

Report By:

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

NATIONAL

TAB

Comfort. Under control.

Report: Prelim

Function: Test, Adjust, & Balance

Date: 8/26/2022

PROJECT

08-22 ARBY'S #8227 - SULLIVAN, MO (REVIVE)

30 S NORTH. SERVICE RD WEST

SULLIVAN, MO 63080

Client

Flynn Restaurant Group
6200 Oak Tree Boulevard
Suite 250
Independence, OH 44131

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Project: 08-22 ARBY'S #8227 - SULLIVAN, MO (REVIVE)

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Project: 08-22 ARBY'S #8227 - SULLIVAN, MO (REVIVE)

System/Unit: AHU/RTU



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Asset: RTU1

AREA:DINING

Unit Data		
	Design	Actual
MFG	NA	AAON
Serial Num	-	200712-AMGK38211
Model Num	NA	RM-013-8-0-AB02-242
Type	-	RTU
Configuration	-	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	39x19
Num Final Filter 1	-	2
Final Filter Size 1	-	20x48x2

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR RELIANCE
Frame	-	56HZ
Horsepower	-	3
Motor Rpm	-	1725
Phase	-	3
Rated Voltage	-	208-230/460
Rated Amperage	-	8.8-8.4/4.2

Drive Data		
	Design	Actual
Motor Sheave Size	-	4.75"
Motor Bore Size	-	0.875"
Motor Sheave SetPt	-	3
Fan Sheave Size	-	[1]
Fan Sheave Bore	-	[1]
Belt CL Distance	-	24"
Num of Belts	-	1
Belt Size	-	BX60
Belt Alignment	-	GOOD

Test Data		
	Design	Actual
SF CFM	-	4348
SF RPM	-	[1]
RA CFM	-	3391
OA CFM	-	957
RL Voltage	-	213/213/213
RL Amperage	-	6.2/6.2/6.2
SF Rotation	-	CCW, CORRECT
RA Damper Position	-	3.5"
Min OA Damper Position	-	0.625"
Min OA Damper Type	-	ECONOMIZER

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.57"
Fan Suction SP	-	-0.88"
Fan Discharge SP	-	0.45"
Total ESP	-	1.02"
Fan Total SP	-	1.33"

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	YES
Condensate Drain Installed	-	YES

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Project: 08-22 ARBY'S #8227 - SULLIVAN, MO (REVIVE)

System/Unit: AHU/RTU



Comfort. Under control.

Asset: RTU2

AREA:KITCHEN

Unit Data		
	Design	Actual
MFG	NA	AA0N
Serial Num	-	200712-AMGJ38210
Model Num	NA	RM-010-8-0-AB02-242
Type	-	RTU
Configuration	-	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	39x19
Num Final Filter 1	-	2
Final Filter Size 1	-	20x48x2

Test Data		
	Design	Actual
SF CFM	-	2897
SF RPM	-	[2]
RA CFM	-	2202
OA CFM	-	695
RL Voltage	-	213/213/213
RL Amperage	-	5.0/5.0/5.0
SF Rotation	-	CCW, CORRECT
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	ECONOMIZER

Motor Data		
	Design	Actual
Motor MFG	-	AI SMITH
Frame	-	P145T
Horsepower	-	2
Motor Rpm	-	1745
Phase	-	3
Rated Voltage	-	200
Rated Amperage	-	6.0

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.29"
Fan Suction SP	-	-0.46"
Fan Discharge SP	-	0.30"
Total ESP	-	0.59"
Fan Total SP	-	0.76"

Drive Data		
	Design	Actual
Motor Sheave Size	-	VP44
Motor Bore Size	-	0.875"
Motor Sheave SetPt	-	0.5
Fan Sheave Size	-	[2]
Fan Sheave Bore	-	[2]
Belt CL Distance	-	24.5"
Num of Belts	-	1
Belt Size	-	BX60
Belt Alignment	-	GOOD

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	YES
Condensate Drain Installed	-	YES

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Project: 08-22 ARBY'S #8227 - SULLIVAN, MO (REVIVE)

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF1

AREA:HD1

Unit Data		
	Design	Actual
MFG	BELT	CAPTIVE AIRE
Model Num	NA	NCA14FA
Serial Num	-	712719
Type	-	UPBLAST
Configuration	-	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56
Horsepower	-	0.5
Motor Rpm	-	1725
Phase	-	1
Voltage (rated)	-	115/208-230
Amperage (rated)	-	8.8/4.2-4.4
Service Factor	-	1.25

Drive Data		
	Design	Actual
Motor Sheave Size	-	3.75"
Motor Bore Size	-	0.625"
Motor Sheave SetPt	-	5
Fan Sheave Size	-	5.25"
Fan Sheave Bore	-	0.75"
Belt CL Distance	-	5.75"
Num of Belts	-	1
Belt Size	-	AX23

Test Data		
	Design	Actual
CFM	-	537
Fan RPM	-	972
Fan Rotation	-	CCW, INCORRECT
Motor RPM	-	1746
RL Voltage	-	119
RL Amperage	-	8.6
Suction ESP	-	-0.17"
Discharge ESP	-	ATM
Total ESP	-	0.17"

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Project: 08-22 ARBY'S #8227 - SULLIVAN, MO (REVIVE)

