

Report By:

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



Report: TAB Report
Function: Test, Adjust, & Balance
Date: 07/30/2025
Completed By: National TAB

PROJECT
Costa Vida (Overland Park, KS)

8093 W 159th St

Overland Park, KS 66223

Client

Watson Mechanical
15311 West 109 St
Lenexa, KS 66219

National TAB

Project: Costa Vida (Overland Park, KS)

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Issue List

- MAU: Duct Leakage
- RTU-2: Economizer not Functional
- RTU-3: Economizer not functional
- RTU-4: Economizer not functional



Costa Vida (Overland Park, KS)

Project Issue Information

Issue Name : MAU: Duct Leakage
Description : There is a significant amount of duct leakage around the drop of the MAU. Airflow reading up on the roof was 6,685. Total Airflow reading at the PSP of each hood was 3016. Large holes where duct is not properly sealed at drop and at fittings.
Created By : National TAB **Assigned To :** National TAB - Kalen Kemp
Status : Open
Priority : Urgent **Asset Tag :** MUA-1
Originated Date : 07/28/2025 - Kalen Kemp - National TAB

Project Issue File Details



07/28/2025



07/28/2025



07/28/2025



Costa Vida (Overland Park, KS)

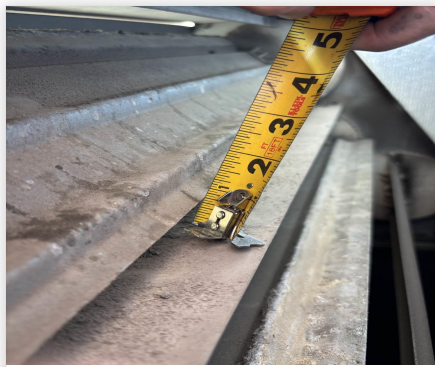
Project Issue Information

Issue Name : RTU-2: Economizer not Functional
Description : The Economizer is not functional. OA set manually. Set OA damper to 0.375"Open. Recommend service
Created By : National TAB **Assigned To :** National TAB - Kalen Kemp
Status : Open
Priority : Urgent **Asset Tag :** RTU-2
Originated Date : 07/29/2025 - Kalen Kemp - National TAB

Project Issue File Details



07/29/2025



07/29/2025

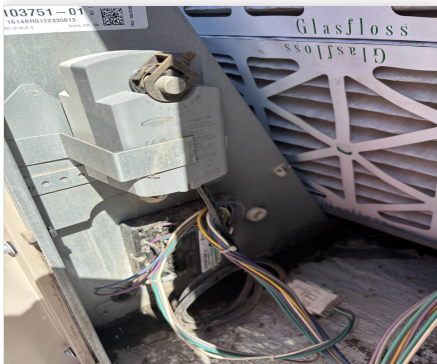


Costa Vida (Overland Park, KS)

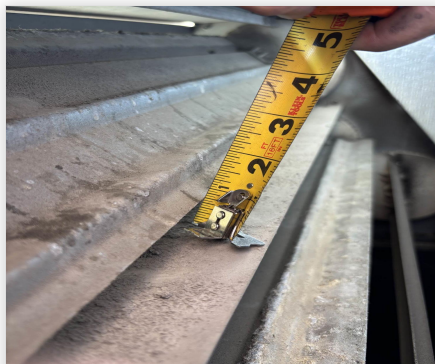
Project Issue Information

Issue Name : RTU-3: Economizer not functional
Description : The Economizer is not functional. OA was set manually. Set 0.5" open. Recommend service.
Created By : National TAB **Assigned To :** National TAB - Kalen Kemp
Status : Open
Priority : **Urgent** **Asset Tag :** RTU-3
Originated Date : 07/29/2025 - Kalen Kemp - National TAB

