

Report By:



National TAB  
1329 E Kemper Rd, Ste 4210  
Cincinnati, OH 45246

Report: Test and Balance  
Date: 2/21/2019

**PROJECT**  
**FREDDY'S - CREVE COEUR, MO**

10453 Olive Blvd.  
Creve Coeur, MO 63141

**Client**

Freddy's Frozen Custard & Steakburgers (CORPORATE)  
260 N Rock Rd  
Suite 200  
Wichita, KS 67206

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# National TAB

Project: FREDDY'S - CREVE COEUR, MO

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# National TAB

Project: FREDDY'S - CREVE COEUR, MO

## System/Unit: AHU/RTU

Asset: RTU1

AREA: DINING

Unit Data		
	Design	Actual
MFG	LENNOX	TRANE
Model Num	KGB092S4B	YHC092F3RMA
Serial Num	-	182112333L
Type	RTU	RTU
Configuration	VERTICAL DSICHARGE	VERTICAL DSICHARGE
Num OA Filters 1	-	1
OA Filter Size 1	-	37X15
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	NA
Final Filter Size 2	-	NA

Test Data		
	Design	Actual
SF CFM	3000	3184
SF RPM	-	1157
RA CFM	-	2626
OA CFM	535	558
RL Voltage	-	211/211/211
RL Amperage	-	2.3/2.3/2.3
SF Rotation	-	CW, CORRECT
RA Damper Position	-	8"
Min OA Damper Position	-	1.25"
Min OA Damper Type	-	MOTORIZED DAMPER
Brake Horse Power	-	0.87

Motor Data		
	Design	Actual
Motor MFG	-	[1]
Frame	-	[1]
Horsepower	3	2.75
Motor Rpm	-	[1]
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	7.3

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.25"
Fan Suction SP	-	-0.55"
Fan Discharge SP	-	0.40"
Total ESP	-	0.65"
Fan Total SP	-	0.95"

Drive Data		
	Design	Actual
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	DD
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

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

Completed By: Travis Halter on 07/23/2018

Notes: [1] Unable to access motor sticker, motor data taken from unit sticker.



# National TAB

Project: FREDDY'S - CREVE COEUR, MO

System/Unit: AHU/RTU

## Diffuser Supply (GRD)

### RTU1 / DINING

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
RTU1-SGRD1	DINING	SD1	12	475	1	724	561	521	109.7
RTU1-SGRD2	DINING	SD1	12	475	1	570	542	515	108.4
RTU1-SGRD3	VESTIBULE	SD7	8	150	1	165	166	158	105.3
RTU1-SGRD4	DINING	SD1	12	475	1	401	512	486	102.3
RTU1-SGRD5	DINING	SD1	12	475	1	482	509	484	101.9
RTU1-SGRD6	DINING	SD1	12	475	1	499	519	493	103.8
RTU1-SGRD7	DINING	SD1	12	475	1	608	555	527	110.9

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Asset	Area Served	Notes



# National TAB

Project: FREDDY'S - CREVE COEUR, MO

## System/Unit: AHU/RTU

Asset: RTU2

AREA: DINING

Unit Data		
	Design	Actual
MFG	LENNOX	TRANE
Model Num	KGB092S4B	YHC092F3RMA
Serial Num	-	182112329L
Type	RTU	RTU
Configuration	VERTICAL DSICHARGE	VERTICAL DSICHARGE
Num OA Filters 1	-	1
OA Filter Size 1	-	35.5X16
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	NA
Final Filter Size 2	-	NA

Test Data		
	Design	Actual
SF CFM	3000	3108
SF RPM	-	1000
RA CFM	-	2547
OA CFM	535	561
RL Voltage	-	210/210/210
RL Amperage	-	1.36/1.36/1.36
SF Rotation	-	CW,CORRECT
RA Damper Position	-	12" OPEN
Min OA Damper Position	-	1.5" OPEN
Min OA Damper Type	-	MOTORIZED DAMPER
Brake Horse Power	-	0.51

Motor Data		
	Design	Actual
Motor MFG	-	[1]
Frame	-	[1]
Horsepower	3	2.75
Motor Rpm	-	[1]
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	7.3

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.19"
Fan Suction SP	-	-0.41"
Fan Discharge SP	-	0.25"
Total ESP	-	0.44"
Fan Total SP	-	0.66"

Drive Data		
	Design	Actual
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Motor Sheave SetPt	-	DD
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment	-	DD

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

Completed By: Travis Halter on 07/11/2018

Notes: [1] Unable to access motor sticker, motor data taken from unit sticker.