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF2

AREA:HD2

Unit Data		
	Design	Actual
MFG	BELT	CAPTIVE AIRE
Model Num	NA	NCA10FA
Serial Num	-	712719
Type	-	UPBLAST
Configuration	-	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	48Y
Horsepower	-	0.33
Motor Rpm	-	1725
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	5.5
Service Factor	-	1.35

Drive Data		
	Design	Actual
Motor Sheave Size	-	3.125"
Motor Bore Size	-	0.5"
Motor Sheave SetPt	-	5
Fan Sheave Size	-	AK46
Fan Sheave Bore	-	0.75"
Belt CL Distance	-	5.5"
Num of Belts	-	1
Belt Size	-	AX20

Test Data		
	Design	Actual
CFM	-	979
Fan RPM	-	845
Fan Rotation	-	CCW, CORRECT
Motor RPM	-	1766
RL Voltage	-	123
RL Amperage	-	4.5
Suction ESP	-	-0.12"
Discharge ESP	-	ATM
Total ESP	-	0.12"

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Project: 08-22 ARBY'S #8227 - SULLIVAN, MO (REVIVE)

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF3

AREA:RESTROOM

Unit Data		
	Design	Actual
MFG	DD	COOK
Model Num	NA	100C10DM
Serial Num	-	299S993517-00/0000702
Type	-	DOWNBLAST
Configuration	-	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	FASCO
Frame	-	NL
Horsepower	-	0.04
Motor Rpm	-	1050
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	1.4
Service Factor	-	1.0

Test Data		
	Design	Actual
CFM	-	0
Fan RPM	-	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	SINGLE SPEED
RL Voltage	-	[2]
RL Amperage	-	[2]
Total ESP	-	[1]
Fan Inlet SP	-	[1]
Fan Discharge SP	-	ATM

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Notes: [1] Unit is not running, motor vibrates when turned on but wheel does not rotate. [2] No safe place to take volts and amps

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Project: 08-22 ARBY'S #8227 - SULLIVAN, MO (REVIVE)

System/Unit: FAN - Supply



Comfort. Under control.

Asset: MAU1

AREA:HD1

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE AIRE
Model Num	NA	A1-D.250-G10
Serial Num	-	712719
Type	-	MAU
Configuration	-	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	C56
Horsepower	-	0.5
Motor Rpm	-	1730
Phase	-	1
Voltage (rated)	-	115/208-230
Amperage (rated)	-	10.8/5.4
Service Factor	-	1.35

Drive Data		
	Design	Actual
Motor Sheave Size	-	4.375"
Motor Bore Size	-	0.625"
Fan Sheave Size	-	AK79
Fan Sheave Bore	-	0.75"
Belt CL Distance	-	14.25"
Num of Belts	-	1
Belt Size	-	AX46
Belt Alignment Verified	-	GOOD

Gas Heat		
	Design	Actual
Heater Operates (y/n)	-	NO
Flame Status (pass/fail)	-	FAIL
Inlet Air Temp SetPt	-	56
Discharge Air Temp SetPt	-	60
Air Flow Switch SP Actual	-	0.02"

Test Data		
	Design	Actual
CFM	-	231
SF RPM	-	1018
Motor RPM	-	1776
RL Voltage	-	124
RL Amperage	-	6.8
Total ESP	-	NA
Fan Discharge SP	-	NA

General		
	Design	Actual
Fan Rotation Correct	-	YES

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Project: 08-22 ARBY'S #8227 - SULLIVAN, MO (REVIVE)

System/Unit: Kitchen Hood Type I



Comfort. Under control.

Asset: HD1

AREA:FRYER

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE AIRE
Model Num	NA	WORN OFF
Job / Serial Num	-	WORN OFF
Type	-	TYPE I
Hood length	-	60"
Hood Width	-	31"
Supply Plenum Type	-	BACK SUPPLY
Supply Plenum Width	-	6"
Supply Plenum Length	-	60"

Test Data Exhaust		
	Design	Actual
Filter Type	-	BAFFLE
Filter Size 1	-	12X20
Filter Qty 1	-	3
Filter AK factor size 1	-	1.48
Filter Total AK Area	-	4.44
Filter1 FPM	-	127
Filter2 FPM	-	123
Filter3 FPM	-	114
Filter Ave FPM(corr)	-	121
CFM	-	537

Cooking Equipment		
	Design	Actual
Item 1	-	FRYER

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Test Data Supply		
	Design	Actual
CFM	-	231

Performance Data		
	Design	Actual
Exh-Supply Net CFM	-	306
Smoke Generation Type	-	SMOKE EMITTER
Cooking Equip Heat On	-	YES
Hood Capture %	-	95%
End Panels Installed (Y/N)	-	YES

General		
	Design	Actual
Third Party Witness	-	NA
Third Party Company	-	NA
Tech Witness	-	TRAVIS HALTER

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Project: 08-22 ARBY'S #8227 - SULLIVAN, MO (REVIVE)

System/Unit: Kitchen Hood Type I



Comfort. Under control.

Asset: HD2

AREA:OVEN

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE AIRE
Model Num	NA	WORN OFF
Job / Serial Num	-	WORN OFF
Type	-	TYPE II
Hood length	-	48"
Hood Width	-	48"

Test Data Supply		
	Design	Actual

Performance Data		
	Design	Actual

General		
	Design	Actual

Test Data Exhaust		
	Design	Actual
CFM	-	979

Cooking Equipment		
	Design	Actual
Item 1	-	OVEN

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Notes: