

Report By:

National TAB
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SUITE 4210
CINCINNATI, OH 45246



Report: initial eval
Function: Test, Adjust, & Balance
Date: 07/26/2024

PROJECT
Coach House Tavern and Grille

100 Berkeley Dr

Hamilton, OH 45013

Client

Sean Leary

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Project: Coach House Tavern and Grille

Table Of Contents

Section	Page #
AHU/RTU	3
FAN - Exhaust	5
FAN - Supply	8
Kitchen Hood Type I	9
Kitchen Hood Type II	11



National TAB

Project: Coach House Tavern and Grille

System/Unit: AHU/RTU

Asset: HP1

AREA:

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	40RMQ
Model Num	NA	NA
Num OA Filters 1	-	
OA Filter Size 1	-	

Test Data		
	Design	Actual
OA CFM	900	
OA Damper Position	-	
OA Damper Type	-	MOTORIZED

General	
	Actual
Fan Rotation Correct	
Unit Filters Clean	



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Project: Coach House Tavern and Grille

System/Unit: AHU/RTU

Asset: HP2

AREA:

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	40FKA
Model Num	NA	NA
Num OA Filters 1	-	
OA Filter Size 1	-	

Test Data		
	Design	Actual
OA CFM	400	
OA Damper Position	-	
OA Damper Type	-	MOTORIZED

General	
	Actual
Fan Rotation Correct	
Unit Filters Clean	

National TAB

Project: Coach House Tavern and Grille

System/Unit: FAN - Exhaust

Asset: EF DISH3

AREA:DISH HOOD

Unit Data		
	Design	Actual
MFG	ACME	ACME
Model Num	PRN-135-G	PRN-135-G
Serial Num	-	
Type	DOWNBLAST	
Configuration	VERTICAL	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	1	
Voltage (rated)	120	
Amperage (rated)	-	
Service Factor	-	

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

Test Data		
	Design	Actual
CFM	800	
Fan RPM	-	
Fan Rotation	-	
Motor RPM	-	
RL Voltage	-	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.625"	



National TAB

Project: Coach House Tavern and Grille

System/Unit: FAN - Exhaust

Asset: EF LEFT2

AREA:HOOD LEFT

Unit Data		
	Design	Actual
MFG	ACME	ACME
Model Num	PNU-185-RG-J	PNU-185-RG-J
Serial Num	-	
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Horsepower	1.0	1.0
Motor Rpm	1760	1760
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	3.34
Service Factor	-	

Drive Data	
	Actual
Motor Sheave Size	VL40
Motor Bore Size	0.875"
Motor Sheave SetPt	MAX
Fan Sheave Size	AL64
Fan Sheave Bore	0.75"
Belt CL Distance	6"
Num of Belts	1
Belt Size	VL270

Test Data		
	Design	Actual
CFM	2875	2492
Fan RPM	-	
Fan Rotation	-	CCW
Motor RPM	-	1760
RL Voltage	-	205/205/206
RL Amperage	-	2.2/2.2/2.3
Suction ESP	-	
Discharge ESP	-	ATM
Total ESP	1.0	



National TAB

Project: Coach House Tavern and Grille

System/Unit: FAN - Exhaust

Asset: EF RIGHT1

AREA:HOOD RIGHT

Unit Data		
	Design	Actual
MFG	ACME	ACME
Model Num	PNU-185-RG-J	PNU-185-RG-J
Serial Num	-	
Type	UPBLAST	
Configuration	VERTICAL	

Motor Data		
	Design	Actual
Motor MFG	-	NEMA
Horsepower	1.0	1.0
Motor Rpm	1760	1760
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	3.2
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	VL40
Motor Bore Size	0.875"
Motor Sheave SetPt	1 TURN OPEN
Fan Sheave Size	AL64
Fan Sheave Bore	0.75"
Belt CL Distance	6"
Num of Belts	1
Belt Size	VL270

Test Data		
	Design	Actual
CFM	2875	2023
Fan RPM	-	
Fan Rotation	-	CWW
Motor RPM	-	
RL Voltage	-	205/205/206
RL Amperage	-	2.4/2.5/2.6
Suction ESP	-	
Discharge ESP	-	ATM
Total ESP	1.0	

National TAB

Project: Coach House Tavern and Grille

System/Unit: FAN - Supply

Asset: MUA1

AREA:

Unit Data		
	Design	Actual
MFG	MASTER AIR	MASTER AIR
Model Num	MAS-15-INLINE	MAS-15-INLINE
Serial Num	-	NA
Type	MUA	MUA
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
Motor MFG	-	RELIANCE ELECTRIC
Frame	-	NA
Horsepower	3.0	3.0
Motor Rpm	1745	1745
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	9.3
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	VP50
Motor Bore Size	1.125"
Fan Sheave Size	7.5"
Fan Sheave Bore	1"
Belt CL Distance	24.5"
Num of Belts	1
Belt Size	B65
Belt Alignment Verified	GOOD

