

Report By:

National TAB
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Report: Certified TAB Report
Function: Test, Adjust, & Balance
Date: 11/19/2025
Completed By: National TAB

PROJECT

**11-17-25 CHICK-FIL-A #05795 KANSAS CITY,
MO (169 & BARRY RD FSU) NEW STORE**

300 NW BARRY RD.

KANSAS CITY , MO 64155

Client

CHICK-FIL-A
5200 BUFFINGTON ROAD
ATLANTA, GA 30349-2998

National TAB

Project: 11-17-25 CHICK-FIL-A #05795 KANSAS CITY, MO (169 & BARRY RD FSU) NEW STORE

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11-17-25 CHICK-FIL-A #05795 KANSAS CITY, MO (169 & BARRY RD FSU) NEW STORE

PROJECT TEAM MEMBERS

Owner/Client:	CHICK-FIL-A 5200 BUFFINGTON ROAD ATLANTA, GA, 30349-2998
Architect/Engineer/Consultant:	Kurzynske & Associates 2900 Lebanon Pike Ste 201 Nashville, TN, 37214
General Contractor:	J.E. Foster Building Company 108 Green Park Industrial Ct St. Louis, MO, 63123
Mechanical Contractor:	Metal Craft Mechanical 5138 Merriam Dr. Merriam, KS, 66203
Test, Adjust, & Balance:	National TAB Intelligence - Kansas City 1126 Swift St North Kansas City, MO, 64116



CERTIFICATION



PROJECT: CHICK-FIL-A #05795 KANSAS CITY, MO (169 & BARRY RD FSU) NEW STORE

The data presented in this report is a record of system measurements and final adjustments that have been obtained in accordance with the current edition of the NEBB Procedural Standard for Testing, Adjusting and Balancing of Environmental Systems. The measurements shown, and the information given, in this report are certified to be accurate and complete, at the time and date information was gathered. Any variances from design quantities, which exceed NEBB tolerances, are noted in the TAB report project summary.

NEBB TAB FIRM: National TAB - Kansas City

REGISTRATION NO: 3768

CERTIFIED BY: Will Turnbough

DATE: 11/25/2025

Submitted and Certified by:

NEBB TAB FIRM: National TAB - Kansas City

TAB PROFESSIONAL: Will Turnbough

REGISTRATION NO: CP-24289

CERTIFICATION EXP: 12/31/2025





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Project: 11-17-25 CHICK-FIL-A #05795 KANSAS CITY, MO
(169 & BARRY RD FSU) NEW STORE
Function: Test, Adjust, & Balance

Project Summary

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.

Remarks:

EF-1 airflow is 1355 CFM out of design of 1913 CFM with the motor operating near the FLA rating. The fan inlet cone is damaged and appears to be impacting airflow. Halton is sending a rep to evaluate and repair the fan.

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Project: 11-17-25 CHICK-FIL-A #05795 KANSAS CITY, MO
(169 & BARRY RD FSU) NEW STORE



System/Unit: AHU/RTU

Asset: AC1

AREA: KITCHEN

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	251711240D
Model Num	YSK300A3S	YSK300A3S
Type	AC	AC
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	16.75X65"
Num Final Filter 1	-	8
Final Filter Size 1	-	20X24X2"
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	Actual
Motor MFG	-	EBM PAPST
Frame	-	NL
Horsepower	3.0	3.0
Motor Rpm	-	1790
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	8.8

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	8125	8554
SF RPM	-	1424
RA CFM	6375	6815
OA CFM	1750	1739
RL Voltage	-	212
RL Amperage	-	4.62
SF Rotation	-	COUNTERCLOCKWISE
SF System SetPt	-	77%
RA Damper Position	-	3.5" OPEN
Min OA Damper Position	-	0.375" OPEN (29%)
Min OA Damper Type	-	ECON
OA Enthalpy Setpt	-	25 BTU/LB

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.77"
Fan Suction SP	-	-1.26"
Fan Discharge SP	-	0.43"
Total ESP	0.80"	1.20"
Fan Total SP	-	1.69"

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

Completed By: Kalen Kemp on 11/19/2025

Unit Data - PHOTO LOG



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(169 & BARRY RD FSU) NEW STORE



AHU/RTU

Diffuser Supply (GRD)

