

**Report By:**

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



**Report: Prelim  
Function: Test, Adjust, & Balance  
Date: 09/12/2024**

**PROJECT  
Wingstop (Lincoln, CA)**

900 Sterling Parkway

Lincoln, CA 95648

**Client**

**KMS Resource Group Inc.  
8502 E CHAPMAN AVE  
SUITE 274  
ORANGE, CA 92869**

# National TAB

Project: Wingstop (Lincoln, CA)

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## Issue List

- MUA INTERNAL DAMPER MANUALLY SET



**Wingstop (Lincoln, CA)**

**Project Issue Information**

**Issue Name :** MUA INTERNAL DAMPER MANUALLY SET  
**Description :** The MUA needed to have its internal damper manually set for testing. Recommend to properly connect control wire to control board for proper operation.  
**Created By :** National TAB                      **Assigned To :** National TAB - Zack Eismin  
**Status :** Open  
**Priority :** Low                                      **Asset Tag :**  
**Originated Date :** 09/12/2024 - Zack Eismin - National TAB

# National TAB

Project: Wingstop (Lincoln, CA)

## System/Unit: FAN - Exhaust



Asset: EF-1

AREA:KITCHEN

### Unit Data

	Design	Actual
<b>MFG</b>	NA	ECON-AIR
<b>Model Num</b>	NA	EADU180H
<b>Serial Num</b>	-	6676696
<b>Type</b>	CEILING	UPBLAST

### Test Data

	Design	Actual
<b>CFM</b>	2700	2756
<b>RL Voltage</b>	-	206/207/206
<b>RL Amperage</b>	-	4.8/4.8/4.9
<b>Total ESP</b>	1.20	0.93"

### Motor Data

	Design	Actual
<b>Motor MFG</b>	-	WEG
<b>Frame</b>	-	182T
<b>Horsepower</b>	-	2
<b>Motor Rpm</b>	-	1170
<b>Phase</b>	-	3
<b>Voltage (rated)</b>	-	230
<b>Amperage (rated)</b>	-	6.44
<b>Service Factor</b>	-	1.25

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# National TAB

Project: Wingstop (Lincoln, CA)

## System/Unit: FAN - Exhaust



Asset: EF-2

AREA:RR

Unit Data		
	Design	Actual
MFG	NA	PANASONIC
Model Num	NA	RG-C1315A
Serial Num	-	31204
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	150	143
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	0.125	0.11"

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	-	1
Voltage (rated)	-	120
Amperage (rated)	-	0.34
Service Factor	-	NL

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# National TAB

Project: Wingstop (Lincoln, CA)  
System/Unit: FAN - Supply



Asset: MAU-1

AREA:

Unit Data		
	Design	Actual
MFG	NA	ECON-AIR
Model Num	NA	EA-A1-15D
Serial Num	-	6676696
Type	-	MUA
Configuration	-	VERTICAL
Num Filters Size 1	-	3
Filter Size 1	-	18X23

Test Data		
	Design	Actual
CFM	2160	2176
SF RPM	2065	1401
RL Voltage	-	206/206/207
RL Amperage	-	4.5/4.4/4.5
Suction ESP	-	NA
Discharge ESP	-	NA
Total ESP	0.500	NA
Brake Horse Power	-	1.6

Motor Data		
	Design	Actual
Motor MFG	-	TECO
Frame	-	145T
Horsepower	-	2
Motor Rpm	-	1745
Phase	-	3
Voltage (rated)	-	230
Amperage (rated)	-	5.64
Service Factor	-	1.15

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

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# National TAB

Project: Wingstop (Lincoln, CA)  
System/Unit: Heat Pump



Asset: HP1

AREA:

Unit Data		
	Design	Actual
Unit MFG	NA	TRANE
Model Num	NA	WSC092H3R0B2F0001
Serial Num	-	242412401L
Type	-	RTU
Configuration	-	VERTICAL
Num Filters Size 1	-	4
Filter Size 1	-	20X25X2

Test Data		
	Design	Actual
SA CFM	3000	3020
SFAN RPM	-	731
Motor Speed Setpt	-	2 TURNS OPEN
RL Voltage	-	206/206/207
RL Amperage	-	3.32/3.33/3.35
RA CFM	2460	2487
OA CFM	540	533

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56
Horsepower	-	1
Motor Rpm	-	1725
Phase	-	3
Voltage	-	230
Amperage	-	3.2
Brake Horsepower	-	1

Performance Data		
	Design	Actual
Suction ESP	-	-0.21"
Discharge ESP	-	0.64"
Total ESP	-	0.85"

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Project:Wingstop (Lincoln, CA)