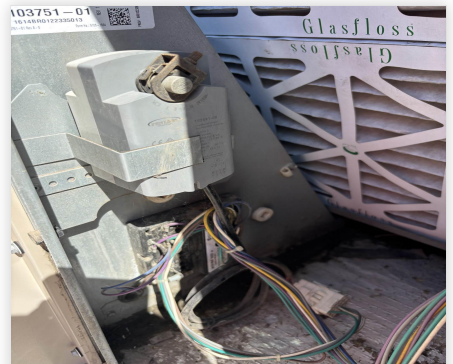
Project Issue File Details



07/29/2025



07/29/2025



07/29/2025



Costa Vida (Overland Park, KS)

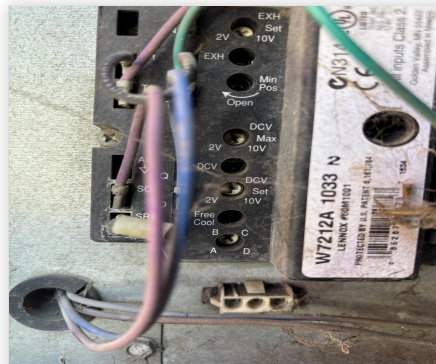
Project Issue Information

Issue Name : RTU-4: Economizer not functional
Description : The Economizer is not functional. It is missing the crew to adjust min position for OA damper. Recommend servicing.
Created By : National TAB **Assigned To :** National TAB - Kalen Kemp
Status : Open
Priority : Urgent **Asset Tag :** RTU-4
Originated Date : 07/29/2025 - Kalen Kemp - National TAB

Project Issue File Details



07/29/2025



07/29/2025

National TAB

Project: Costa Vida (Overland Park, KS)

System/Unit: AHU/RTU



Asset: RTU-1

AREA:BACK OF KITCHEN

Unit Data		
	Design	Actual
MFG	NA	LENNOX
Serial Num	-	5616F08731
Model Num	NA	ZGA060S4BH1Y
Configuration	-	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	16.125X27.625"
Num PreFilter 1	-	4
PreFilter Size 1	-	14X20X2

Test Data		
	Design	Actual
SF CFM	-	2258
SF RPM	-	1321
RA CFM	-	1893
OA CFM	-	365
RL Voltage	-	206
RL Amperage	-	3.12
OA Damper Position	-	0.25" OPEN
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	1.5
Motor Rpm	-	
Phase	-	3
Rated Voltage	-	
Rated Amperage	-	6.6
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.56
Fan Suction SP	-	-0.75
Fan Discharge SP	-	0.45
Total ESP	-	1.01
Fan Total SP	-	1.20
Cooling Coil P.D.	-	0.22

Drive Data	
	Actual
Motor Sheave Size	4.625"
Motor Bore Size	0.875"
Motor Sheave SetPt	0 TURNS
Fan Sheave Size	5"
Fan Sheave Bore	0.625"
Belt CL Distance	15"
Num of Belts	1
Belt Size	AX42

Completed By: Kalen Kemp on 07/29/2025

Notes:
 INITIAL SF CFM: 2353
 INITIAL SF RPM: 1433
 INITIAL MOTOR RPM: 1725
 FINAL MOTOR RPM: 1740
 ECONOMIZER NOT FUNCTIONAL

Written By: Kalen Kemp on 07/29/2025

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Project: Costa Vida (Overland Park, KS)

System/Unit: AHU/RTU



Asset: RTU-2

AREA:FRONT OF KITCHEN/ORDERING

Unit Data		
	Design	Actual
MFG	NA	LENNOX
Serial Num	-	5616F06800
Model Num	NA	ZGA060S4BH1Y
Configuration	-	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	16.125X27.625
Num PreFilter 1	-	4
PreFilter Size 1	-	14X20X2

