

Report By:

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



Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 12/02/2024
Completed By: National TAB

PROJECT
11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)

7716 Rea Road

CHARLOTTE, NC 28277

Client

FIREBIRD RESTAURANTS
8700 Red Oak Blvd, Unit J
CHARLOTTE, NC 28217

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Project: 11-18-24 FIREBIRDS CHARLOTTE, NC (STONECREST)

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Project: 11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)



System/Unit: AHU/RTU

Asset: RTU1

AREA:

Unit Data		
	Design	Actual
MFG	CARRIER	CARRIER
Serial Num	-	
Model Num	48THD014	48THD014
Type	RTU	
Configuration	VERTICAL	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num Final Filter 1	-	
Final Filter Size 1	-	
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	3	
Rated Voltage	208	
Rated Amperage	-	

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

Test Data		
	Design	Actual
SF CFM	5000	
SF RPM	-	
RA CFM	3500	
OA CFM	1500	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	
SF System SetPt	-	
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	
OA Enthalpy Setpt	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.60"	
Fan Total SP	-	

General	
	Actual
Fan Rotation Correct	
Unit Filters Clean	
Condensate Drain Installed	

Notes:
diffusers 3,4,5,6 all have plates or bowls too high in the rafters preventing flow. unable to balance, units " sensor" is wifi battery operated and is not functioning.

Written By: JOASH ALBIN on 12/02/2024

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Project:11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)

AHU/RTU



Diffuser Supply (GRD)

RTU1/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	ENTRY VESTIBULE	D	48/16	2000	5.33	3175			-
SGRD2	ENTRY VESTIBULE	C	48/16	600	2	900			-
SGRD3	ENTRY VESTIBULE	C	24/12	600	1				-
SGRD4	DINING	A	15X15	600	1				-
SGRD5	DINING	A	15X15	600	1				-
SGRD6	DINING	A	15X15	600	1				-
Total				5000		4075	0	0	0%

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Project: 11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)



System/Unit: AHU/RTU

Asset: RTU2

AREA:

Unit Data		
	Design	Actual
MFG	CARRIER	CARRIER
Serial Num	-	
Model Num	48TJE012	48TJE012
Type	RTU	
Configuration	VERTICAL	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num Final Filter 1	-	
Final Filter Size 1	-	
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	3	
Rated Voltage	208	
Rated Amperage	-	

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

Test Data		
	Design	Actual
SF CFM	4000	
SF RPM	-	
RA CFM	2610	
OA CFM	1390	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	
SF System SetPt	-	
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	
OA Enthalpy Setpt	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.60"	
Fan Total SP	-	

General	
	Actual
Fan Rotation Correct	
Unit Filters Clean	
Condensate Drain Installed	

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Project:11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)

AHU/RTU



Diffuser Supply (GRD)

RTU2/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	DINING	C	30X8	500					-
SGRD2	DINING	C	30X8	500					-
SGRD3	DINING	C	30X8	500					-
SGRD4	DINING	C	30X8	500					-
SGRD5	DINING	C	30X8	500					-
SGRD6	DINING	C	30X8	500					-
SGRD7	DINING	C	30X8	500					-
SGRD8	DINING	C	30X8	500					-
Total				4000		0	0	0	0%

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Project: 11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)



System/Unit: AHU/RTU

Asset: RTU3

AREA:

Unit Data		
	Design	Actual
MFG	CARRIER	CARRIER
Serial Num	-	
Model Num	48TJE006	48TJE006
Type	RTU	
Configuration	VERTICAL	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num Final Filter 1	-	
Final Filter Size 1	-	
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	3	
Rated Voltage	208	
Rated Amperage	-	

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

Test Data		
	Design	Actual
SF CFM	2000	
SF RPM	-	
RA CFM	1475	
OA CFM	525	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	
SF System SetPt	-	
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	
OA Enthalpy Setpt	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.60"	
Fan Total SP	-	

General	
	Actual
Fan Rotation Correct	
Unit Filters Clean	
Condensate Drain Installed	

Notes:
UP 25% DEPENDING ON WHAT NEW TOTALS REQUIRE

Written By: JOASH ALBIN on 11/26/2024

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 Project:11-18-24 FIREBIRDS CHARLOTTE, NC
 (STONECREST)
AHU/RTU



Diffuser Supply (GRD)

