

File: PRGM20160120
1100 NE Douglas St

Report By:

National TAB
1329 E Kemper Rd, Ste 4210
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Report: Test and Balance
Date: 6/9/2016

PROJECT
MASTER WOK EXPRESS - LEES SUMMIT

1100 NE Douglas
LEES SUMMIT, MO 64086

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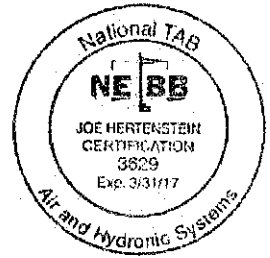
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Project Summary

National TAB performed a hood startup and balance at the Master Wok Restaurant located in Lee's Summit on June 8th, 2016. The final CFM/LFT rates, were balanced to 225 cfm/lft on the Island Hood, and 250 cfm/lft on the wok hood. All hood system static and performance data is documented within this report.

Building Pressure: + 0.0001"

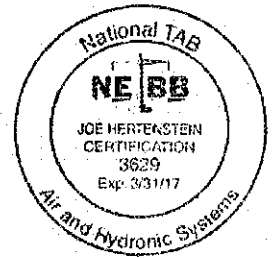
Hood Capture: 100%



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Project: MASTER WOK EXPRESS - LEES SUMMIT

System/Unit: Kitchen Hood Type I



Asset: HD1

AREA: WOK HOOD

Unit Data		
	Design	Actual
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	5430 ND-2	5430 ND-2
Job / Serial Num	-	2444994
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	179	179
Hood Width	54	54

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	20X16	20" X 16"
Filter Qty 1	11	11
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	22.88	22.88
Filter1 FPM	-	155
Filter2 FPM	-	158
Filter3 FPM	-	165
Filter4 FPM	-	170
Filter5 FPM	-	168
Filter6 FPM	-	162
Filter7 FPM	-	164
Filter8 FPM	-	170
Filter9 FPM	-	165
Filter10 FPM	-	161
Filter11 FPM	-	157
Filter High FPM(corr)	-	170
Filter Low FPM (corr)	-	155
Filter Ave FPM(corr)	-	163
CFM	4125	3729

Cooking Equipment		
	Design	Actual
Item 1	-	-
Item 2	-	-

Performance Data		
	Design	Actual
Smoke Generation Type	-	45 SEC SMOKE
Hood Capture %	-	100% CAPTURE

General		
	Design	Actual
Third Party Witness	-	DAWN HALL
Third Party Company	-	INTERIORS W INTEGRITY INC.
Tech Witness	-	BR
Tech Company	-	NTAB KC

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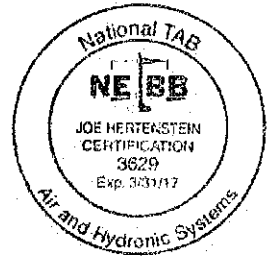
Notes:



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Project: MASTER WOK EXPRESS - LEES SUMMIT

System/Unit: Kitchen Hood Type I



Asset: HD2

AREA: FRYER/GRILL ISLAND HOOD

Unit Data		
	Design	Actual
MFG	VENT MASTER	VENT MASTER
Model Num	NA	NA
Job / Serial Num	-	NA
Type	-	ISLAND
Hood length	84	84"
Hood Width	48	48"

Test Data Exhaust		
	Design	Actual
Filter Type	BAFFLE	BAFFLE
Filter Size 1	20X16	20" X 16"
Filter Size 2	-	-
Filter Qty 1	8	8
Filter Qty 2	-	-
Filter AK factor size 1	2.08	2.08
Filters AK factor size 2	-	-
Filter Total AK Area	16.64	16.64
Filter1 FPM	-	72
Filter2 FPM	-	82
Filter3 FPM	-	70
Filter4 FPM	-	79
Filter5 FPM	-	73
Filter6 FPM	-	89
Filter7 FPM	-	210
Filter8 FPM	-	85
Filter9 FPM	-	-
Filter10 FPM	-	-
Filter11 FPM	-	-
Filter12 FPM	-	-
Filter High FPM(corr)	-	210
Filter Low FPM (corr)	-	70
Filter Ave FPM(corr)	-	95
CFM	2000	1581

Cooking Equipment		
	Design	Actual
Item 1	-	-
Item 2	-	-

Performance Data		
	Design	Actual
Smoke Generation Type	-	45 SEC SMOKE
Hood Capture %	-	100 % CAPTURE

General		
	Design	Actual
Third Party Witness	-	DAWN HALL
Third Party Company	-	INTERIORS W INTEGRITY INC.
Tech Witness	-	BR
Tech Company	-	NTAB KC

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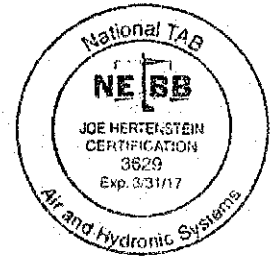
Notes: Filter 7: Aluminim baffle filter, velocity is high on this filter due to missing baffles which reduces the pressure loss across this baffle.



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Project: MASTER WOK EXPRESS - LEES SUMMIT

System/Unit: FAN - Exhaust



Asset: EF1

AREA: WOK HOOD

Unit Data		
	Design	Actual
MFG	CAPTIVE-AIRE	CAPTIVE-AIRE
Model Num	NCA24HPFA	NCA24HPFA
Serial Num	-	2444994
Type	CENTRIFUGAL	CENTRIFUGAL
Configuration	UPBLAST	UPBLAST

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56HZ
Horsepower	2	2
Motor Rpm	-	1740
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	5.9
Service Factor	-	1.15

Drive Data		
	Design	Actual
Motor Sheave Size	-	2VL4.0
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	3.8
Fan Sheave Size	-	6 3/4"
Fan Sheave Bore	-	1"
Belt CL Distance	-	7 1/2"
Num of Belts	-	2
Belt Size	-	BX 29

Test Data		
	Design	Actual
CFM	4125	3729
Fan RPM	952	1075
Fan Rotation	-	CCW
Motor RPM	-	1771
RL Voltage	-	212/211/211
RL Amperage	-	5.6/5.8/5.6
Suction ESP	-	0.36"
Discharge ESP	-	-
Total ESP	1.30"	-
Brake Horse Power	-	-

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Notes:



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Project: MASTER WOK EXPRESS - LEES SUMMIT

System/Unit: FAN - Exhaust



Asset: EF2

AREA: FRYER/GRILL ISLAND HOOD

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA
Serial Num	-	NA
Type	-	CENTRIFUGAL
Configuration	-	UPBLAST

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	B56
Horsepower	-	1
Motor Rpm	-	1720
Phase	-	3
Voltage (rated)	-	208
Amperage (rated)	-	3.3
Service Factor	-	1.15

Drive Data		
	Design	Actual
Motor Sheave Size	-	VL40
Motor Bore Size	-	5/8
Motor Sheave SetPt	-	3.8
Fan Sheave Size	-	AK46
Fan Sheave Bore	-	3/4
Belt CL Distance	-	6"
Num of Belts	-	1
Belt Size	-	A21

Test Data		
	Design	Actual
CFM	2000	1581
Fan RPM	-	1506
Fan Rotation	-	CCW
Motor RPM	-	1780
RL Voltage	-	212/212/211
RL Amperage	-	3.1/3.2/3.2
Suction ESP	-	-0.20"
Discharge ESP	-	-
Total ESP	-	-
Brake Horse Power	-	-

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Notes: