

Report By:

National TAB
1329 E. KEMPER ROAD
SUITE 4210
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Report: Inspections TAB Report
Function: Test, Adjust, & Balance
Date: 09/09/2024

PROJECT

**09-09-24 CHICK-FIL-A #01128 - ORLANDO,
FL (SOUTHCHASE PLAZA FSU) REINVEST**

13085 S ORANGE BLOSSOM TRL

ORLANDO, FL 32837

Client

Chick-fil-A (CFA)
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998

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Project Summary

The summary below provides a quick understanding of our scope of work and general testing procedures. Enclosed in the report is further detail about your building performance including recommendations, asset data, and pictures. Our focus is to work with the trades to remedy any issues or deficiencies during the actual field balancing and not after the balancing has occurred to achieve a positive environment and outcome. The level of success is determined by the availability of the trades, possible parts needed, or time constraints.

Inspections and Commissioning Light

The HVAC equipment, ductwork, and other building assets were inspected per Chick Fil A requirements. The results of this inspection is included in checklists within the report. Operational tests were also performed on the HVAC controls to ensure occupied and unoccupied sequence of operation.

RTU's (Roof Top Units) w/ Diffusers

Each of the RTU's were measured at their terminal devices or via traverse to establish a total flow for that unit. Each RTU was adjusted to within tolerance of the engineer's design flow. Each outlet was then adjusted to within tolerance of the design flow. Outside air was measured by reading the intake air opening with a velocity grid and multiplying by the free area. The outside air damper was adjusted until the airflow was within the design requirements. Any equipment that fell outside of that tolerance is noted throughout the report.

Kitchen Exhaust Hood & Associated Fans (Halton)

Each kitchen exhaust fan was measured by taking static pressure at the exhaust plenum and comparing to OEM performance data. The total flow of the exhaust was then adjusted to tolerance of the engineer's design flow.

General Exhaust Fans w/ Grilles

The general exhaust fans were measured by reading each air device with a flow hood. The total airflow for each fan is equivalent to the sum of these readings. Fan speed was then adjusted so that the airflow was within tolerance of design. Each terminal device was balanced to within tolerance of the design volume using the installed volume dampers. Any equipment that fell outside of this tolerance is noted throughout the report.

Final Building Tests

After completing the test and balance the final building pressure was measured. It was confirmed that the building pressure fell within acceptable tolerances and that the pressure measurement coincides with the actual and design net airflow. Any deviations from these standards are noted throughout the report. The hood capture was tested at the perimeter of the hood and the cook top level with the equipment heat on to ensure satisfactory hood capture and containment.

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(SOUTHCHASE PLAZA FSU) REINVEST



System/Unit: AHU/RTU

Asset: AC 1

AREA:DINNING B

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5615F04441
Model Num	LGH102H4	LGH102H4BM2Y
Type	AC	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14.25x22 7/8
Num Final Filter 1	-	4
Final Filter Size 1	-	20x25x2

Motor Data		
	Design	Actual
Motor MFG	-	INTERLINK
Frame	-	56HZ
Horsepower	2	2
Motor Rpm	-	1755
Phase	33	3
Rated Voltage	208 V	200-230
Rated Amperage	-	5.6-5.8

Drive Data	
	Actual
Motor Sheave Size	3.0"
Motor Bore Size	7/8"
Motor Sheave SetPt	2.5 TURNS OUT
Fan Sheave Size	5 3/4"
Fan Sheave Bore	1"
Belt CL Distance	21"
Num of Belts	1
Belt Size	AX54
Belt Alignment	GOOD

Test Data		
	Design	Actual
SF CFM	3000	3078
SF RPM	-	753
RA CFM	2220	2277
OA CFM	780	801
RL Voltage	-	209/210/211
RL Amperage	-	4.6/4.5/4.6
SF Rotation	-	CCW
RA Damper Position	-	80%
Min OA Damper Position	-	20%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	5.0

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.41"
Fan Suction SP	-	-0.77"
Fan Discharge SP	-	0.15"
Total ESP	0.75	0.56"
Fan Total SP	-	0.92"

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

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Notes:

Motor RPM (measured): 1745 / Diffusers adjusted to accommodate for RFI 11.

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(SOUTHCHASE PLAZA FSU) REINVEST

AHU/RTU



Diffuser Supply (GRD)

AC 1/DINNING B

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
AC 1-SGRD1	DINNING A	A	14	510	1	574	527	546	107.1
AC 1-SGRD2	DINNING A	A	14	510	1	583	545	546	107.1
AC 1-SGRD3	DINNING A	A	14	510	1	601	572	542	106.3
AC 1-SGRD4	DINNING A	A	14	510	1	619	589	500	98.0
AC 1-SGRD5	MEN	J	10	203	1	183	178	217	106.9
AC 1-SGRD6	WOMEN	J	10	186	1	171	179	184	98.9
AC 1-SGRD7	SERVING	A	14	567	1	425	413	543	95.8
Total				2996		3156	3003	3078	102.74%

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(SOUTHCHASE PLAZA FSU) REINVEST



System/Unit: AHU/RTU

Asset: AC 2

AREA:KITCHEN

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5624A01276
Model Num	LGH300S4B	LGT300S4MH1Y
Type	AC	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	3
OA Filter Size 1	-	12 7/8 x 23 1/8.
Num Final Filter 1	-	6
Final Filter Size 1	-	24x24x2

Motor Data		
	Design	Actual
Motor MFG	-	NEMA PREMIUM
Frame	-	215TZ
Horsepower	10	10
Motor Rpm	-	1765
Phase	3	3
Rated Voltage	208 V	208-230V
Rated Amperage	-	26.30-23.80

Drive Data	
	Actual
Motor Sheave Size	1VP60B
Motor Bore Size	1 7/16"
Motor Sheave SetPt	3.5
Fan Sheave Size	8.0"
Fan Sheave Bore	1 1/8"
Belt CL Distance	22.0"
Num of Belts	1
Belt Size	BX62
Belt Alignment	GOOD

Test Data		
	Design	Actual
SF CFM	8000	8124
SF RPM	-	1024
RA CFM	6500	6573
OA CFM	1500	1551
RL Voltage	-	203 VFD
RL Amperage	-	18.3 VFD
SF Rotation	-	CCW
RA Damper Position	-	57%
Min OA Damper Position	-	43%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	5.0

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.65"
Fan Suction SP	-	-1.14"
Fan Discharge SP	-	0.54"
Total ESP	1.0	1.19"
Fan Total SP	-	1.68"

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

Completed By: Stephen Tassinaro on 06/21/2024

Notes:
Motor RPM: 1775

Written By: Stephen Tassinaro on 06/21/2024

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(SOUTHCHASE PLAZA FSU) REINVEST

AHU/RTU



Diffuser Supply (GRD)

AC 2/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
AC 2-SGRD2	KITCHEN	A	14	770	1	1197	1109	819	106.4
AC 2-SGRD3	KITCHEN	A	16	990	1	1205	921	995	100.5
AC 2-SGRD4	KITCHEN	A	14	770	1	838	762	733	95.2
AC 2-SGRD5	KITCHEN	A	14	770	1	984	891	827	107.4
AC 2-SGRD6	KITCHEN	A	16	880	1	173	992	801	91.0
AC 2-SGRD7	KITCHEN	A	14	770	1	866	720	811	105.3
AC 2-SGRD8	KITCHEN	A	14	770	1	762	606	826	107.3
AC 2-SGRD9	KITCHEN	A	14	770	1	1073	992	753	97.8
AC 2-SGRD10	KITCHEN	A	14	770	1	628	595	780	101.3
AC 2-SGRD11	KITCHEN	A	14	770	1	1076	983	779	101.2
Total				8030		8802	8571	8124	101.17%

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System/Unit: AHU/RTU

Asset: AC 3

AREA:DRIVE THRU SERVING

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5615F04363
Model Num	LGH150S4	LGH150S4BH4Y
Type	AC	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14.25x22.875
Num Final Filter 1	-	4
Final Filter Size 1	-	20x25x2

Motor Data		
	Design	Actual
Motor MFG	-	NEMA PREMIUM
Frame	-	184TZ
Horsepower	5.0	5.0
Motor Rpm	-	1765
Phase	3	3
Rated Voltage	208 V	208
Rated Amperage	-	13.0

Drive Data	
	Actual
Motor Sheave Size	VP50BB
Motor Bore Size	1 1/8"
Motor Sheave SetPt	4.5 TURNS OUT
Fan Sheave Size	7 1/4"
Fan Sheave Bore	1.0"
Belt CL Distance	21 7/8"
Num of Belts	1
Belt Size	B59
Belt Alignment	HORIZONTAL

Test Data		
	Design	Actual
SF CFM	4700	4613
SF RPM	-	950
RA CFM	3550	3476
OA CFM	1150	1137
RL Voltage	-	210/211/212
RL Amperage	-	8.3/8.0/8.9
SF Rotation	-	CORRECT
RA Damper Position	-	59%
Min OA Damper Position	-	41%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	5.0

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.27"
Fan Suction SP	-	-0.83"
Fan Discharge SP	-	0.26"
Total ESP	0.75	0.53"
Fan Total SP	-	1.09"

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

Completed By: Stephen Tassinaro on 06/21/2024

Notes:
Motor RPM (measured): 1765

Written By: Stephen Tassinaro on 04/25/2024

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(SOUTHCHASE PLAZA FSU) REINVEST



AHU/RTU

Diffuser Supply (GRD)

AC 3/DRIVE THRU SERVING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
AC 3-SGRD1	ENTRY A	C	10	250	1	289	237	254	101.6
AC 3-SGRD2	ORDER	A	14	610	1	553	572	556	91.1
AC 3-SGRD3	ORDER	A	10	290	1	332	315	294	101.4
AC 3-SGRD4	SERVING	A	10	240	1	247	277	238	99.2
AC 3-SGRD5	SERVING	A	10	240	1	324	261	242	100.8
AC 3-SGRD6	DRIVE THRU	A	12	400	1	528	580	416	104.0
AC 3-SGRD7	DRIVE THRU	A	10	240	1	336	245	244	101.7
AC 3-SGRD8	DRIVE THRU	A	10	290	1	258	300	281	96.9
AC 3-SGRD9	DRIVE THRU	A	12	400	1	568	443	391	97.8
AC 3-SGRD10	OFFICE	H	12	400	1	437	473	401	100.3
AC 3-SGRD11	ENTRY B	C	10	250	1	296	297	265	106.0
AC 3-SGRD12	DINNING B	A	10	240	1	210	236	234	97.5
AC 3-SGRD13	DINNING B	A	10	240	1	255	285	235	97.9
AC 3-SGRD14	DINNING B	A	14	610	1	584	608	562	92.1
Total				4700		5217	5129	4613	98.15%

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System/Unit: AHU/RTU

Asset: AC 4

AREA:DINNING A

Unit Data		
	Design	Actual
MFG	LENNOX	LENNOX
Serial Num	-	5624A01982
Model Num	LGH060H4	LGT060H4EX1Y
Type	AC	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	29X14
Num Final Filter 1	-	4
Final Filter Size 1	-	20X20X2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	1	1.0
Motor Rpm	-	NL
Phase	3	1
Rated Voltage	208 V	208/230
Rated Amperage	-	7.4

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
Belt Alignment	DD

Test Data		
	Design	Actual
SF CFM	1800	1827
SF RPM	-	59% MSAV
RA CFM	1380	1399
OA CFM	420	428
RL Voltage	-	212
RL Amperage	-	4.2
SF Rotation	-	CCW
RA Damper Position	-	86%
Min OA Damper Position	-	14%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	5.0

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.27"
Fan Suction SP	-	-0.54"
Fan Discharge SP	-	0.58"
Total ESP	0.65	0.85"
Fan Total SP	-	1.12"

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

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Project:09-09-24 CHICK-FIL-A #01128 - ORLANDO, FL
(SOUTHCHASE PLAZA FSU) REINVEST

AHU/RTU



Diffuser Supply (GRD)

AC 4/DINNING A

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
AC 4-SGRD1	PLAY AREA	A	12	450	1	394	415	453	100.7
AC 4-SGRD2	PLAY AREA	A	12	450	1	449	473	461	102.4
AC 4-SGRD3	PLAY AREA	A	12	450	1	429	457	429	95.3
AC 4-SGRD4	PLAY AREA	A	12	450	1	355	369	484	107.6
Total				1800		1627	1714	1827	101.5%

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(SOUTHCHASE PLAZA FSU) REINVEST



System/Unit: FAN - Exhaust

Asset: EF 1

AREA:

Unit Data		
	Design	Actual
MFG	LOREN COOK	LOREN COOK
Model Num	165V5B	165VH5B
Serial Num	-	050SK87679-00/0000701
Type	BELT	BELT
Configuration	UTILITY	UTILITY

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	NL
Horsepower	1/2	1/2
Motor Rpm	-	1725
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	7.9
Service Factor	-	1.25

Drive Data	
	Actual
Motor Sheave Size	3.0"
Motor Bore Size	0.5"
Motor Sheave SetPt	0.5 TURNS OUT
Fan Sheave Size	AK41
Fan Sheave Bore	3/4"
Belt CL Distance	5.25"
Num of Belts	1
Belt Size	A26

Test Data		
	Design	Actual
CFM	1462	1418
Fan RPM	-	1302
Fan Rotation	-	CCW
Motor RPM	-	1724
RL Voltage	-	123
RL Amperage	-	7.9
Suction ESP	-	-0.79"
Discharge ESP	-	ATM
Total ESP	0.65	0.79"

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Project: 09-09-24 CHICK-FIL-A #01128 - ORLANDO, FL
(SOUTHCHASE PLAZA FSU) REINVEST

System/Unit: FAN - Exhaust



Asset: EF 2

AREA:

Unit Data		
	Design	Actual
MFG	LOREN COOK	LOREN COOK
Model Num	150VH4B	150VH4B
Serial Num	-	050SK87679-00/0002301
Type	BELT	BELT
Configuration	UTILITY	UTILITY

Motor Data		
	Design	Actual
Motor MFG	-	US MOTOR
Frame	-	NL
Horsepower	1/3	1/3
Motor Rpm	-	1725
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	5.8
Service Factor	-	1.25

Drive Data	
	Actual
Motor Sheave Size	3.0"
Motor Bore Size	1/2"
Motor Sheave SetPt	1/2
Fan Sheave Size	3 7/8"
Fan Sheave Bore	3/4"
Belt CL Distance	5.5"
Num of Belts	1
Belt Size	A26

Test Data		
	Design	Actual
CFM	701	682
Fan RPM	-	1326
Fan Rotation	-	CORRECT
Motor RPM	-	1741
RL Voltage	-	123 V
RL Amperage	-	5.7 A
Suction ESP	-	-0.67"
Discharge ESP	-	ATM
Total ESP	0.75	0.67"

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System/Unit: FAN - Exhaust



Asset: EF 3

AREA:

Unit Data		
	Design	Actual
MFG	LOREN COOK	LOREN COOK
Model Num	ACED-90C15DH	100C15DH 100 ACEH
Serial Num	-	050PL11736- 00/0000701
Type	DD	CENTRIFUGAL
Configuration	DOWNBLAST	DOWNBLAST

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	48Y
Horsepower	1/8	1/8
Motor Rpm	-	1600
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	1.7
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	530	504
Fan RPM	-	DD
Fan Rotation	-	CORRECT
Motor RPM	-	DD
System SetPt	-	SPEED CONTROLLER
RL Voltage	-	122
Total ESP	0.375	0.335"
Fan Inlet SP	-	-0.335"
Fan Discharge SP	-	ATM

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FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF 3/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EF 3-EGRD1	WOMEN	K	10	280	1	132	166	267	95.4
EF 3-EGRD2	MEN	K	10	250	1	146	189	237	94.8
Total				530		278	355	504	95.09%

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System/Unit: FAN - Exhaust

Asset: EF 4

AREA:

Unit Data		
	Design	Actual
MFG	LOREN COOK	LOREN COOK
Model Num	150VH4B	150VH4B
Serial Num	-	050SK87679-00/0002302
Type	BELT	BELT
Configuration	UTILITY	UTILITY