RTU3/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	BAR DINING	F	12X12	350	1	173			-
SGRD2	BAR DINING	F	12X12	350	1	145			-
SGRD3	BAR DINING	F	12X12	350	1	156			-
SGRD4	BAR DINING	F	12X12	350	1	152			-
SGRD5	BAR	F	12X12	340	1	53			-
SGRD6	RESTROOM	A	6X6	100	1	0			-
SGRD7	RESTROOM	A	6X6	60	1	0			-
SGRD8	RESTROOM	A	6X6	100	1	0			-
Total				2000		679	0	0	0%

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Project: 11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)



System/Unit: AHU/RTU

Asset: RTU4

AREA:

Unit Data		
	Design	Actual
MFG	CARRIER	CARRIER
Serial Num	-	
Model Num	48TJE006	48TJE006
Type	RTU	
Configuration	VERTICAL	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num Final Filter 1	-	
Final Filter Size 1	-	
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	3	
Rated Voltage	208	
Rated Amperage	-	

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

Test Data		
	Design	Actual
SF CFM	2000	
SF RPM	-	
RA CFM	1235	
OA CFM	765	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	
SF System SetPt	-	
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	
OA Enthalpy Setpt	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.60"	
Fan Total SP	-	

General	
	Actual
Fan Rotation Correct	
Unit Filters Clean	
Condensate Drain Installed	

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Project: 11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)

AHU/RTU



Diffuser Supply (GRD)

RTU4/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	DINING	A	12X12	500					-
SGRD2	DINING	A	12X12	500					-
SGRD3	DINING	A	12X12	500					-
SGRD4	DINING	A	12X12	500					-
Total				2000		0	0	0	0%

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Project: 11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)



System/Unit: AHU/RTU

Asset: RTU5

AREA:

Unit Data		
	Design	Actual
MFG	CARRIER	CARRIER
Serial Num	-	
Model Num	48TJD014	48TJD014
Type	RTU	
Configuration	VERTICAL	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num Final Filter 1	-	
Final Filter Size 1	-	
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	3	
Rated Voltage	208	
Rated Amperage	-	

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

Test Data		
	Design	Actual
SF CFM	5000	
SF RPM	-	
RA CFM	3805	
OA CFM	1195	
RL Voltage	-	
RL Amperage	-	
SF Rotation	-	
SF System SetPt	-	
RA Damper Position	-	
Min OA Damper Position	-	
Min OA Damper Type	-	
OA Enthalpy Setpt	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.60"	
Fan Total SP	-	

General	
	Actual
Fan Rotation Correct	
Unit Filters Clean	
Condensate Drain Installed	

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Project:11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)

AHU/RTU



Diffuser Supply (GRD)

RTU5/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	KITCHEN	A	15X15	625					-
SGRD2	KITCHEN	A	15X15	625					-
SGRD3	KITCHEN	A	15X15	625					-
SGRD4	KITCHEN	C	24/12	625					-
SGRD5	KITCHEN	A	15X15	625					-
SGRD6	KITCHEN	H	15X15	625					-
SGRD7	KITCHEN	H	15X15	625					-
SGRD8	KITCHEN	A	15X15	625					-
Total				5000		0	0	0	0%

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Project: 11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)



System/Unit: FAN - Exhaust

Asset: EF1

AREA:

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	CUBE-180HP	CUBE-180HP
Serial Num	-	
Type	UPBLAST	
Configuration	VERTICAL	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	3/4	
Motor Rpm	-	
Phase	3	
Voltage (rated)	208	
Amperage (rated)	-	
Service Factor	-	

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Motor Sheave SetPt	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

Test Data		
	Design	Actual
CFM	2400	
Fan RPM	-	
Fan Rotation	-	
Motor RPM	-	
RL Voltage	-	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	1.0"	

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Project: 11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)



System/Unit: FAN - Exhaust

Asset: EF2

AREA:

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	CUBE-180HP	CUBE-180HP
Serial Num	-	
Type	UPBLAST	
Configuration	VERTICAL	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	3/4	
Motor Rpm	-	
Phase	3	
Voltage (rated)	208	
Amperage (rated)	-	
Service Factor	-	

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Motor Sheave SetPt	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

Test Data		
	Design	Actual
CFM	2400	
Fan RPM	-	
Fan Rotation	-	
Motor RPM	-	
RL Voltage	-	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	1.0"	

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Project: 11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)



System/Unit: FAN - Exhaust

Asset: EF3

AREA:

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	CUBE-180HP	CUBE-180HP
Serial Num	-	
Type	UPBLAST	
Configuration	VERTICAL	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	1.5	
Motor Rpm	-	
Phase	3	
Voltage (rated)	208	
Amperage (rated)	-	
Service Factor	-	

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Motor Sheave SetPt	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

Test Data		
	Design	Actual
CFM	3600	
Fan RPM	-	
Fan Rotation	-	
Motor RPM	-	
RL Voltage	-	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	1.0"	

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Project: 11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)



System/Unit: FAN - Exhaust

Asset: EF4

AREA:

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	CUBE-200HP	CUBE-200HP
Serial Num	-	
Type	UPBLAST	
Configuration	VERTICAL	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	1.5	
Motor Rpm	-	
Phase	3	
Voltage (rated)	208	
Amperage (rated)	-	
Service Factor	-	

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Motor Sheave SetPt	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

Test Data		
	Design	Actual
CFM	4350	
Fan RPM	-	
Fan Rotation	-	
Motor RPM	-	
RL Voltage	-	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	1.0"	

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Project: 11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)



System/Unit: FAN - Exhaust

Asset: EF5

AREA:

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	CUBE-100	CUBE-100
Serial Num	-	
Type	UPBLAST	
Configuration	VERTICAL	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	1/4	
Motor Rpm	-	
Phase	1	
Voltage (rated)	208	
Amperage (rated)	-	
Service Factor	-	

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Motor Sheave SetPt	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

Test Data		
	Design	Actual
CFM	1000	
Fan RPM	-	
Fan Rotation	-	
Motor RPM	-	
RL Voltage	-	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.5"	

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Project: 11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)



System/Unit: FAN - Exhaust

Asset: EF6

AREA:

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	GB-80	GB-80
Serial Num	-	
Type	CENTRIFUGAL	
Configuration	VERTICAL	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	1/4	
Motor Rpm	-	
Phase	1	
Voltage (rated)	208	
Amperage (rated)	-	
Service Factor	-	

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Motor Sheave SetPt	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

Test Data		
	Design	Actual
CFM	640	
Fan RPM	-	
Fan Rotation	-	
Motor RPM	-	
RL Voltage	-	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.25"	

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Project: 11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF6/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	RESTROOM	E	12X12	280					-
EGRD2	RESTROOM	E	12X12	360					-
Total				640		0	0	0	0%

National TAB

Project: 11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)



System/Unit: FAN - Supply

Asset: SF1

AREA:

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	RSFP-120	RSFP-120
Serial Num	-	
Type	-	
Configuration	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	1.5	
Motor Rpm	-	
Phase	3	
Voltage (rated)	120	
Amperage (rated)	-	
Service Factor	-	

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	
Belt Alignment Verified	

Gas Heat		
	Design	Actual
Heater Operates (y/n)	-	
Flame Status (pass/fail)	-	
Inlet Air Temp SetPt	-	
Discharge Air Temp SetPt	-	
Air Flow Switch SP Actual	-	

Test Data		
	Design	Actual
CFM	3700	
SF RPM	-	
Motor RPM	-	
SF System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	-	
Fan Discharge SP	-	

General	
	Actual
Fan Rotation Correct	

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Project: 11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)



System/Unit: FAN - Supply

Asset: SF2

AREA:

Unit Data		
	Design	Actual
MFG	GREENHECK	GREENHECK
Model Num	RSFP-150	RSFP-150
Serial Num	-	
Type	RTU	
Configuration	VERTICAL	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	3	
Motor Rpm	-	
Phase	3	
Voltage (rated)	120	
Amperage (rated)	-	
Service Factor	-	

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	
Belt Alignment Verified	

Gas Heat		
	Design	Actual
Heater Operates (y/n)	-	
Flame Status (pass/fail)	-	
Inlet Air Temp SetPt	-	
Discharge Air Temp SetPt	-	
Air Flow Switch SP Actual	-	

Test Data		
	Design	Actual
CFM	5500	
SF RPM	-	
Motor RPM	-	
SF System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	-	
Fan Discharge SP	-	

General	
	Actual
Fan Rotation Correct	

National TAB

Project: 11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)



System/Unit: Kitchen Hood Type I

Asset: HD1

AREA:HOOD 1 FARE LEFT SECTION AS YOU LOOK AT THE HOOD

Unit Data		
	Design	Actual
MFG	NA	HOOD 1 (1 OF 3)
Model Num	NA	NA
Job / Serial Num	-	NL
Type	-	TYPE 1
Hood length	-	132
Hood Width	-	78/48
Supply Plenum Type	-	PSP
Supply Plenum Width	-	6"
Supply Plenum Length	-	132

Test Data Supply		
	Design	Actual
Total AK Area	-	5.5
Kv factor (Vel)	-	0.81
Num of Readings	-	7
Reading1 FPM	-	175
Reading2 FPM	-	105
Reading3 FPM	-	101
Reading4 FPM	-	53
Reading5 FPM	-	94
Reading6 FPM	-	118
Reading7 FPM	-	125
Ave FPM(corr)	-	89
CFM	-	489