# National TAB

Project: FREDDY'S - CREVE COEUR, MO

System/Unit: AHU/RTU

## Diffuser Supply (GRD)

### RTU2 / DINING

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
RTU2-SGRD1	DINING	SD1	12	500	1	579	481	492	98.4
RTU2-SGRD2	DINING	SD1	12	450	1	542	450	459	102.0
RTU2-SGRD3	DINING	SD1	12	425	1	592	497	438	103.1
RTU2-SGRD4	DINING	SD1	12	425	1	500	415	446	104.9
RTU2-SGRD5	DINING	SD1	12	450	1	578	480	479	106.4
RTU2-SGRD6	DINING	SD1	12	425	1	543	451	441	103.8
RTU2-SGRD7	HALLWAY	SD5	6	100	1	64	53	91	91.0
RTU2-SGRD8	WOMEN RR	SD6	8	150	1	231	192	164	109.3
RTU2-SGRD9	MEN RR	SD5	6	100	1	93	77	98	98.0

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Asset	Area Served	Notes



# National TAB

Project: FREDDY'S - CREVE COEUR, MO

## System/Unit: AHU/RTU

Asset: RTU3

AREA: KITCHEN

Unit Data		
	Design	Actual
MFG	LENNOX	TRANE
Model Num	KGB150S4B	YHD150G3RHB
Serial Num	-	182111035D
Type	RTU	RTU
Configuration	VERTICAL DISCHARGE	VERTICAL DISCHARGE
Num OA Filters 1	-	1
OA Filter Size 1	-	60X17
Num Final Filter 1	-	6
Final Filter Size 1	-	20X20X2
Num Final Filter 2	-	NA
Final Filter Size 2	-	NA

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	5	3
Motor Rpm	-	1725
Phase	3	3
Rated Voltage	208	208-230/460
Rated Amperage	-	9.4-9.2/4.6

Drive Data		
	Design	Actual
Motor Sheave Size	-	3.74"
Motor Bore Size	-	0.875"
Motor Sheave SetPt	-	2.5
Fan Sheave Size	-	BK110
Fan Sheave Bore	-	1 3/16"
Belt CL Distance	-	21"
Num of Belts	-	1
Belt Size	-	BX68
Belt Alignment	-	GOOD

Test Data		
	Design	Actual
SF CFM	4500	4293
SF RPM	-	549
RA CFM	-	2458
OA CFM	725	1835
RL Voltage	-	212/212/212
RL Amperage	-	6.0/6.0/6.0
SF Rotation	-	CW, CORRECT
RA Damper Position	-	4" OPEN
Min OA Damper Position	-	2" OPEN
Min OA Damper Type	-	ECONOMIZER
Brake Horse Power	-	1.91

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.21"
Fan Suction SP	-	-0.42"
Fan Discharge SP	-	0.20"
Total ESP	-	0.41"
Fan Total SP	-	0.62"

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

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Notes: [1] OA is not functioning, will need to revisit and set properly



# National TAB

Project: FREDDY'S - CREVE COEUR, MO

System/Unit: AHU/RTU

## Diffuser Supply (GRD)

### RTU3 / KITCHEN

Asset	Area Served	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
RTU3-SGRD1	KITCHEN	SD2	12	425	1	431	401	401	94.4
RTU3-SGRD2	KITCHEN	SD2	12	425	1	333	388	388	91.3
RTU3-SGRD3	KITCHEN	SD3	12	425	1	353	389	389	91.5
RTU3-SGRD4	KITCHEN	SD3	12	425	1	354	391	391	92.0
RTU3-SGRD5	KITCHEN	SD3	12	427	1	387	388	388	90.9
RTU3-SGRD6	OFFICE	SD4	10	200	1	290	281	281	140.5
RTU3-SGRD7	KITCHEN	SD3	12	450	1	431	421	421	93.6
RTU3-SGRD8	MECHANICAL	SD1	12	450	1	333	406	406	90.2
RTU3-SGRD9	ACPSP	ACPSP	108	500	0.76	776	512	512	102.4
RTU3-SGRD10	ACPSP	ACPSP	60	348	0.76	300	314	314	90.2
SGRD11	KITCHEN	SD3	12	425	1	361	402	402	94.6