## Heat Pump



### Diffuser Supply (GRD)

HP1/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1	REAR	S1	12	470	392	449	95.5
1-2	1836-5	S1	12	470	357	457	97.2
1-3	KITCHEN	S2	12	470	501	461	98.1
1-4	KITCHEN	DUCT	8	130	137	139	106.9
1-5	KITCHEN	DUCT	8	130	137	139	106.9
1-6	KITCHEN	DUCT	8	130	137	139	106.9
1-7	KITCHEN	DUCT	8	130	137	139	106.9
1-8	KITCHEN	DUCT	8	130	137	139	106.9
1-9	KITCHEN	S2	12	470	459	477	101.5
1-10	CASHIER	S3	12	470	671	481	102.3
Total				3000	3065	3020	100.67%

### Diffuser Ret/Exh (GRD)

HP1/

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R1-1	CD	12	1230	1	1220	1220	1220	99.2
R1-2	CD	12	1230	1	1267	1267	1267	103.0
Total			2460		2487	2487	2487	101.1%

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# National TAB

Project: Wingstop (Lincoln, CA)  
System/Unit: Heat Pump



Asset: HP2

AREA:ORDERS/PICKUP

Unit Data		
	Design	Actual
Unit MFG	NA	TRANE
Model Num	NA	WSC048H3R0A2F
Serial Num	-	24301089L
Type	-	RTU
Configuration	-	VERTICAL
Num Filters Size 1	-	2
Filter Size 1	-	20X35X2

Test Data		
	Design	Actual
SA CFM	1600	1618
SFAN RPM	-	NL
Motor Speed Setpt	-	MEDIUM-HIGH
RL Voltage	-	206
RL Amperage	-	4.1
RA CFM	1200	1209
OA CFM	400	409

Motor Data		
	Design	Actual
Motor MFG	-	NIDEC
Frame	-	NL
Horsepower	-	1
Motor Rpm	-	NL
Phase	-	1
Voltage	-	230
Amperage	-	6.9
Brake Horsepower	-	1

Performance Data		
	Design	Actual
Suction ESP	-	-0.24"
Discharge ESP	-	0.40
Total ESP	-	0.64"

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# National TAB

Project:Wingstop (Lincoln, CA)

## Heat Pump



### Diffuser Supply (GRD)

#### HP2/ORDERS/PICKUP

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-1	RR	S4	6	80	95	77	96.3
2-2	DINING AREA	S1	10	380	273	352	92.6
2-3	DINING AREA	S1	10	380	442	391	102.9
2-4	DRINK AREA	S1	10	380	514	401	105.5
2-5	ORDER/PICKUP	S1	10	380	548	397	104.5
Total				1600	1872	1618	101.12%

### Diffuser Ret/Exh (GRD)

#### HP2/ORDERS/PICKUP

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R2-1	CD	12	1200	1	1209	1209	1209	100.8
Total			1200		1209	1209	1209	100.75%

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Project: Wingstop (Lincoln, CA)

## System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVAIRE	CAPTIVAIRE
Model Num	5430 ND-2-ACPSP-F	5430 ND-2-ACPSP-F
Job / Serial Num	-	6676696
Type	CANOPY	CANOPY
Hood length	78	78"
Hood Width	144	144"
Supply Plenum Type	-	PSP
Supply Plenum Width	16	16"
Supply Plenum Length	48	48"

Test Data Exhaust		
	Design	Actual
Filter Type	SOLO	SOLO
Filter Size 1	20X16	20X16
Filter Size 2	-	-
Filter Qty 1	9	9
Filter Qty 2	-	-
Filter AK factor size 1	2.08	2.08
Filters AK factor size 2	-	-
Filter Total AK Area	18.72	18.72
Filter1 FPM	-	144
Filter2 FPM	-	145
Filter3 FPM	-	143
Filter4 FPM	-	152
Filter5 FPM	-	154
Filter6 FPM	-	165
Filter7 FPM	-	152
Filter8 FPM	-	139
Filter9 FPM	-	133
Filter10 FPM	-	-
Filter11 FPM	-	-
Filter12 FPM	-	-
Filter Ave FPM(corr)	-	147
CFM	2700	2756

Cooking Equipment	
	Actual
Item 1	FRYERS
Item 2	
Item 3	
Item 4	
Item 5	

Test Data Supply		
	Design	Actual
Total AK Area	17.33	17.33
Kv factor (Vel)	0.91	0.91
Num of Readings	-	12
Reading1 FPM	-	179
Reading2 FPM	-	137
Reading3 FPM	-	156
Reading4 FPM	-	147
Reading5 FPM	-	142
Reading6 FPM	-	98
Reading7 FPM	-	83
Reading8 FPM	-	127
Reading9 FPM	-	144
Reading10 FPM	-	158
Reading11 FPM	-	140
Reading12 FPM	-	152
Reading13 FPM	-	-
Reading14 FPM	-	-
Ave FPM(corr)	-	138
CFM	2160	2176

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