Test Data Exhaust		
	Design	Actual
Filter Type	-	MESH
Filter Size 1	-	20X20X2
Filter Size 2	-	20X16
Filter Qty 1	-	5
Filter Qty 2	-	2
Filter AK factor size 1	-	2.68
Filters AK factor size 2	-	2.08
Filter Total AK Area	-	17.56
Filter1 FPM	-	198
Filter2 FPM	-	227
Filter3 FPM	-	294
Filter4 FPM	-	280
Filter5 FPM	-	243
Filter6 FPM	-	203
Filter7 FPM	-	224
Filter Ave FPM(corr)	-	238
CFM	-	4179

Cooking Equipment	
	Actual
Item 1	RANGE
Item 2	OVEN
Item 3	GRIDDLE
Item 4	
Item 5	

Completed By: JOASH ALBIN on 11/26/2024

Notes:

ALL HOODS PART OF HOOD 1 HAVE A 30" METAL OVERHANG THAT IS ALIGNS BACK WITH THE WALL AFTER A COUPLE OF FEET(SEE SITE PICTURES)
EF-3 SUPPLIES HOOD 1(1)

SUPPLY SIDE DISCHARGE FROM MAU SEVERLY LOW ACCROSS ALL SECTIONS OF HOOD 1/ NIGHT SHIFT WORK REQUIRED TO GET IN INSIDE THE PSP AREA TO ACCESS DUCT WORK TO INVESTIGATE FURTHER IS REQUIRED.

GETTING IN EARLY DOES NOT GIVE TECHS ADDIQUATE TIME TO INVESTIGATE AND LOCATE
BLOCKAGE/RESTRICTION

Written By: JOASH ALBIN on 11/26/2024

National TAB

Project: 11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)



System/Unit: Kitchen Hood Type I

Asset: HD2

AREA:HOOD 1(2 OF 3 MIDDLE)

Unit Data		
	Design	Actual
MFG	NA	HOOD 1(2 OF 3)
Model Num	NA	NA
Job / Serial Num	-	NL
Type	-	PSP
Hood length	-	126
Hood Width	-	78/48
Supply Plenum Type	-	OPEN
Supply Plenum Width	-	6"
Supply Plenum Length	-	126

Test Data Supply		
	Design	Actual
Total AK Area	-	5.25
Kv factor (Vel)	-	0.81
Num of Readings	-	6
Reading1 FPM	-	110
Reading2 FPM	-	108
Reading3 FPM	-	75
Reading4 FPM	-	62
Reading5 FPM	-	45
Reading6 FPM	-	102
Ave FPM(corr)	-	68
CFM	-	357

Test Data Exhaust		
	Design	Actual
Filter Type	-	BAFFLE
Filter Size 1	-	20X20X2
Filter Qty 1	-	6
Filter AK factor size 1	-	2.68
Filter Total AK Area	-	16.08
Filter1 FPM	-	97
Filter2 FPM	-	190
Filter3 FPM	-	188
Filter4 FPM	-	71
Filter5 FPM	-	144
Filter6 FPM	-	150
Filter Ave FPM(corr)	-	140
CFM	-	2251

Cooking Equipment	
	Actual
Item 1	WOOD FIRE GRILL
Item 2	
Item 3	
Item 4	
Item 5	

Completed By: JOASH ALBIN on 11/26/2024

National TAB

Project: 11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)



System/Unit: Kitchen Hood Type I

Asset: HD3

AREA:HOOD 1(3 OF 3)E RIGHT SIDE

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA
Job / Serial Num	-	NL;
Type	-	
Hood length	-	
Hood Width	-	
Supply Plenum Type	-	
Supply Plenum Width	-	
Supply Plenum Length	-	

Test Data Exhaust		
	Design	Actual
Filter Type	-	BAFFLE
Filter Size 1	-	24X20
Filter Size 2	-	
Filter Qty 1	-	2
Filter Qty 2	-	
Filter AK factor size 1	-	3.42
Filters AK factor size 2	-	
Filter Total AK Area	-	6.84
Filter1 FPM	-	150
Filter2 FPM	-	184
Filter Ave FPM(corr)	-	167
CFM	-	1142