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Asset	Area Served	Notes
RTU3-SGRD6	OFFICE	[1] No accessibility to damper



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Project: FREDDY'S - CREVE COEUR, MO

## System/Unit: FAN - Supply

Asset: MAU1

AREA: HD1&2

Unit Data		
	Design	Actual
<b>MFG</b>	CAPTIVE-AIRE	CAPTIVE-AIRE
<b>Model Num</b>	A1-D.250-G10	A1-D.250-G10
<b>Serial Num</b>	-	3237482
<b>Type</b>	MAU	MAU
<b>Configuration</b>	VERTICAL DSICHARGE	VERTICAL

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	WEG
<b>Frame</b>	-	56H
<b>Horsepower</b>	1.5	1.5
<b>Motor Rpm</b>	-	1760
<b>Phase</b>	3	3
<b>Voltage (rated)</b>	208	208-230/460
<b>Amperage (rated)</b>	-	4.64-4.83/2.41
<b>Service Factor</b>	-	1.15

Drive Data		
	Design	Actual
<b>Motor Sheave Size</b>	-	VL40
<b>Motor Bore Size</b>	-	0.625"
<b>Fan Sheave Size</b>	-	AK54
<b>Fan Sheave Bore</b>	-	0.75"
<b>Belt CL Distance</b>	-	14"
<b>Num of Belts</b>	-	1
<b>Belt Size</b>	-	AX39
<b>Belt Alignment Verified</b>	-	GOOD

Gas Heat		
	Design	Actual
<b>Heater Operates (y/n)</b>	-	YES
<b>Flame Status (pass/fail)</b>	-	PASS
<b>Inlet Air Temp SetPt</b>	55	55
<b>Discharge Air Temp SetPt</b>	-	60
<b>Air Flow Switch SP Actual</b>	-	0.32

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Notes:

Test Data		
	Design	Actual
<b>CFM</b>	1905	1790
<b>SF RPM</b>	996	1064
<b>Motor RPM</b>	-	1783
<b>RL Voltage</b>	-	211/211/211
<b>RL Amperage</b>	-	2.6/2.6/2.6
<b>Total ESP</b>	0.40"	NA
<b>Fan Discharge SP</b>	-	NA

General		
	Design	Actual
<b>Fan Rotation Correct</b>	-	YES



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Project: FREDDY'S - CREVE COEUR, MO

## System/Unit: FAN - Exhaust

Asset: EF1

AREA: WOMENS RR

Unit Data		
	Design	Actual
<b>MFG</b>	COOK	DAYTON
<b>Model Num</b>	GC164	5AE69A
<b>Serial Num</b>	-	14116030
<b>Type</b>	CENTRIFUGAL	CENTRIFUGAL
<b>Configuration</b>	CEILING	CEILING

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	FASCO
<b>Frame</b>	-	NL
<b>Horsepower</b>	136W	NL
<b>Motor Rpm</b>	-	1025
<b>Phase</b>	1	1
<b>Voltage (rated)</b>	120	115
<b>Amperage (rated)</b>	-	1.8
<b>Service Factor</b>	-	1.0

Test Data		
	Design	Actual
<b>CFM</b>	150	183
<b>Fan RPM</b>	1300	DD
<b>Fan Rotation</b>	-	CCW, CORRECT
<b>Motor RPM</b>	-	DD
<b>System SetPt</b>	-	SINGLE SPEED
<b>RL Voltage</b>	-	121
<b>RL Amperage</b>	-	1.4
<b>Total ESP</b>	0.25"	[1]
<b>Fan Inlet SP</b>	-	ATM
<b>Fan Discharge SP</b>	-	[1]

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- Notes: [1] Ductwork located above hard ceiling  
 [2] Single speed direct drive unit. No speed adjustment available



