

Report By:

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



**Report: CERTIFIED TAB REPORT**  
**Function: Test, Adjust, & Balance**  
**Date: 06/11/2024**

**PROJECT**  
**Wingstop (Redding, CA)**

1020 E. Cypress Ave

Redding, CA 96002

Client

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

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Project: Wingstop (Redding, CA)

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# National TAB

Project: Wingstop (Redding, CA)

System/Unit: AHU/RTU



Asset: RTU-1

AREA:HOOD-1

Unit Data		
	Design	Actual
MFG	NA	BRYANT
Serial Num	-	0714C55531
Model Num	NA	580JP05A072A2A0AAA
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	9"X9"
Num PreFilter 1	-	2
PreFilter Size 1	-	25"X15"X2"

Test Data		
	Design	Actual
SF CFM	1602	1583
SF RPM	-	976
RA CFM	1290	1266
OA CFM	310	317
RL Voltage	208	209.6/209.8/209.3
RL Amperage	-	1.96/1.81/1.69
OA Damper Position	-	3/4
Brake Horse Power	-	0.50

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56Y
Horsepower	-	1.5
Motor Rpm	-	1725
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	5.2
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.27"
Fan Suction SP	-	-0.53"
Fan Discharge SP	-	0.26"
Total ESP	-	0.53"
Fan Total SP	-	0.76"

Drive Data		
	Design	Actual
Motor Sheave Size	-	3"
Motor Bore Size	-	0.625"
Motor Sheave SetPt	-	3 TURNS OUT
Fan Sheave Size	-	AFD44
Fan Sheave Bore	-	AFD44
Belt CL Distance	-	15"
Num of Belts	-	1
Belt Size	-	AX38

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Notes:  
Manual OA Damper

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Project:Wingstop (Redding, CA)

## AHU/RTU



### Diffuser Supply (GRD)

#### RTU-1/HOOD-1

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1	106	CD	10	238	230	240	100.8
1-2	106	CD	10	238	253	228	95.8
1-3	106	CD	10	238	272	261	109.7
1-4	105	CD		238	162	218	91.6
1-5	HOOD-1	HOOD AC	8	130	115	123	94.6
1-6	HOOD-1	HOOD AC	8	130	116	133	102.3
1-7	HOOD-1	HOOD AC	8	130	118	131	100.8
1-8	HOOD-1	HOOD AC	8	130	119	123	94.6
1-9	HOOD-1	HOOD AC	8	130	112	126	96.9
Total				1602	1497	1583	98.81%

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## System/Unit: AHU/RTU



Asset: RTU-2

AREA:101

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	N1H9173210
Model Num	NA	XN048C000B2A1AAA1A1
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	10"X7"
Num PreFilter 1	-	3
PreFilter Size 1	-	15"X20"X1" / 14"X25"X1"

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	56HZ
Horsepower	-	1.5
Motor Rpm	-	1740
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	4.3
Service Factor	-	1.15

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VL44-7/8
Motor Bore Size	-	1VL44-7/8
Motor Sheave SetPt	-	5 TURNS OUT
Fan Sheave Size	-	5.5"
Fan Sheave Bore	-	0.875"
Belt CL Distance	-	12.5"
Num of Belts	-	1
Belt Size	-	A36

Test Data		
	Design	Actual
SF CFM	1598	1642
SF RPM	-	897
RA CFM	1290	1339
OA CFM	310	303
RL Voltage	203	208.7/208.9/208.5
RL Amperage	-	2.72/2.92/2.79
OA Damper Position	-	2/4 (SET MANUALLY)
Brake Horse Power	-	0.97

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.33"
Fan Suction SP	-	-0.67"
Fan Discharge SP	-	0.56"
Total ESP	-	0.89"
Fan Total SP	-	1.23"