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

Test Data Supply		
	Design	Actual
Total AK Area	-	
Kv factor (Vel)	-	
Num of Readings	-	
Reading1 FPM	-	
Reading2 FPM	-	
Reading3 FPM	-	
Reading4 FPM	-	
Reading5 FPM	-	
Reading6 FPM	-	
Reading7 FPM	-	
Reading8 FPM	-	
Reading9 FPM	-	
Reading10 FPM	-	
Reading11 FPM	-	
Reading12 FPM	-	
Reading13 FPM	-	
Reading14 FPM	-	
Ave FPM(corr)	-	
CFM	-	

National TAB

Project: 11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)



System/Unit: Kitchen Hood Type I

Asset: HD4

AREA:

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA
Job / Serial Num	-	
Type	-	
Hood length	-	
Hood Width	-	
Supply Plenum Type	-	
Supply Plenum Width	-	
Supply Plenum Length	-	

Test Data Exhaust		
	Design	Actual
Filter Type	-	
Filter Size 1	-	
Filter Size 2	-	
Filter Qty 1	-	
Filter Qty 2	-	
Filter AK factor size 1	-	
Filters AK factor size 2	-	
Filter Total AK Area	-	
Filter1 FPM	-	
Filter2 FPM	-	
Filter3 FPM	-	
Filter4 FPM	-	
Filter5 FPM	-	
Filter6 FPM	-	
Filter7 FPM	-	
Filter8 FPM	-	
Filter9 FPM	-	
Filter10 FPM	-	
Filter11 FPM	-	
Filter12 FPM	-	
Filter Ave FPM(corr)	-	
CFM	-	

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

Test Data Supply		
	Design	Actual
Total AK Area	-	
Kv factor (Vel)	-	
Num of Readings	-	
Reading1 FPM	-	
Reading2 FPM	-	
Reading3 FPM	-	
Reading4 FPM	-	
Reading5 FPM	-	
Reading6 FPM	-	
Reading7 FPM	-	
Reading8 FPM	-	
Reading9 FPM	-	
Reading10 FPM	-	
Reading11 FPM	-	
Reading12 FPM	-	
Reading13 FPM	-	
Reading14 FPM	-	
Ave FPM(corr)	-	
CFM	-	

National TAB

Project: 11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)



System/Unit: Kitchen Hood Type I

Asset: HD5

AREA:HOOD 1 FAR RIGHT SECTION AS YOU LOOK AT THE FRONT HOOD

Unit Data		
	Design	Actual
MFG	NA	HOOD 1(3 OF 3)
Model Num	NA	NA
Job / Serial Num	-	NL
Type	-	PSP
Hood length	-	
Hood Width	-	

Test Data Exhaust		
	Design	Actual
Filter Type	-	
Filter Size 1	-	
Filter Size 2	-	
Filter Qty 1	-	
Filter Qty 2	-	
Filter AK factor size 1	-	
Filters AK factor size 2	-	
Filter Total AK Area	-	
Filter1 FPM	-	
Filter2 FPM	-	
Filter3 FPM	-	
Filter4 FPM	-	
Filter5 FPM	-	
Filter6 FPM	-	
Filter7 FPM	-	
Filter8 FPM	-	
Filter9 FPM	-	
Filter10 FPM	-	
Filter11 FPM	-	
Filter12 FPM	-	
Filter Ave FPM(corr)	-	
CFM	-	

Cooking Equipment	
	Actual
Item 1	
Item 2	

National TAB

Project: 11-18-24 FIREBIRDS CHARLOTTE, NC
(STONECREST)



System/Unit: Kitchen Hood Type II

Asset: HD6

AREA:

Unit Data		
	Design	Actual
MFG	DISH EXHAUST	DISH EXHAUST
Model Num	NA	NA
Serial Num	-	NL
Type	-	TYPE 2
Hood length	-	82"
Hood Width	-	48"

Test Data		
	Design	Actual
Exhaust CFM	-	693

Notes:

ACCORDING TO PLANS THIS IS HOOD 3, BUT SEEING AS THERE MORE EXHAUST FANS THEN HOODS ON THE ROOF TECHNICIAN WANTED TO MORE ACCURETLY DEPICT EXACTLY HOW AIR IS MOVING THROUGH THIS LOCATION

10X10 SQUAR DUCT PULLING 1005 OFF VELGRID
K FATOR 0.69X1005+693.45(TOTAL CFM=693)

STAFF REPORTS THAT IT USED TO WORK OKAY, BUT THEN THE UPGRADED THE DISHWASHER BUT DID NOT CHANGE EXHASUT VALUES SO THE AREA GETS WARM WHEN THE DISH IS RUNNING AND THE AREA IS NOT ABLE TO GATHER 100% OF THE STEAM FROM THE DISHWAS

Written By: JOASH ALBIN on 11/26/2024