# National TAB

Project: FREDDY'S - CREVE COEUR, MO

## System/Unit: FAN - Exhaust

Asset: EF2

AREA: MENS RR

Unit Data		
	Design	Actual
<b>MFG</b>	COOK	DAYTON
<b>Model Num</b>	GC164	5AE69A
<b>Serial Num</b>	-	14116029
<b>Type</b>	CENTRIFUGAL	CENTRIFUGAL
<b>Configuration</b>	CEILING	CEILING

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	FASCO
<b>Frame</b>	-	NL
<b>Horsepower</b>	136W	NL
<b>Motor Rpm</b>	-	1025
<b>Phase</b>	1	1
<b>Voltage (rated)</b>	120	115
<b>Amperage (rated)</b>	-	1.8
<b>Service Factor</b>	-	1.0

Test Data		
	Design	Actual
<b>CFM</b>	150	135
<b>Fan RPM</b>	1300	DD
<b>Fan Rotation</b>	-	CCW, CORRECT
<b>Motor RPM</b>	-	DD
<b>System SetPt</b>	-	SINGLE SPEED
<b>RL Voltage</b>	-	121
<b>RL Amperage</b>	-	1.3
<b>Total ESP</b>	0.25"	[1]
<b>Fan Inlet SP</b>	-	ATM
<b>Fan Discharge SP</b>	-	[1]

Completed By: Travis Halter on 07/11/2018

- Notes: [1] Ductwork located above hard ceiling  
 [2] Single speed direct drive unit. No speed adjustment available



# National TAB

Project: FREDDY'S - CREVE COEUR, MO

System/Unit: FAN - Exhaust

Asset: KEF1

AREA: HD1

Unit Data		
	Design	Actual
<b>MFG</b>	CAPTIVE- AIRE	CAPTIVE- AIRE
<b>Model Num</b>	DU85HFA	DU85HFA
<b>Serial Num</b>	-	3237482
<b>Type</b>	CENTRIFUGAL	CENTRIFUGAL
<b>Configuration</b>	UPBLAST	UPBLAST

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	HSSA
<b>Frame</b>	-	48Y
<b>Horsepower</b>	0.75	0.75
<b>Motor Rpm</b>	-	1625
<b>Phase</b>	1	1
<b>Voltage (rated)</b>	115	115
<b>Amperage (rated)</b>	-	7.2
<b>Service Factor</b>	-	1.0

Test Data		
	Design	Actual
<b>CFM</b>	1600	1644
<b>Fan RPM</b>	1350	DD
<b>Fan Rotation</b>	-	CCW
<b>Motor RPM</b>	-	DD
<b>System SetPt</b>	-	NA
<b>RL Voltage</b>	-	97
<b>RL Amperage</b>	-	5.9
<b>Total ESP</b>	1.20"	0.52"
<b>Fan Inlet SP</b>	-	-0.52"
<b>Fan Discharge SP</b>	-	ATM

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Notes:



# National TAB

Project: FREDDY'S - CREVE COEUR, MO

System/Unit: FAN - Exhaust

Asset: KEF2

AREA: HD2

Unit Data		
	Design	Actual
<b>MFG</b>	CAPTIVE- AIRE	CAPTIVE- AIRE
<b>Model Num</b>	DU50HFA	DU50HFA
<b>Serial Num</b>	-	3237482
<b>Type</b>	CENTRIFUGAL	CENTRIFUGAL
<b>Configuration</b>	UPBLAST	UPBLAST

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	HSSA
<b>Frame</b>	-	48Y
<b>Horsepower</b>	0.50	0.5
<b>Motor Rpm</b>	-	1625
<b>Phase</b>	1	1
<b>Voltage (rated)</b>	115	115
<b>Amperage (rated)</b>	-	5.8
<b>Service Factor</b>	-	1.0

Test Data		
	Design	Actual
<b>CFM</b>	775	777
<b>Fan RPM</b>	1441	DD
<b>Fan Rotation</b>	-	CCW
<b>Motor RPM</b>	-	DD
<b>System SetPt</b>	-	NA
<b>RL Voltage</b>	-	117
<b>RL Amperage</b>	-	3.6
<b>Total ESP</b>	1.25"	1.22"
<b>Fan Inlet SP</b>	-	-1.22
<b>Fan Discharge SP</b>	-	ATM