Test Data		
	Design	Actual
SF CFM	-	2237
SF RPM	-	1322
RA CFM	-	1826
OA CFM	-	411
RL Voltage	-	208
RL Amperage	-	3.95
OA Damper Position	-	0.625" OPEN
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	1.5
Motor Rpm	-	
Phase	-	3
Rated Voltage	-	
Rated Amperage	-	6.6
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.51
Fan Suction SP	-	-0.72
Fan Discharge SP	-	0.54
Total ESP	-	1.05
Fan Total SP	-	1.26
Cooling Coil P.D.	-	0.21

Drive Data	
	Actual
Motor Sheave Size	4.625"
Motor Bore Size	0.875"
Motor Sheave SetPt	0 TURNS
Fan Sheave Size	5"
Fan Sheave Bore	0.625"
Belt CL Distance	15"
Num of Belts	1
Belt Size	AX42

Completed By: Kalen Kemp on 07/29/2025

Notes:
 INITIAL SF CFM: 2405
 INITIAL SF RPM: 1432
 INITIAL MOTOR RPM: 1715
 FINAL MOTOR RPM: 1735

Written By: Kalen Kemp on 07/29/2025

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Project: Costa Vida (Overland Park, KS)
System/Unit: AHU/RTU



Asset: RTU-3

AREA: DINING

Unit Data		
	Design	Actual
MFG	NA	LENNOX
Serial Num	-	5616G04492
Model Num	NA	ZGA060S4BH1Y
Configuration	-	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	16.25X27.75
Num PreFilter 1	-	4
PreFilter Size 1	-	14X20X2"

Test Data		
	Design	Actual
SF CFM	-	1855
SF RPM	-	1436
RA CFM	-	1418
OA CFM	-	437
RL Voltage	-	206
RL Amperage	-	4.66
OA Damper Position	-	0.5" OPEN
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	1.5
Motor Rpm	-	
Phase	-	3
Rated Voltage	-	
Rated Amperage	-	6.6
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.66"
Fan Suction SP	-	-0.86"
Fan Discharge SP	-	0.61"
Total ESP	-	1.27"
Fan Total SP	-	1.47"
Cooling Coil P.D.	-	0.16"

Drive Data	
	Actual
Motor Sheave Size	4.625"
Motor Bore Size	0.875"
Motor Sheave SetPt	2 TURNS IN
Fan Sheave Size	5"
Fan Sheave Bore	0.625"
Belt CL Distance	15"
Num of Belts	1
Belt Size	AX42

Completed By: Kalen Kemp on 07/29/2025

Notes:
INITIAL SF CFM: 1855
INITIAL SF RPM: 1436
INITIAL MOTOR RPM: 1725
FINAL MOTOR RPM: 1725

Written By: Kalen Kemp on 07/29/2025

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Project: Costa Vida (Overland Park, KS)
System/Unit: AHU/RTU



Asset: RTU-4

AREA:FRONT OF HOUSE/DINING

Unit Data		
	Design	Actual
MFG	NA	LENNOX
Serial Num	-	5616A05332
Model Num	NA	ZGA060S4BH1Y
Configuration	-	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	16.625X27.75
Num PreFilter 1	-	4
PreFilter Size 1	-	14X20X2

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	1.5
Motor Rpm	-	
Phase	-	3
Rated Voltage	-	
Rated Amperage	-	6.6
Service Factor	-	

Drive Data	
	Actual
Motor Sheave Size	4.625"
Motor Bore Size	0.875"
Motor Sheave SetPt	2.5 TURNS IN
Fan Sheave Size	5"
Fan Sheave Bore	0.625"
Belt CL Distance	15"
Num of Belts	1
Belt Size	AX42

Test Data		
	Design	Actual
SF CFM	-	1823
SF RPM	-	1529
RA CFM	-	1823
OA CFM	-	0
RL Voltage	-	NOT ACCESSIBLE
RL Amperage	-	5.25
OA Damper Position	-	0' OPEN
Brake Horse Power	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.60
Fan Suction SP	-	-0.82
Fan Discharge SP	-	0.87
Total ESP	-	1.47
Fan Total SP	-	1.69
Cooling Coil P.D.	-	0.23

