

Report By:

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



**Report: BRU TAB REPORT
Function: Test, Adjust, & Balance
Date: 08/13/2024**

**PROJECT
Bru (Fort Wayne, IN)**

118 West Columbia St

Fort Wayne, IN 46802

Client

**CUNNINGHAM RESTAURANT GROUP (CRG)
530 Fulton Suite 100
INDIANAPOLIS, IN 46202**

National TAB

Project: Bru (Fort Wayne, IN)

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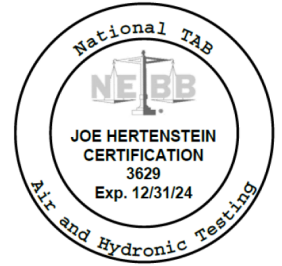
This facility was taken over by CRG group to convert it to a Bru Restaurant. It originally was a restaurant. The facility already consisted of type 1 commercial hoods, dishwasher hood, and associated fans. The AHU was not modified & remain as is. The AHU units are located within the space & pulls outside air into the via an intake louver. The focus of the TAB work was to balance out the hood systems and associated exhaust & make up air fans, Set total airflow of kitchen AHU unit, and to measure the outside air is provided to the space via AHU & MUA systems.

The resultant hood smoke test found that the hood performance was acceptable. The building pressure for restaurant was slightly negative in pressure to close to neutral. IMC Commentary recommends maintaining a building pressure of $-0.02''\text{wc}$ to $+0.02''\text{wc}$ for the building which this facility pressures fell within these guidelines.

National TAB

Project: Bru (Fort Wayne, IN)

System/Unit: FAN - Exhaust



Asset: EF1

AREA:

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE AIRE
Model Num	NA	DU180HFA
Serial Num	-	3642870
Type	-	UPBLAST
Configuration	-	HORIZONTAL

Test Data		
	Design	Actual
CFM	-	2639
Fan Rotation	-	CCW
RL Voltage	-	
RL Amperage	-	5.4
Suction ESP	-	NA
Discharge ESP	-	ATM
Total ESP	-	NA

Motor Data		
	Design	Actual
Horsepower	-	1.5
Phase	-	3
Voltage (rated)	-	208
Amperage (rated)	-	6.6

Unit Data - PHOTO LOG



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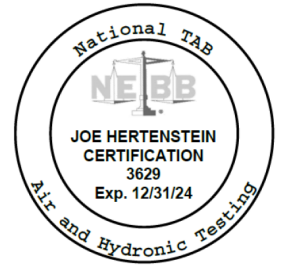
Completed By: Cody Collett on 08/13/2024

Notes:
57.7HZ SETPOINT.

Written By: Cody Collett on 08/13/2024

National TAB

Project: Bru (Fort Wayne, IN)
System/Unit: FAN - Exhaust



Asset: EF2

AREA:

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE AIRE
Model Num	NA	DU180HFA
Serial Num	-	3642870
Type	-	UPBLAST
Configuration	-	HORIZONTAL

Test Data		
	Design	Actual
CFM	-	2974
Fan Rotation	-	Correct
RL Voltage	-	
RL Amperage	-	7.2
Suction ESP	-	NA
Discharge ESP	-	ATM
Total ESP	-	NA

Motor Data		
	Design	Actual
Horsepower	-	3
Phase	-	3
Voltage (rated)	-	208
Amperage (rated)	-	9.5

Unit Data - PHOTO LOG



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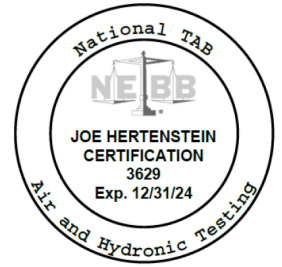
Completed By: Cody Collett on 08/13/2024

Notes:
SETPOINT 41HZ

Written By: Cody Collett on 08/13/2024

National TAB

Project: Bru (Fort Wayne, IN)
System/Unit: FAN - Exhaust



Asset: EF3

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVE AIRE	CAPTIVE AIRE
Model Num	SIF13DD-SS	SIF13DD-SS
Serial Num	-	6829140
Type	INLINE	INLINE
Configuration	CENTRIFUGAL	CENTRIFUGAL

Test Data		
	Design	Actual
CFM	900	818
Fan Rotation	-	Correct
System SetPt	-	52%

Motor Data		
	Design	Actual
Motor MFG	-	TEAO-ECM
Horsepower	1.0	1.0
Motor Rpm	1800	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	11.6
Service Factor	-	1.0

Unit Data - PHOTO LOG



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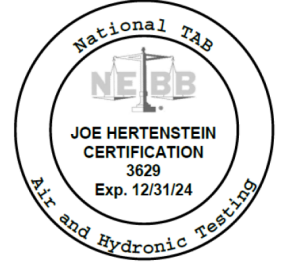
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Completed By: Cody Collett on 08/13/2024