Motor Data		
	Design	Actual
Motor MFG	-	US MOTORS
Frame	-	NL
Horsepower	1/3	1/3
Motor Rpm	-	1725
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	5.8
Service Factor	-	1.25

Drive Data	
	Actual
Motor Sheave Size	3.0"
Motor Bore Size	0.5"
Motor Sheave SetPt	3 TURNS OUT
Fan Sheave Size	3 7/8"
Fan Sheave Bore	0.75"
Belt CL Distance	5.5"
Num of Belts	1
Belt Size	A26

Test Data		
	Design	Actual
CFM	701	695
Fan RPM	-	1225
Fan Rotation	-	CCW
Motor RPM	-	1748
RL Voltage	-	123
RL Amperage	-	5.3
Suction ESP	-	-0.60"
Discharge ESP	-	ATM
Total ESP	0.75	0.60"

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(SOUTHCHASE PLAZA FSU) REINVEST



System/Unit: Kitchen Hood Type I

Asset: HD1

AREA:

Unit Data		
	Design	Actual
MFG	HALTON	HALTON
Model Num	KVL-2	KVL-2-IC
Job / Serial Num	-	121004-733
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	130"	130"
Hood Width	37"	37"

Test Data Supply		
	Design	Actual
TAB SP	0.30"	0.30"

Test Data Exhaust		
	Design	Actual
Filter Size 1	S.S FILTERS (KSA)	S.S FILTERS (KSA)
Filter Size 2	1/2 S.S FILTERS (KSA)	1/2 S.S FILTERS (KSA)
Filter Qty 1	6	6
Filter Qty 2	1	1
TAB SP	0.119"	0.112"
CFM	1462	1418

Cooking Equipment	
	Actual
Item 1	PRESSURE FRYER
Item 2	GRILL

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Project: 09-09-24 CHICK-FIL-A #01128 - ORLANDO, FL
(SOUTHCHASE PLAZA FSU) REINVEST



System/Unit: Kitchen Hood Type I

Asset: HD2

AREA:

Unit Data		
	Design	Actual
MFG	HALTON	HALTON
Model Num	KVL-C	KVL-C-IC
Job / Serial Num	-	121004-775
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	42"	42"
Hood Width	34"	34"

Test Data Supply		
	Design	Actual
TAB SP	0.29"	0.22"

Test Data Exhaust		
	Design	Actual
Filter Size 1	S.S FILTERS (KSA)	S.S FILTERS (KSA)
Filter Qty 1	2	2
TAB SP	0.295"	0.279"
CFM	701	682

Cooking Equipment	
	Actual
Item 1	FRYER
Item 2	FRYER

Completed By: Stephen Tassinaro on 04/25/2024

Notes:

CAPTURE JET CONTROLLER MAXIMIZED. SERVICE WILL BE NEEDED IF INCREASED AIRFLOW IS REQUIRED.

Written By: Stephen Tassinaro on 04/25/2024

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Project: 09-09-24 CHICK-FIL-A #01128 - ORLANDO, FL
(SOUTHCHASE PLAZA FSU) REINVEST



System/Unit: Kitchen Hood Type I

Asset: HD3

AREA:

Unit Data		
	Design	Actual
MFG	HALTON	HALTON
Model Num	KVL-C	KVL-C-IC
Job / Serial Num	-	121004-826
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	42"	42"
Hood Width	34"	34"

Test Data Supply		
	Design	Actual
TAB SP	0.29"	0.23"

Test Data Exhaust		
	Design	Actual
Filter Size 1	S.S FILTERS (KSA)	S.S FILTERS (KSA)
Filter Qty 1	2	2
TAB SP	0.295"	0.290"
CFM	701	695

Cooking Equipment	
	Actual
Item 1	FRYER
Item 2	FRYER

Completed By: Stephen Tassinaro on 04/25/2024

Notes:

CAPTURE JET CONTROLLER MAXIMIZED. SERVICE WILL BE NEEDED IF INCREASED AIRFLOW IS REQUIRED.

Written By: Stephen Tassinaro on 04/25/2024