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## AHU/RTU



### Diffuser Supply (GRD)

#### RTU-2/101

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-1	111	CD	6	80	32	72	90.0
2-2	105	CD		253	277	268	105.9
2-3	102	CD	10	253	293	274	108.3
2-4	104	CD		253	246	242	95.7
2-5	102	CD		253	261	238	94.1
2-6	101	CD		253	351	271	107.1
2-7	101	CD		253	382	277	109.5
Total				1598	1842	1642	102.75%

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Project: Wingstop (Redding, CA)

## System/Unit: FAN - Exhaust



Asset: EF-1

AREA:111

Unit Data		
	Design	Actual
MFG	NA	BROAN
Model Num	NA	HD80
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	80	77

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Project: Wingstop (Redding, CA)

## System/Unit: FAN - Exhaust



Asset: KEF-1

AREA:105

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	DU180HFA
Serial Num	-	6460865
Type	CRE UPBLAST	CRE UPBLAST

Test Data		
	Design	Actual
CFM	2700	2712
RL Voltage	-	210.1/210.2/210.4
RL Amperage	-	5.6
Total ESP	0.50	-1.13

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	DT80K
Horsepower	2	2
Motor Rpm	1164	1170
Phase	3	3
Voltage (rated)	208	230
Amperage (rated)	-	6.44
Service Factor	-	1.25

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Notes:

Amps read from VFD (Parameter 508)  
Fan Speed Set Pt. 60.7 HZ

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Project: Wingstop (Redding, CA)

## System/Unit: FAN - Supply



Asset: MAU-1

AREA:105

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	A1-15D
Serial Num	-	6460865
Type	-	MAU
Configuration	VERTICAL	VERTICAL
Num Filters Size 1	-	3
Filter Size 1	-	24.5"X19.5"

Test Data		
	Design	Actual
CFM	2160	2168
SF RPM	2053	1396
RL Voltage	-	209.2/209.7/209.2
RL Amperage	-	2.9
Brake Horse Power	-	1.343

Motor Data		
	Design	Actual
Motor MFG	-	TECO WESTINGHOUSE
Frame	-	145T
Horsepower	2.0	2
Motor Rpm	2053	1745
Phase	3	3
Voltage (rated)	208	230
Amperage (rated)	-	5.64
Service Factor	-	1

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Notes:

Amps read from VFD (Parameter 508)  
Fan Speed Set Pt. 40.8 HZ

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Project: Wingstop (Redding, CA)



## System/Unit: Kitchen Hood Type I

Asset: HOOD-1

AREA:105

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	5430 ND-2-ACPSP-F
Job / Serial Num	-	6460865
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	132"	132"
Hood Width	54"	54"
Supply Plenum Type	-	ACPSP
Supply Plenum Width	-	14"
Supply Plenum Length	-	144"

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	20"X16"	20"X16"
Filter Qty 1	8	8
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	16.64	16.64
Filter1 FPM	-	162
Filter2 FPM	-	147
Filter3 FPM	-	172
Filter4 FPM	-	160
Filter5 FPM	-	156
Filter6 FPM	-	171
Filter7 FPM	-	167
Filter8 FPM	-	169
Filter Ave FPM(corr)	-	163
CFM	2700	2712

Cooking Equipment		
	Design	Actual
Item 1	-	FRYER
Item 2	-	FRYER
Item 3	-	FRYER
Item 4	-	FRYER
Item 5	-	FRYER

Test Data Supply		
	Design	Actual
Total AK Area	-	14
Kv factor (Vel)	-	0.87
Num of Readings	-	12
Reading1 FPM	-	245
Reading2 FPM	-	200
Reading3 FPM	-	133
Reading4 FPM	-	171
Reading5 FPM	-	189
Reading6 FPM	-	167
Reading7 FPM	-	152
Reading8 FPM	-	177
Reading9 FPM	-	172
Reading10 FPM	-	188
Reading11 FPM	-	192
Reading12 FPM	-	160
Ave FPM(corr)	-	178
CFM	2160	2168

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