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Notes:



# National TAB

Project: FREDDY'S - CREVE COEUR, MO

System/Unit: FAN - Exhaust

Asset: KEF3

AREA: DISH

Unit Data		
	Design	Actual
<b>MFG</b>	CAPTIVE- AIRE	CAPTIVE- AIRE
<b>Model Num</b>	DU30HFA	DU30HFA
<b>Serial Num</b>	-	3237482
<b>Type</b>	CENTRIFUGAL	CENTRIFUGAL
<b>Configuration</b>	UPBLAST	UPBLAST

Motor Data		
	Design	Actual
<b>Motor MFG</b>	-	HSSA
<b>Frame</b>	-	48Y
<b>Horsepower</b>	0.25	0.25
<b>Motor Rpm</b>	-	1625
<b>Phase</b>	1	1
<b>Voltage (rated)</b>	115	115
<b>Amperage (rated)</b>	-	3.0
<b>Service Factor</b>	-	1.0

Test Data		
	Design	Actual
<b>CFM</b>	525	542
<b>Fan RPM</b>	1210	DD
<b>Fan Rotation</b>	-	CCW, CORRECT
<b>Motor RPM</b>	-	DD
<b>System SetPt</b>	-	NA
<b>RL Voltage</b>	-	73
<b>RL Amperage</b>	-	2.2
<b>Total ESP</b>	0.50"	0.44"
<b>Fan Inlet SP</b>	-	-0.44"
<b>Fan Discharge SP</b>	-	ATM

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Notes:



# National TAB

Project: FREDDY'S - CREVE COEUR, MO

## System/Unit: Kitchen Hood Type I

Asset: HD1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVE AIRE	CAPTIVE AIRE
Model Num	5424 ND-2-ACPSP-F	5424 ND-2-ACPSP-F
Job / Serial Num	-	3237482
Type	TYPE I CANOPY	TYPE I
Hood length	96	96"
Hood Width	54	54"
Supply Plenum Type	ACPSP	ACPSP
Supply Plenum Width	24	14"
Supply Plenum Length	108	108"

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	16X16	16X16
Filter Size 2	-	NA
Filter Qty 1	5	5
Filter Qty 2	-	NA
Filter AK factor size 1	1.62	1.62
Filters AK factor size 2	-	NA
Filter Total AK Area	8.1	8.1
Filter1 FPM	-	208
Filter2 FPM	-	207
Filter3 FPM	-	201
Filter4 FPM	-	208
Filter5 FPM	-	189
Filter6 FPM	-	NA
Filter7 FPM	-	NA
Filter8 FPM	-	NA
Filter9 FPM	-	NA
Filter10 FPM	-	NA
Filter11 FPM	-	NA
Filter12 FPM	-	NA
Filter Ave FPM(corr)	-	203
CFM	1600	1644

Cooking Equipment		
	Design	Actual
Item 1	-	GRILL
Item 2	-	NA
Item 3	-	NA
Item 4	-	NA
Item 5	-	NA

Test Data Supply		
	Design	Actual
AK factor	-	1
Total AK Area	-	10.5
Kv factor (Vel)	-	0.9
Num of Readings	-	8
Reading1 FPM	-	164
Reading2 FPM	-	117
Reading3 FPM	-	135
Reading4 FPM	-	111
Reading5 FPM	-	101
Reading6 FPM	-	129
Reading7 FPM	-	128
Reading8 FPM	-	105
Reading9 FPM	-	NA
Reading10 FPM	-	NA
Reading11 FPM	-	NA
Reading12 FPM	-	NA
Reading13 FPM	-	NA
Reading14 FPM	-	NA
Ave FPM(corr)	-	124
CFM	1296	1172

Performance Data		
	Design	Actual
Exh-Supply Net CFM	-	472
Smoke Generation Type	-	SMOKE EMITTER
Cooking Equip Heat On	-	NO
Hood Capture %	-	100%
End Panels Installed (Y/N)	-	YES
Space Offset Temp Riser 1	-	15.0
Space Offset Temp Riser 2	-	NA
Riser Temp F (idle) Riser 1	-	62.6
Riser Temp F (idle) Riser 2	-	NA
Ambient Room Temp	-	72.5