National TAB

Project: Bru (Fort Wayne, IN)
System/Unit: FAN - Supply



Asset: MUA1

AREA:

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE AIRE
Model Num	NA	A2-D.500-20D
Serial Num	-	3642870
Type	-	MUA
Configuration	-	VERTICAL

Test Data		
	Design	Actual
CFM	-	4513
SF System SetPt	-	58.7hz
RL Amperage	-	11.2
Total ESP	-	NR
Fan Discharge SP	-	NR

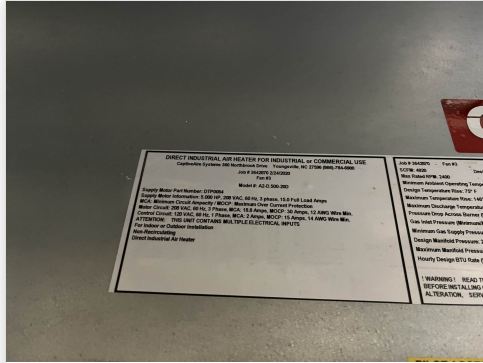
Motor Data		
	Design	Actual
Horsepower	-	5
Phase	-	3
Voltage (rated)	-	208
Amperage (rated)	-	15

General	
	Actual
Fan Rotation Correct	YES

Unit Data - PHOTO LOG



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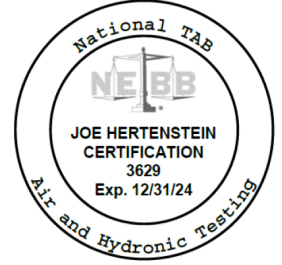
Completed By: Cody Collett on 08/13/2024



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Project: Bru (Fort Wayne, IN)

System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	5424ND-2
Job / Serial Num	-	3642870
Type	-	TYPE 1
Hood length	-	145"
Hood Width	-	54"
Supply Plenum Type	-	MUA PSP
Supply Plenum Width	-	14"
Supply Plenum Length	-	157"

Test Data Exhaust		
	Design	Actual
Filter Type	-	CAPTIVEAIRE SOLO
Filter Size 1	-	16"X20"
Filter Qty 1	-	9
Filter AK factor size 1	-	2.08
Filter Total AK Area	-	18.72
Filter1 FPM	-	125
Filter2 FPM	-	130
Filter3 FPM	-	135
Filter4 FPM	-	167
Filter5 FPM	-	149
Filter6 FPM	-	163
Filter7 FPM	-	134
Filter8 FPM	-	133
Filter9 FPM	-	141
Filter Ave FPM(corr)	-	141
CFM	-	2639

Cooking Equipment	
	Actual
Item 1	FRIDGE
Item 2	KETTLE
Item 3	OVEN
Item 4	GAS STOVE
Item 5	FRYER

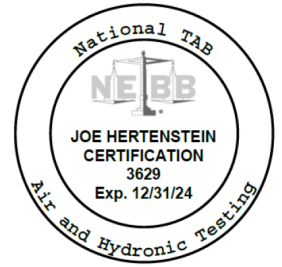
Test Data Supply		
	Design	Actual
Total AK Area	-	15.263
Kv factor (Vel)	-	.89
Num of Readings	-	12
Reading1 FPM	-	179
Reading2 FPM	-	144
Reading3 FPM	-	130
Reading4 FPM	-	86
Reading5 FPM	-	124
Reading6 FPM	-	101
Reading7 FPM	-	93
Reading8 FPM	-	113
Reading9 FPM	-	75
Reading10 FPM	-	78
Reading11 FPM	-	117
Reading12 FPM	-	175
Ave FPM(corr)	-	117
CFM	-	1589



National TAB

Project: Bru (Fort Wayne, IN)

System/Unit: Kitchen Hood Type I



Asset: HD2

AREA:

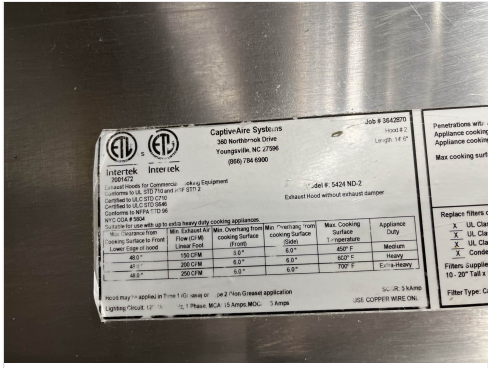
Unit Data		
	Design	Actual
MFG	NA	CAPTIVE AIRE
Model Num	NA	5424ND-2
Job / Serial Num	-	3642870
Type	-	TYPE 1
Hood length	-	175"
Hood Width	-	54"
Supply Plenum Type	-	MUA PSP
Supply Plenum Width	-	16"
Supply Plenum Length	-	187"