Completed By: Kalen Kemp on 07/29/2025

Notes:

- INITIAL SF CFM: 1744
- INITIAL SF RPM: 1463
- FINAL MOTOR RPM: 1730
- INITIAL MOTOR SHEAVE SETPT: 1.5 TURNS IN
- *ECONOMIZER NOT FUNCTIONAL.
- *SET SCREW RUSTED STUCK. COULD NOT MANUALLY SET OA DAMPER

Written By: Kalen Kemp on 07/29/2025

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Project: Costa Vida (Overland Park, KS)
System/Unit: FAN - Exhaust



Asset: EF-1

AREA:

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE-AIRE
Model Num	NA	NCA18FA
Serial Num	-	NL
Type	-	UPBLAST

Test Data		
	Design	Actual
CFM	3850	2870
Fan RPM	-	1037
RL Voltage	-	206
RL Amperage	-	3.66
Suction ESP	-	0.51
Discharge ESP	-	ATM
Total ESP	-	0.51
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56HZ
Horsepower	-	2.0
Motor Rpm	-	1740
Phase	-	3
Voltage (rated)	-	208-230/460
Amperage (rated)	-	5.95-5.38/2.69
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	4"
Motor Bore Size	0.875"
Motor Sheave SetPt	1 TURN IN
Fan Sheave Size	5.75"
Fan Sheave Bore	1"
Belt CL Distance	6.5"
Num of Belts	2
Belt Size	BX25

- Notes:
- COULD NOT MOVE MOTOR FAR ENOUGH TO REMOVE BELT
 - UNABLE TO ADJUST MOTOR SHEAVE
 - COULD NOT INCREASE FAN SPEED

Written By: Kalen Kemp on 07/29/2025

National TAB

Project: Costa Vida (Overland Park, KS)
System/Unit: FAN - Exhaust



Asset: EF-2

AREA:

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE-AIRE
Model Num	NA	NCA18FA
Serial Num	-	NL
Type	-	UPBLAST

Test Data		
	Design	Actual
CFM	3840	3245
Fan RPM	-	1062
RL Voltage	-	206
RL Amperage	-	3.54
Suction ESP	-	-0.46
Discharge ESP	-	ATM
Total ESP	-	0.46
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56HZ
Horsepower	-	2.0
Motor Rpm	-	1740
Phase	-	3
Voltage (rated)	-	208-230/460
Amperage (rated)	-	5.95-5.38/2.69
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	4"
Motor Bore Size	0.875"
Motor Sheave SetPt	2.5 TURNS IN
Fan Sheave Size	5.75"
Fan Sheave Bore	1"
Belt CL Distance	6.25"
Num of Belts	2
Belt Size	BX25

Notes:

- COULD NOT MOVE MOTOR FAR ENOUGH TO REMOVE BELT
- UNABLE TO ADJUST MOTOR SHEAVE
- COULD NOT INCREASE FAN SPEED

Written By: Kalen Kemp on 07/29/2025

National TAB

Project: Costa Vida (Overland Park, KS)
System/Unit: FAN - Exhaust



Asset: EF-3

AREA:

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE-AIRE
Model Num	NA	DU50HFA
Serial Num	-	NL
Type	-	UPBLAST

Test Data		
	Design	Actual
CFM	600	638
Fan RPM	-	882
RL Voltage	-	120
RL Amperage	-	1.36
Suction ESP	-	-0.37
Discharge ESP	-	ATM
Total ESP	-	0.37
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	48Y
Horsepower	-	0.5
Motor Rpm	-	1800
Phase	-	1
Voltage (rated)	-	120/240
Amperage (rated)	-	5.6/3.2
Service Factor	-	NL

Drive Data	
	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

Notes:
ECM at 49%

Written By: Kalen Kemp on 07/29/2025

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Project: Costa Vida (Overland Park, KS)
System/Unit: FAN - Exhaust



Asset: EF-4

AREA:

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE-AIRE
Model Num	NA	DU50HFA
Serial Num	-	NL
Type	-	UPBLAST

Test Data		
	Design	Actual
CFM	600	638
Fan RPM	-	1224
RL Voltage	-	117
RL Amperage	-	2.84
Suction ESP	-	-0.87
Discharge ESP	-	ATM
Total ESP	-	0.87
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	48Y
Horsepower	-	0.5
Motor Rpm	-	1800
Phase	-	1
Voltage (rated)	-	120/240
Amperage (rated)	-	5.6/3.2
Service Factor	-	

Drive Data	
	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

Notes:
ECM set to 68%

Written By: Kalen Kemp on 07/29/2025

National TAB

Project: Costa Vida (Overland Park, KS)
System/Unit: FAN - Supply



Asset: MUA-1

AREA:MAU (KITCHEN HOODS)

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE-AIRE
Model Num	NA	A4-D.100-920-MPU
Serial Num	-	NL
Type	-	MAU
Configuration	-	VERTICAL
Num Filters Size 1	-	10
Filter Size 1	-	14X18

Motor Data		
	Design	Actual
Motor MFG	-	WESTINGHOUSE
Frame	-	184T
Horsepower	-	5
Motor Rpm	-	1750
Phase	-	3
Voltage (rated)	-	230/460
Amperage (rated)	-	13.6/6.80
Service Factor	-	1.13

Drive Data	
	Actual
Motor Sheave Size	5.875"
Motor Bore Size	1.125"
Motor Sheave SetPt	3 TURNS
Fan Sheave Size	9.75"
Fan Sheave Bore	1.5"
Belt CL Distance	28"
Num of Belts	2
Belt Size	BX75

Test Data		
	Design	Actual
CFM	-	6685
SF RPM	-	
Motor Frequency	-	
SF System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	-	
Brake Horse Power	-	

Notes:

-OA INTAKE READING: 6685

-HOOD TOTAL READINGS: 3016

*FOUND LARGE GAP BETWEEN MAIN TRUNK AND DROP WHERE LARGE AMOUNTS OF AIRFLOW IS LEAKING INTO CEILING

Written By: Kalen Kemp on 07/29/2025

National TAB

Project: Costa Vida (Overland Park, KS)

System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:FRONT HOOD

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE-AIRE
Model Num	NA	NL
Job / Serial Num	-	NL
Type	-	TYPE I - ACPSP
Hood length	-	168"
Hood Width	-	54"
Supply Plenum Type	-	ACPSP
Supply Plenum Width	-	18"
Supply Plenum Length	-	180"

Test Data Exhaust		
	Design	Actual
Filter Type	-	BAFFLE
Filter Size 1	-	16X20
Filter Qty 1	-	10
Filter AK factor size 1	-	2.08
Filter Total AK Area	-	20.8
Filter1 FPM	-	107
Filter2 FPM	-	125
Filter3 FPM	-	128
Filter4 FPM	-	121
Filter5 FPM	-	139
Filter6 FPM	-	129
Filter7 FPM	-	164
Filter8 FPM	-	179
Filter9 FPM	-	163
Filter10 FPM	-	120
Filter Ave FPM(corr)	-	138
CFM	3850	2870

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

Test Data Supply		
	Design	Actual
Total Area	-	22.5
Kv factor (Vel)	-	0.88
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	3080	

Completed By: Kalen Kemp on 07/29/2025

National TAB

Project: Costa Vida (Overland Park, KS)

System/Unit: Kitchen Hood Type I



Asset: HD2

AREA:BACK HOOD

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE-AIRE
Model Num	NA	NL
Job / Serial Num	-	NL
Type	-	TYPE I - W/ PSP
Hood length	-	192"
Hood Width	-	54"
Supply Plenum Type	-	ACPSP
Supply Plenum Width	-	18"
Supply Plenum Length	-	204"

