of cooking surface

Comment:

100%

WITNESS

Date test was completed

09/26/2023

Comment:

TAB tech name / Firm

Comment:

JACOB DAVIDSON / NATIONAL TAB INTELLIGENCE

Site super name / Firm

Comment:

N/A

Owner representative name / Firm (if Applicable)

Comment:

ALEX / EL SOMBRERO

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

Comment:

0.0067" FRONT 0.0132" BACK DOOR



KSF
09/27/2023

KEF-1

Comment:



KEF1(1)
09/27/2023

KEF-2

Comment:



KEF2
09/27/2023

HOOD-1

Comment:



HD1
09/27/2023

HOOD-2

Comment:



HD2
09/27/2023



09-25-23 EL SOMBRERO MEXICAN - MARSHFIELD, MO

CheckList Information

Name : UNIT INSPECTION **Status :** Not Completed
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB
Created Date : 09/26/2023 - Brian Turnbough - National TAB

CheckList Item Details

UNIT DATA AND EVALUATION WHILE GATHERING UNIT DATA CHECK THE FOLLOWING:

EF's

Rotation is correct? Yes

Comment:

Belts are tight? N/A

Comment:

Grease cup installed on hood fan? Yes

Comment:

Hinge kit installed installed on hood fan? No

Comment:

Lean fan back. Is grease duct installation adequate and is duct ran all the way to the base of the fan? N/A

Comment:

CANNOT LEAN FANS BACK

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:

Unit free of noticeable noise and vibration?

Yes

Comment:

MUA

Rotation is correct?

Yes

Comment:

Gas piping is installed and valves are in on position?

No

Comment:

GAS PIPING NOT INSTALLED TO UNIT

Heater tested and is functional?

No

Comment:

Internal motorized damper is fully opening?

Yes

Comment:

Motor is operating below the FLA rating?

Yes

Comment:

Unit free of noticeable noise and vibration?

Yes

Comment:

HOODS

Kitchen equipment installed in proper places?

Yes

Comment:

Can kitchen equipment be turned on for final smoke test?

Yes

Comment:

DOCUMENTATION

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

Yes

Comment:

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Project: 09-25-23 EL SOMBRERO MEXICAN - MARSHFIELD, MO

System/Unit: FAN - Exhaust



Asset: KEF1

AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XRUD-160-VG	XRUD-160-10-VG-1-26-G
Serial Num	-	22367524
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	3000	2189
Fan RPM	1300	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	10VDC
RL Voltage	-	123V
RL Amperage	-	4.8A
Total ESP	0.75"	UTO
Fan Inlet SP	-	UTO
Fan Discharge SP	-	UTO

Motor Data		
	Design	Actual
Motor MFG	-	BROAD OCEAN
Frame	-	NL
Horsepower	1	1
Motor Rpm	1300	300-1750
Phase	1	1
Voltage (rated)	230	115/208-230/277
Amperage (rated)	-	11.5/7.0/5.8
Service Factor	-	1

Completed By: Jacob Davidson on 10/26/2023

Notes:

HINGE KIT IS NOT INSTALLED ON FAN TO GET PRESSURES SAFELY.
UNIT SET TO MAX SPEED.

Written By: Jacob Davidson on 10/26/2023

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Project: 09-25-23 EL SOMBRERO MEXICAN - MARSHFIELD, MO

System/Unit: FAN - Exhaust



Asset: KEF2

AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XRUD-160-VG	XRUD-160-10-VG-1-26-D
Serial Num	-	22367531
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	BROAD OCEAN
Frame	-	NL
Horsepower	1	1
Motor Rpm	1300	300-1750
Phase	1	1
Voltage (rated)	230	115/208-230/277
Amperage (rated)	-	11.5/7.0/5.8
Service Factor	-	1

Test Data		
	Design	Actual
CFM	3000	2177
Fan RPM	1300	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	10VDC
RL Voltage	-	120V
RL Amperage	-	4.6A
Total ESP	0.75"	UTO
Fan Inlet SP	-	UTO
Fan Discharge SP	-	UTO

Completed By: Jacob Davidson on 10/26/2023

Notes:

HINGE KIT IS NOT INSTALLED ON FAN TO GET PRESSURES SAFELY.
UNIT SET TO MAX SPEED.

Written By: Jacob Davidson on 10/26/2023

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Project: 09-25-23 EL SOMBRERO MEXICAN - MARSHFIELD, MO

System/Unit: FAN - Supply



Asset: KSF1

AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XDGX-P116-H12-MF	XDGX-P116-H12-MF
Serial Num	-	22372109
Type	MUA	MAU
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	182T
Horsepower	3	3
Motor Rpm	1725	1760
Phase	1	3
Voltage (rated)	230	208-230/460
Amperage (rated)	-	9-8.8/4.4
Service Factor	-	1

Gas Heat		
	Design	Actual
Heater Operates (y/n)	-	NO
Flame Status (pass/fail)	-	FAIL
Inlet Air Temp SetPt	-	50
Discharge Air Temp SetPt	-	70
Air Flow Switch SP Actual	-	UTO

Test Data		
	Design	Actual
CFM	4800	4032
SF RPM	1966	2005
Motor RPM	-	2005
SF System SetPt	-	68.38HZ
RL Voltage	-	250V VFD
RL Amperage	-	7.78A VFD
Total ESP	-	NA
Fan Discharge SP	-	NA

General		
	Design	Actual
Fan Rotation Correct	-	YES

Completed By: Jacob Davidson on 10/26/2023

Notes:

4 14X18 Filters

K factor 7

Measured 4638CFM from the roof

Written By: Jacob Davidson on 10/26/2023

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Project: 09-25-23 EL SOMBRERO MEXICAN - MARSHFIELD, MO



System/Unit: Kitchen Hood Type I

Asset: HD1

AREA:

Unit Data		
	Design	Actual
MFG	NA	ECON AIR
Model Num	NA	5424 EX-2
Job / Serial Num	-	4445908
Type	-	TYPE I CANOPY
Hood length	-	120"
Hood Width	-	54"
Supply Plenum Type	-	ACPSP
Supply Plenum Width	-	16"
Supply Plenum Length	-	120"

Test Data Exhaust		
	Design	Actual
Filter Type	-	BAFFLE
Filter Size 1	-	16X16
Filter Qty 1	-	7
Filter AK factor size 1	-	1.62
Filter Total AK Area	-	11.34
Filter1 FPM	-	178
Filter2 FPM	-	193
Filter3 FPM	-	216
Filter4 FPM	-	271
Filter5 FPM	-	203
Filter6 FPM	-	148
Filter7 FPM	-	146
Filter Ave FPM(corr)	-	193
CFM	3000	2189

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

Test Data Supply		
	Design	Actual
Total AK Area	-	13.33
Kv factor (Vel)	-	0.92
Num of Readings	-	8
Reading1 FPM	-	219
Reading2 FPM	-	99
Reading3 FPM	-	92
Reading4 FPM	-	169
Reading5 FPM	-	186
Reading6 FPM	-	209
Reading7 FPM	-	182
Reading8 FPM	-	174
Ave FPM(corr)	-	166
CFM	2400	2036

Completed By: Jacob Davidson on 10/26/2023

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Project: 09-25-23 EL SOMBRERO MEXICAN - MARSHFIELD, MO



System/Unit: Kitchen Hood Type I

Asset: HD2

AREA:

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE AIRE
Model Num	NA	5424 ND-2
Job / Serial Num	-	NL
Type	-	TYPE I CANOPY
Hood length	-	126"
Hood Width	-	54"
Supply Plenum Type	-	ACPSP
Supply Plenum Width	-	16"
Supply Plenum Length	-	126"

Test Data Supply		
	Design	Actual
Total AK Area	-	14
Kv factor (Vel)	-	0.92
Num of Readings	-	8
Reading1 FPM	-	264
Reading2 FPM	-	122
Reading3 FPM	-	71
Reading4 FPM	-	120
Reading5 FPM	-	132
Reading6 FPM	-	158
Reading7 FPM	-	194
Reading8 FPM	-	185
Ave FPM(corr)	-	155
CFM	2400	1996

Test Data Exhaust		
	Design	Actual
Filter Type	-	BAFFLE
Filter Size 1	-	16X16
Filter Qty 1	-	7
Filter AK factor size 1	-	1.62
Filter Total AK Area	-	11.34
Filter1 FPM	-	130
Filter2 FPM	-	126
Filter3 FPM	-	192
Filter4 FPM	-	211
Filter5 FPM	-	269
Filter6 FPM	-	222
Filter7 FPM	-	197
Filter Ave FPM(corr)	-	192
CFM	-	2177

Cooking Equipment		
	Design	Actual
Item 1	-	STOVE TOP
Item 2	-	OVEN

Completed By: Jacob Davidson on 10/26/2023