Test Data Exhaust		
	Design	Actual
Filter Type	-	CAPTIVEAIRE SOLO
Filter Size 1	-	16"X20"
Filter Qty 1	-	10
Filters AK factor size 2	-	2.08
Filter Total AK Area	-	20.8
Filter1 FPM	-	133
Filter2 FPM	-	149
Filter3 FPM	-	149
Filter4 FPM	-	130
Filter5 FPM	-	148
Filter6 FPM	-	137
Filter7 FPM	-	153
Filter8 FPM	-	148
Filter9 FPM	-	148
Filter10 FPM	-	143
Filter Ave FPM(corr)	-	143
CFM	-	2974

Cooking Equipment	
	Actual
Item 1	GRIDDLE
Item 2	GRIDDLE
Item 3	FRYER
Item 4	FRYER
Item 5	FRYER

Test Data Supply		
	Design	Actual
Total AK Area	-	20.77
Kv factor (Vel)	-	.92
Num of Readings	-	12
Reading1 FPM	-	231
Reading2 FPM	-	23
Reading3 FPM	-	220
Reading4 FPM	-	149
Reading5 FPM	-	99
Reading6 FPM	-	110
Reading7 FPM	-	93
Reading8 FPM	-	75
Reading9 FPM	-	67
Reading10 FPM	-	140
Reading11 FPM	-	162
Reading12 FPM	-	261
Ave FPM(corr)	-	153
CFM	-	2924

Unit Data - PHOTO LOG



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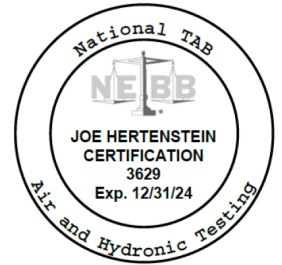
Completed By: Cody Collett on 08/13/2024



National TAB

Project: Bru (Fort Wayne, IN)

System/Unit: Kitchen Hood Type I



Asset: HD3

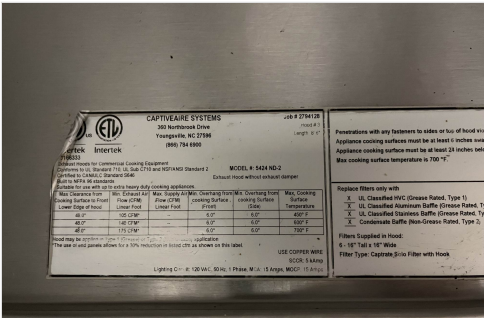
AREA:

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	5424 ND-2
Job / Serial Num	-	2794128
Type	-	DISH TYPE2
Hood length	-	8'6"

Test Data Exhaust		
	Design	Actual
Filter Type	-	BAFFLE
Filter Size 1	-	16"X16"
Filter Qty 1	-	6
Filter AK factor size 1	-	1.62
Filter Total AK Area	-	8.1
Filter1 FPM	-	93
Filter2 FPM	-	110
Filter3 FPM	-	0
Filter4 FPM	-	108
Filter5 FPM	-	102
Filter6 FPM	-	94
Filter Ave FPM(corr)	-	101
CFM	-	818

Cooking Equipment	
	Actual
Item 1	DISHWASHER

Unit Data - PHOTO LOG



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Completed By: Cody Collett on 08/13/2024

Notes:

All filters could not properly fit in the hood; cardboard was used to cover/seal the open area for testing.

Written By: Cody Collett on 08/13/2024

Issue List

- Hood 1 MUA psp clogged
- Hood 2 MUA PSP clogged.



Bru (Fort Wayne, IN)

Project Issue Information

Issue Name :	Hood 1 MUA psp clogged		
Description :	MUA PSP is clogged in areas and recommend cleaning to reduce noise and obtain a more laminar flow across entire plenum		
Created By :	National TAB	Assigned To :	National TAB - Joe Hertenstein
Status :	Open		
Priority :	High	Asset Tag :	HD1
Originated Date :	08/13/2024 - Cody Collett - National TAB		



Bru (Fort Wayne, IN)

Project Issue Information

Issue Name :	Hood 2 MUA PSP clogged.		
Description :	MUA PSP is clogged in areas and recommend cleaning to reduce noise and obtain a more laminar flow across entire plenum		
Created By :	National TAB	Assigned To :	National TAB - Joe Hertenstein
Status :	Open		
Priority :	High	Asset Tag :	HD2
Originated Date :	08/13/2024 - Cody Collett - National TAB		