Test Data Exhaust		
	Design	Actual
Filter Type	-	BAFFLE
Filter Size 1	-	16X20
Filter Qty 1	-	12
Filter AK factor size 1	-	2.08
Filter Total AK Area	-	24.96
Filter1 FPM	-	94
Filter2 FPM	-	81
Filter3 FPM	-	126
Filter4 FPM	-	134
Filter5 FPM	-	125
Filter6 FPM	-	108
Filter7 FPM	-	124
Filter8 FPM	-	149
Filter9 FPM	-	202
Filter10 FPM	-	167
Filter11 FPM	-	131
Filter12 FPM	-	123
Filter Ave FPM(corr)	-	130
CFM	3840	3245

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

Test Data Supply		
	Design	Actual
Total Area	-	25.5
Kv factor (Vel)	-	0.88
Num of Readings	-	16
Reading1 FPM	-	32
Reading2 FPM	-	59
Reading3 FPM	-	64
Reading4 FPM	-	91
Reading5 FPM	-	9
Reading6 FPM	-	64
Reading7 FPM	-	74
Reading8 FPM	-	73
Reading9 FPM	-	73
Reading10 FPM	-	88
Reading11 FPM	-	49
Reading12 FPM	-	22
Reading13 FPM	-	77
Reading14 FPM	-	45
Ave FPM(corr)	-	58
CFM	-	1302

Completed By: Kalen Kemp on 07/29/2025

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Project: Costa Vida (Overland Park, KS)

System/Unit: Kitchen Hood Type I



Asset: HD3

AREA: TO GO HOOD

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE-AIRE
Model Num	NA	NL
Job / Serial Num	-	NL
Type	-	TYPE I - ACPSP
Hood length	-	192
Hood Width	-	54"
Supply Plenum Type	-	ACPSP
Supply Plenum Width	-	18"
Supply Plenum Length	-	180"

Test Data Exhaust		
	Design	Actual
Filter Type	-	BAFFLE
Filter Size 1	-	20X20"
Filter Qty 1	-	2
Filter AK factor size 1	-	2.68
Filter Total AK Area	-	5.36
Filter1 FPM	-	117
Filter2 FPM	-	120
Filter3 FPM	-	
Filter4 FPM	-	
Filter5 FPM	-	
Filter6 FPM	-	
Filter7 FPM	-	
Filter8 FPM	-	
Filter9 FPM	-	
Filter10 FPM	-	
Filter11 FPM	-	
Filter12 FPM	-	
Filter Ave FPM(corr)	-	119
CFM	600	638

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

Test Data Supply		
	Design	Actual
Total Area	-	4.0
Kv factor (Vel)	-	0.87
Num of Readings	-	4
Reading1 FPM	-	81
Reading2 FPM	-	89
Reading3 FPM	-	79
Reading4 FPM	-	84
Reading5 FPM	-	
Reading6 FPM	-	
Reading7 FPM	-	
Reading8 FPM	-	
Reading9 FPM	-	
Reading10 FPM	-	
Reading11 FPM	-	
Reading12 FPM	-	
Reading13 FPM	-	
Reading14 FPM	-	
Ave FPM(corr)	-	83
CFM	-	289

Completed By: Kalen Kemp on 07/29/2025

Notes:
SUPPLY CFM IS LOW DUE TO AIR LEAKAGE IN THE DUCT (MAU)

Written By: Kalen Kemp on 07/29/2025

National TAB

Project: Costa Vida (Overland Park, KS)

System/Unit: Kitchen Hood Type II



Asset: HD(Type2)1

AREA:TORTILLA GRIDDLE

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE-AIRE
Model Num	NA	NL
Serial Num	-	NL
Type	-	TYPE II W/ PSP
Hood length	-	60"
Hood Width	-	60"

Test Data		
	Design	Actual
Exhaust CFM	750	688

Completed By: Kalen Kemp on 07/29/2025

Notes:
10" ROUND DUCT OPENING

Written By: Kalen Kemp on 07/29/2025