

Report By:

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



**Report: Wingstop (Oakland, CA)
Function: Test, Adjust, & Balance
Date: 02/23/2024**

**PROJECT
Wingstop (Oakland, CA)**

10700 MACARTHUR BLVD #2A

OAKLAND, CA 94605

Client

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

National TAB

Project: Wingstop (Oakland, CA)

Table Of Contents

Section	Page #
AHU/RTU	3
FAN - Supply	7
FAN - Exhaust	9
Kitchen Hood Type I	11

National TAB

Project: Wingstop (Oakland, CA)

System/Unit: AHU/RTU



Asset: RTU-1

AREA:102

Unit Data		
	Design	Actual
MFG	NA	JOHNSON CONTROLS
Serial Num	-	N2L3959691
Model Num	NA	ZYG06E2C1AA3B221A4
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	28X16
Num PreFilter 1	-	4
PreFilter Size 1	-	16X16X2

Test Data		
	Design	Actual
SF CFM	2000	1997
RA CFM	1685	1678
OA CFM	315	319
RL Voltage	-	209/210/211
RL Amperage	-	6.6/6.3/6.4
OA Damper Position	-	17%
Brake Horse Power	-	2.15

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR RELIANCE
Frame	-	56HZ
Horsepower	-	2.9
Motor Rpm	-	1745
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	8.9
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.91"
Fan Suction SP	-	1.15"
Fan Discharge SP	-	0.28"
Total ESP	-	1.19"
Fan Total SP	-	1.43"

Completed By: Zack Eismin on 02/22/2024

National TAB

Project: Wingstop (Oakland, CA)

AHU/RTU



Diffuser Supply (GRD)

RTU-1/102

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1	104			333	436	338	101.5
1-2	101			333	416	315	94.6
1-3	104			333	282	325	97.6
1-4	104			333	204	341	102.4
1-5	102			333	219	331	99.4
1-6	102			333	221	347	104.2
Total				1998	1778	1997	99.95%

National TAB

Project: Wingstop (Oakland, CA)

System/Unit: AHU/RTU



Asset: RTU-2

AREA:BOH

Unit Data		
	Design	Actual
MFG	NA	JOHNSON CONTROLS
Serial Num	-	N2C3509520
Model Num	NA	ZYG06E2C1AA3B221A4
Configuration	CERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	28X16
Num PreFilter 1	-	4
PreFilter Size 1	-	16X16X2

Test Data		
	Design	Actual
SF CFM	2000	2142
RA CFM	1685	1444
OA CFM	315	321
RL Voltage	-	211/210/209
RL Amperage	-	6.16/6.3/6.6
OA Damper Position	-	17%
Brake Horse Power	-	2.05

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR RELIANCE
Frame	-	56HZ
Horsepower	-	2.9
Motor Rpm	-	1745
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	8.9
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.89"
Fan Suction SP	-	-1.1"
Fan Discharge SP	-	0.25"
Total ESP	-	1.14"
Fan Total SP	-	1.35"

Completed By: Zack Eismin on 02/22/2024

Notes:
CONNECTED LOAD IS 2130 CFM

Written By: Michael Gabbert on 02/19/2024

National TAB

Project: Wingstop (Oakland, CA)

AHU/RTU



Diffuser Supply (GRD)

RTU-2/BOH

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-1	BOH	CD		325	386	327	100.6
2-2	111	CD		80	105	83	103.8
2-3	BOH	CD		325	282	315	96.9
2-4	105	CD	8	325	50	319	98.2
2-5	105	PSP	8	125	102	127	101.6
2-6	105	PSP	8	125	101	127	101.6
2-7	105	PSP	8	125	101	127	101.6
2-8	105	PSP	8	125	102	127	101.6
2-9	105	PSP	8	125	101	127	101.6
2-10	105	PSP	8	125	102	127	101.6
2-11	105	CD		325	331	336	103.4
Total				2130	1763	2142	100.56%