Gas Heat		
	Design	Actual
Heater Operates (y/n)	-	
Flame Status (pass/fail)	-	
Inlet Air Temp SetPt	-	
Discharge Air Temp SetPt	-	
Air Flow Switch SP Actual	-	

Test Data		
	Design	Actual
CFM	4600	3702
SF RPM	-	1003
Motor RPM	-	1745
SF System SetPt	-	BELT DRIVEN
RL Voltage	-	205/205/206
RL Amperage	-	6.0/6.2/6.2
Total ESP	-	0.51"
Fan Discharge SP	-	0.51"

General	
	Actual
Fan Rotation Correct	CORRECT

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Project: Coach House Tavern and Grille

System/Unit: Kitchen Hood Type I

Asset: HD LEFT2

AREA:

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA
Job / Serial Num	-	NA
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	108"	108"
Hood Width	63"	63"
Supply Plenum Type	-	PSP
Supply Plenum Width	17"	17"
Supply Plenum Length	108"	108"

Test Data Exhaust		
	Design	Actual
Filter Type	BAFFLE	BAFFLE
Filter Size 1	20X20	20X20
Filter Qty 1	5	5
Filter AK factor size 1	2.68	2.68
Filter Total AK Area	13.4	13.4
Filter1 FPM	-	167
Filter2 FPM	-	196
Filter3 FPM	-	183
Filter4 FPM	-	181
Filter5 FPM	-	205
Filter6 FPM	-	
Filter7 FPM	-	
Filter8 FPM	-	
Filter9 FPM	-	
Filter10 FPM	-	
Filter11 FPM	-	
Filter12 FPM	-	
Filter Ave FPM(corr)	-	186
CFM	2875	2492

Cooking Equipment	
	Actual
Item 1	GRIDDLE
Item 2	CHAR
Item 3	FRYER
Item 4	
Item 5	

Test Data Supply		
	Design	Actual
Total AK Area	12.75	12.75
Kv factor (Vel)	0.88	0.88
Num of Readings	-	
Reading1 FPM	-	330
Reading2 FPM	-	82
Reading3 FPM	-	265
Reading4 FPM	-	194
Reading5 FPM	-	29
Reading6 FPM	-	72
Reading7 FPM	-	0
Reading8 FPM	-	213
Reading9 FPM	-	183
Reading10 FPM	-	164
Reading11 FPM	-	17
Reading12 FPM	-	115
Reading13 FPM	-	291
Ave FPM(corr)	-	165.7
CFM	-	

Notes:

MUA supply plenum read from left to right.

MUA reading are for the entire length of HD left and HD right.

First 3 MUA fpm readings may be affected by nearby diffuser.

Written By: Austin McFall on 07/26/2024



National TAB

Project: Coach House Tavern and Grille

System/Unit: Kitchen Hood Type I

Asset: HD RIGHT1

AREA:

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA
Job / Serial Num	-	NA
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	108"	108"
Hood Width	63"	63"
Supply Plenum Type	-	PSP
Supply Plenum Width	17"	17"
Supply Plenum Length	108"	108"

Test Data Supply		
	Design	Actual
Total AK Area	12.75	12.75
Kv factor (Vel)	0.88	0.88
Num of Readings	-	
Reading1 FPM	-	
Reading2 FPM	-	
Reading3 FPM	-	
Reading4 FPM	-	
Reading5 FPM	-	
Reading6 FPM	-	
Reading7 FPM	-	
Reading8 FPM	-	
Reading9 FPM	-	
Reading10 FPM	-	
Reading11 FPM	-	
Reading12 FPM	-	
Reading13 FPM	-	
Reading14 FPM	-	
Ave FPM(corr)	-	
CFM	-	

Test Data Exhaust		
	Design	Actual
Filter Type	BAFFLE	BAFFLE
Filter Size 1	20X20	20X20
Filter Qty 1	5	5
Filter AK factor size 1	2.68	2.68
Filters AK factor size 2	13.4	13.4
Filter Total AK Area	13.4	13.4
Filter1 FPM	-	135
Filter2 FPM	-	147
Filter3 FPM	-	164
Filter4 FPM	-	157
Filter5 FPM	-	156
Filter6 FPM	-	
Filter7 FPM	-	
Filter8 FPM	-	
Filter9 FPM	-	
Filter10 FPM	-	
Filter11 FPM	-	
Filter12 FPM	-	
Filter Ave FPM(corr)	-	151
CFM	2875	2023

Cooking Equipment	
	Actual
Item 1	OVEN
Item 2	5-BURNER
Item 3	
Item 4	
Item 5	

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Project: Coach House Tavern and Grille

System/Unit: Kitchen Hood Type II

Asset: HD DISH3

AREA:

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA
Serial Num	-	NA
Type	TYPE II CANOPY	TYPE II CANOPY
Hood length	42"	42"
Hood Width	42"	42"

Test Data		
	Design	Actual
Exhaust CFM	800	