

Report By:

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



**Report: TAB Report**  
**Function: Test, Adjust, & Balance**  
**Date: 08/13/2024**

**PROJECT**  
**Coach House Tavern and Grille**

100 Berkeley Dr

Hamilton, OH 45013

Client

Sean Leary

# National TAB

Project: Coach House Tavern and Grille

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# National TAB

Project: Coach House Tavern and Grille  
System/Unit: AHU/RTU



Asset: HP1

AREA:

Unit Data		
	Design	Actual
<b>MFG</b>	NA	CARRIER
<b>Serial Num</b>	-	40RMQ
<b>Model Num</b>	NA	NA

Test Data		
	Design	Actual
<b>OA CFM</b>	900	500
<b>OA Damper Position</b>	-	100%
<b>OA Damper Type</b>	-	MOTORIZED

General	
	Actual
<b>Fan Rotation Correct</b>	CORRECT
<b>Unit Filters Clean</b>	CLEAN

Completed By: Austin McFall on 08/07/2024

# National TAB

Project: Coach House Tavern and Grille  
System/Unit: AHU/RTU



Asset: HP3

AREA:

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	40FKA
Model Num	NA	NA

Test Data		
	Design	Actual
OA CFM	240	250
OA Damper Position	-	100%
OA Damper Type	-	MOTORIZED

General	
	Actual
Fan Rotation Correct	CORRECT
Unit Filters Clean	CLEAN

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# National TAB

Project: Coach House Tavern and Grille  
System/Unit: Split Sys Furnace



Asset: HP2

AREA:

Unit Data		
	Design	Actual
<b>MFG</b>	CARRIER	CARRIER
<b>Model Num</b>	NA	FEM4X6000BL
<b>Serial Num</b>	-	F182163580
<b>Configuration</b>	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	NA
<b>Frame</b>	-	NA
<b>Horsepower</b>	0.75	0.75
<b>Motor Rpm</b>	NA	NA
<b>Phase</b>	1	1
<b>Voltage</b>	115	115
<b>Amperage</b>	-	7.5

Test Data		
	Design	Actual
<b>SF CFM</b>	1995	1636
<b>Motor Speed SetPt</b>	-	HIGH SPEED
<b>RL Voltage</b>	-	115
<b>RL Amperage</b>	-	7.0
<b>RA CFM</b>	1595	1486
<b>OA CFM</b>	400	150

Performance Data		
	Design	Actual
<b>Suction ESP</b>	-	-0.21"
<b>Discharge ESP</b>	-	0.19"
<b>Total ESP</b>	-	0.40"

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# National TAB

Project: Coach House Tavern and Grille

## Split Sys Furnace



**Diffuser Supply (GRD)**

**HP2/**

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
HP2-SGRD1	DISH	4-WAY	14	600	445	445	74.2
HP2-SGRD2	COOLER	4-WAY	14	600	495	495	82.5
HP2-SGRD3	SERVING LINE	4-WAY	14	600	496	496	82.7
HP2-SGRD4	CLOSEST	GRILLE	8	195	200	200	102.6
Total				1995	1636	1636	82.01%

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# National TAB

Project: Coach House Tavern and Grille  
System/Unit: FAN - Exhaust



Asset: EF DISH3

AREA:DISH HOOD

Unit Data		
	Design	Actual
<b>MFG</b>	ACME	ACME
<b>Model Num</b>	PRN-135-G	PRN-135-G
<b>Serial Num</b>	-	NA
<b>Type</b>	DOWNBLAST	DOWNBLAST
<b>Configuration</b>	VERTICAL	VERTICAL

Test Data		
	Design	Actual
<b>CFM</b>	800	[1]

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	NA
<b>Frame</b>	-	NA
<b>Horsepower</b>	0.75	0.75
<b>Motor Rpm</b>	1725	1725
<b>Phase</b>	1	1
<b>Voltage (rated)</b>	120	120
<b>Amperage (rated)</b>	-	NA
<b>Service Factor</b>	-	NA

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# 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	-	NA
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

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

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

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

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# 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	-	NA
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

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

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

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# 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)	-	YES
Flame Status (pass/fail)	-	PASS
Discharge Air Temp SetPt	-	70

Test Data		
	Design	Actual
CFM	4600	3400
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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# National TAB

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 Supply		
	Design	Actual
Total AK Area	12.75	12.75
Kv factor (Vel)	0.88	0.88
Num of Readings	-	7
Reading1 FPM	-	330
Reading2 FPM	-	82
Reading3 FPM	-	265
Reading4 FPM	-	194
Reading5 FPM	-	29
Reading6 FPM	-	72
Reading7 FPM	-	0
Ave FPM(corr)	-	139
CFM	-	1560

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
Filter Ave FPM(corr)	-	186
CFM	2875	2492

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

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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	-	6
Reading1 FPM	-	213
Reading2 FPM	-	183
Reading3 FPM	-	164
Reading4 FPM	-	17
Reading5 FPM	-	115
Reading6 FPM	-	291
Ave FPM(corr)	-	164
CFM	-	1840

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
Filter Ave FPM(corr)	-	151
CFM	2875	2023

Cooking Equipment	
	Actual
Item 1	OVEN
Item 2	5-BURNER

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# National TAB

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	[1]

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Notes:

[1] NOT ABLE TO GET AN ACCURATE READING ON HOOD. LOOK FOR TRAVERSE LOCATION AND COULD NOT FIND AN LOCATION THAT WASNT NEAR AN ELBOW.

Written By: Austin McFall on 08/07/2024