National TAB

Project: Wingstop (Oakland, CA)

System/Unit: FAN - Supply



Asset: MUA-1

AREA:ROOF

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	A1-A5D
Serial Num	-	5821150
Type	-	MUA
Configuration	VERTICAL	VERTICAL
Num Filters Size 1	-	2
Filter Size 1	-	18X14

Test Data		
	Design	Actual
CFM	2250	2264
SF RPM	2047	2128
RL Voltage	-	209/210/209
RL Amperage	-	4.7/4.8/4.8
Suction ESP	-	NA
Discharge ESP	-	NA
Total ESP	0.500	NA
Brake Horse Power	-	1.75

Motor Data		
	Design	Actual
Motor MFG	-	TECO
Frame	-	145T
Horsepower	2.00	2
Motor Rpm	2047	1740
Phase	3	3
Voltage (rated)	208	230
Amperage (rated)	-	5.48
Service Factor	-	1.15

Completed By: Zack Eismin on 02/22/2024

National TAB

Project: Wingstop (Oakland, CA)

FAN - Supply



Diffuser Supply (GRD)

MUA-1/ROOF

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	HOOD-1	PSP	12X28	750			-
SGRD2	HOOD-1	PSP	12X28	750			-
SGRD3	HOOD-1	PSP	12X28	750			-
Total				2250	0	0	0%

National TAB

Project: Wingstop (Oakland, CA)

System/Unit: FAN - Exhaust



Asset: EF-1

AREA:111

Unit Data		
	Design	Actual
MFG	NA	ZHONGSHAN
Model Num	NA	BPT13-14D
Serial Num	-	795074
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	80	78
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	-	0.11"

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	-	1
Voltage (rated)	-	120
Amperage (rated)	-	0.18
Service Factor	-	NL

Completed By: Zack Eismin on 02/22/2024

National TAB

Project: Wingstop (Oakland, CA)

System/Unit: FAN - Exhaust



Asset: KEF-1

AREA:ROOF

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	DU180HFA
Serial Num	-	5821150
Type	CRE UPBLAST	UPBLAST

Test Data		
	Design	Actual
CFM	2800	2808
RL Voltage	-	209/210/210
RL Amperage	-	7.1/7.2/7.1
Total ESP	1.50	1.47"

Motor Data		
	Design	Actual
Motor MFG	-	TECO
Frame	-	184T
Horsepower	2.000	2
Motor Rpm	1272	1165
Phase	3	3
Voltage (rated)	208	230
Amperage (rated)	-	7.51
Service Factor	-	1.15

Completed By: Zack Eismin on 02/22/2024

National TAB

Project: Wingstop (Oakland, 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	-	5281150
Type	TPE I CANOPY	TYPE I CANOPY
Hood length	150	150"
Hood Width	54	54"
Supply Plenum Type	-	PSP
Supply Plenum Width	14	14"
Supply Plenum Length	162	162"

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	20X16	20X16
Filter Qty 1	9	9
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	18.72	18.72
Filter1 FPM	-	134
Filter2 FPM	-	146
Filter3 FPM	-	137
Filter4 FPM	-	147
Filter5 FPM	-	165
Filter6 FPM	-	164
Filter7 FPM	-	156
Filter8 FPM	-	163
Filter9 FPM	-	139
Filter Ave FPM(corr)	-	150
CFM	2800	2808

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	15.75	15.75
Kv factor (Vel)	0.91	0.91
Num of Readings	-	12
Reading1 FPM	-	177
Reading2 FPM	-	167
Reading3 FPM	-	108
Reading4 FPM	-	177
Reading5 FPM	-	163
Reading6 FPM	-	139
Reading7 FPM	-	148
Reading8 FPM	-	170
Reading9 FPM	-	182
Reading10 FPM	-	135
Reading11 FPM	-	160
Reading12 FPM	-	170
Ave FPM(corr)	-	158
CFM	2250	2264

Completed By: Zack Eismin on 02/22/2024