General		
	Design	Actual
Third Party Witness	-	ALEXIS WHITE
Third Party Company	-	FREDDY'S
Tech Witness	-	TRAVIS HALTER
Tech Company	-	NATIONAL TAB



# National TAB

Project: FREDDY'S - CREVE COEUR, MO

## System/Unit: Kitchen Hood Type I

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Notes:



# National TAB

Project: FREDDY'S - CREVE COEUR, MO

## System/Unit: Kitchen Hood Type I

Asset: HD2

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVE- AIRE	CAPTIVE- AIRE
Model Num	5424 ND-2- ACPSP-F	5424 ND-2- ACPSP-F
Job / Serial Num	-	3237482
Type	TYPE I CANOPY	TYPE I
Hood length	60	60"
Hood Width	54	54"
Supply Plenum Type	ACPSP	ACPSP
Supply Plenum Width	22	12"
Supply Plenum Length	60	60"

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	16X16	16X16
Filter Size 2	-	NA
Filter Qty 1	3	3
Filter Qty 2	-	NA
Filter AK factor size 1	1.62	1.62
Filters AK factor size 2	-	NA
Filter Total AK Area	3.86	4.86
Filter1 FPM	-	153
Filter2 FPM	-	160
Filter3 FPM	-	165
Filter4 FPM	-	NA
Filter5 FPM	-	NA
Filter6 FPM	-	NA
Filter7 FPM	-	NA
Filter8 FPM	-	NA
Filter9 FPM	-	NA
Filter10 FPM	-	NA
Filter11 FPM	-	NA
Filter12 FPM	-	NA
Filter Ave FPM(corr)	-	160
CFM	775	777

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

Test Data Supply		
	Design	Actual
AK factor	-	1
Total AK Area	-	5
Kv factor (Vel)	-	0.87
Num of Readings	-	4
Reading1 FPM	-	121
Reading2 FPM	-	143
Reading3 FPM	-	153
Reading4 FPM	-	151
Reading5 FPM	-	NA
Reading6 FPM	-	NA
Reading7 FPM	-	NA
Reading8 FPM	-	NA
Reading9 FPM	-	NA
Reading10 FPM	-	NA
Reading11 FPM	-	NA
Reading12 FPM	-	NA
Reading13 FPM	-	NA
Reading14 FPM	-	NA
Ave FPM(corr)	-	142
CFM	675	618

Performance Data		
	Design	Actual
Exh-Supply Net CFM	-	159
Smoke Generation Type	-	SMOKE EMITTER
Cooking Equip Heat On	-	NO
Hood Capture %	-	100%
End Panels Installed (Y/N)	-	NO
Space Offset Temp Riser 1	-	15.0
Space Offset Temp Riser 2	-	NA
Riser Temp F (idle) Riser 1	-	64.7
Riser Temp F (idle) Riser 2	-	NA
Ambient Room Temp	-	72.5

General		
	Design	Actual
Third Party Witness	-	ALEXIS WHITE
Third Party Company	-	FREDDY'S
Tech Witness	-	TRAVIS HALTER
Tech Company	-	NATIONAL TAB



# National TAB

Project: FREDDY'S - CREVE COEUR, MO

## System/Unit: Kitchen Hood Type I

Completed By: Travis Halter on 07/23/2018

Notes:



# National TAB

Project: FREDDY'S - CREVE COEUR, MO

## System/Unit: Kitchen Hood Type II

Asset: HD(Type2)3

AREA:

Unit Data		
	Design	Actual
<b>MFG</b>	CAPTIVE-AIRE	CAPTIVE-AIRE
<b>Model Num</b>	4224-VHB-G	4224-VHB-G
<b>Serial Num</b>	-	3237482
<b>Type</b>	TYPE II CANOPY	TYPE II
<b>Hood length</b>	42	42"
<b>Hood Width</b>	-	42"

Test Data		
	Design	Actual
<b>Exhaust CFM</b>	525	542

Completed By: Travis Halter on 07/23/2018

Notes: