

Report By:

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



Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 07/07/2023

PROJECT
07-03-23 RIPPLE - CINCINNATI, OH

2000 MADISON RD

CINCINNATI, OH 45208

Client

NEED

National TAB

Project Summary

The summary below provides a quick understanding of our scope of work and general testing procedures for Ripple location Cincinnati OH.

Type II Hood

TAB was completed for the hood via traverse of the exhaust fan ductwork, and the MUA flow was balanced via discharge air velocity at the PSP and use of a area x K-factor calculation. During TAB excessive noise was found coming from the MUA unit when at design flow. The flow was reduced for the MUA until the noise levels were tolerable (approximately -200CFM from original design). To prevent negative building pressure the exhaust fan design CFM was also lowered. This deviation from design should not have a noticeable impact on space temperature around the hood.

Issue List

- EF-1 Missing Grease Trap
- MUA Gas piping
- MUA Noise problem



07-03-23 RIPPLE - CINCINNATI, OH

Project Issue Information

Issue Name : EF-1 Missing Grease Trap
Description : Ef-1 is missing the grease trap/drain
Created By : National TAB **Assigned To :** National TAB - Tyler Youells
Status : Open
Originated Date : 07/07/2023 - Tyler Youells - National TAB

Project Issue File Details



**Nogreasetrap
07/07/2023**



07-03-23 RIPPLE - CINCINNATI, OH

Project Issue Information

Issue Name : MUA Gas piping
Description : Gas piping to the MUA has not yet been completed. This unit will not be able to heat until gas line is installed. Recommend resolving before Fall/Winter seasons.
Created By : National TAB **Assigned To :** National TAB - Tyler Youells
Status : Open
Originated Date : 07/07/2023 - Tyler Youells - National TAB

Project Issue File Details



**MUAgasline
07/07/2023**



07-03-23 RIPPLE - CINCINNATI, OH

Project Issue Information

Issue Name : MUA Noise problem
Description : When the MUA was at design flow there was a lot of noise from the duct to PSP connection resulting from a system effect. The total MUA flow was reduced from 1000CFM to reduce noise levels. Exhaust flow was also reduced to maintain Exhaust-Supply CFM offset.
Created By : National TAB **Assigned To :** National TAB - Tyler Youells
Status : Open
Originated Date : 07/07/2023 - Tyler Youells - National TAB

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Project: 07-03-23 RIPPLE - CINCINNATI, OH

System/Unit: FAN - Exhaust



Asset: KEF1

AREA:HD-1

Unit Data		
	Design	Actual
MFG	ECONOAIRE	ECONOAIRE
Model Num	EASIF15DD	EASIF15DD
Serial Num	-	5713888
Type	INLINE	INLINE
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Frame	-	NA
Horsepower	1	1
Motor Rpm	-	1750
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	3.0
Service Factor	-	1.15

Test Data		
	Design	Actual
CFM	1440	1161
Fan RPM	1379	1313
Fan Rotation	-	CCW
Motor RPM	-	1313
System SetPt	-	45HZ
RL Voltage	-	154/154/154.1
RL Amperage	-	1.82/1.81/1.82
Total ESP	0.9"	0.77"
Fan Inlet SP	-	-0.63"
Fan Discharge SP	-	0.14"

Completed By: Tyler Youells on 07/07/2023

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Project: 07-03-23 RIPPLE - CINCINNATI, OH

System/Unit: FAN - Supply



Asset: KHMUA1

AREA:HD-1

Unit Data		
	Design	Actual
MFG	ECONOAIRE	ECONOAIRE
Model Num	E76	E76
Serial Num	-	5713888
Type	MUA	MUA
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Frame	-	NL
Horsepower	1	1
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	230	230
Amperage (rated)	-	6.5
Service Factor	-	1

Drive Data		
	Design	Actual

Gas Heat		
	Design	Actual
Heater Operates (y/n)	-	NO
Flame Status (pass/fail)	-	FAIL
Inlet Air Temp SetPt	55	55
Discharge Air Temp SetPt	60	60
Air Flow Switch SP Actual	-	0.221"

Test Data		
	Design	Actual
CFM	1000	794
SF RPM	1746	1080
Motor RPM	-	1080
RL Voltage	-	241.6
RL Amperage	-	1.82
Total ESP	-	0.17"
Fan Discharge SP	-	0.10"

General		
	Design	Actual
Fan Rotation Correct	-	YES

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Project: 07-03-23 RIPPLE - CINCINNATI, OH

System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:

Unit Data		
	Design	Actual
MFG	ECONOAIRE	ECONOAIRE
Model Num	4812 ESX-2-PSP-F	4812 ESX-2-PSP-F
Job / Serial Num	-	5713888
Type	TYPE II CANOPY	TYPE II CANOPY
Hood length	108	108
Hood Width	48	48
Supply Plenum Type	-	PSP
Supply Plenum Width	14	14"
Supply Plenum Length	108	108"

Test Data Exhaust		
	Design	Actual
Filter Type	CONDENSATE BAFFLE	CONDENSATE BAFFLE
Filter Size 1	-	16X16
Filter Qty 1	6	6
CFM	1440	1161

Cooking Equipment		
	Design	Actual
Item 1	-	OVEN
Item 2	-	OVEN
Item 3	-	HOTWELL
Item 4	-	HOT PLATES

Test Data Supply		
	Design	Actual
Total AK Area	10.5	10.5
Kv factor (Vel)	0.89"	0.89
Num of Readings	-	9
Reading1 FPM	-	96
Reading2 FPM	-	105
Reading3 FPM	-	84
Reading4 FPM	-	69
Reading5 FPM	-	96
Reading6 FPM	-	85
Reading7 FPM	-	78
Reading8 FPM	-	81
Reading9 FPM	-	78
Ave FPM(corr)	-	86
CFM	1000	794

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