AC1/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	KITCHEN	A	16"	810	1.0	1022	932	811	100.1
SGRD2	KITCHEN	A	16"	810	1.0	910	931	870	107.4
SGRD3	KITCHEN	A	16"	810	1.0	718	867	860	106.2
SGRD4	KITCHEN	A	16"	810	1.0	807	822	865	106.8
SGRD5	KITCHEN	A	16"	815	1.0	649	820	885	108.6
SGRD6	KITCHEN	A	16"	815	1.0	732	781	826	101.3
SGRD7	KITCHEN	A	16"	815	1.0	724	811	864	106.0
SGRD8	KITCHEN	A	16"	815	1.0	992	878	862	105.8
SGRD9	KITCHEN	A	16"	815	1.0	916	891	832	102.1
SGRD10	KITCHEN	A	16"	810	1.0	915	823	879	108.5
Total				8125		8385	8556	8554	105.28%

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Project: 11-17-25 CHICK-FIL-A #05795 KANSAS CITY, MO
(169 & BARRY RD FSU) NEW STORE



System/Unit: AHU/RTU

Asset: AC2

AREA: MEAL FULFILLMENT AREA

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	251911431
Model Num	YSK150A3S	YSK150A3S
Type	AC	AC
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	23.875X37.5"
Num Final Filter 1	-	3
Final Filter Size 1	-	18X24X2"
Num Final Filter 2	-	3
Final Filter Size 2	-	16X24X2"

Motor Data		
	Design	Actual
Motor MFG	-	EBM PAPST
Frame	-	NA
Horsepower	4.6	5.0
Motor Rpm	-	NA
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	11.0

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	4375	4494
SF RPM	-	1416
RA CFM	3300	3375
OA CFM	1075	1119
RL Voltage	-	213
RL Amperage	-	4.58
SF Rotation	-	COUNTERCLOCKWISE
SF System SetPt	-	73%
RA Damper Position	-	3"
Min OA Damper Position	-	0.5" OPEN (32%)
Min OA Damper Type	-	ECON
OA Enthalpy Setpt	-	25 BTU/LB

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.85"
Fan Suction SP	-	-1.20"
Fan Discharge SP	-	0.35"
Total ESP	0.80"	1.20"
Fan Total SP	-	1.55"

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

Completed By: Kalen Kemp on 11/18/2025

Notes:
-MOTOR DATA RETRIEVED FROM UNIT TAG
-READINGS FOR R2-2 TAKEN WITH VELGRID.

Written By: Kalen Kemp on 11/18/2025

Unit Data - PHOTO LOG



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Project:11-17-25 CHICK-FIL-A #05795 KANSAS CITY, MO
(169 & BARRY RD FSU) NEW STORE



AHU/RTU

Diffuser Supply (GRD)

AC2/MEAL FULFILLMENT AREA

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	MEAL FULFILLMENT AREA	A	16"	730	1.0	428	599	764	104.7
SGRD2	MEAL FULFILLMENT AREA	A	16"	730	1.0	436	610	786	107.7
SGRD3	MEAL FULFILLMENT AREA	A	16"	730	1.0	749	1049	680	93.2
SGRD4	MEAL FULFILLMENT AREA	A	16"	730	1.0	624	874	790	108.2
SGRD5	MEAL FULFILLMENT AREA	A	16"	730	1.0	592	830	721	98.8
SGRD6	MEAL FULFILLMENT AREA	A	16"	725	1.0	375	525	753	103.9
Total				4375		3204	4487	4494	102.72%

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Project: 11-17-25 CHICK-FIL-A #05795 KANSAS CITY, MO
(169 & BARRY RD FSU) NEW STORE



System/Unit: AHU/RTU

Asset: AC3

AREA:DINING

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	251710528D
Model Num	YSK180A3S	YSK180A3S
Type	AC	AC
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	16.625X55.75"
Num Final Filter 1	-	8
Final Filter Size 1	-	20X24X2"
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	Actual
Motor MFG	-	EBM PAPST
Frame	-	IP20
Horsepower	3.0	3.0
Motor Rpm	-	1790
Phase	3	3
Rated Voltage	208	200-240
Rated Amperage	-	8.8

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	5250	5291
SF RPM	-	1055
RA CFM	3975	3977
OA CFM	1275	1314
RL Voltage	-	212
RL Amperage	-	2.05
SF Rotation	-	COUNTERCLOCKWISE
SF System SetPt	-	57%
RA Damper Position	-	3.5" OPEN
Min OA Damper Position	-	0.5" OPEN (32%)
Min OA Damper Type	-	ECON
OA Enthalpy Setpt	-	25 BTU/LB

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.41"
Fan Suction SP	-	-0.68"
Fan Discharge SP	-	0.41"
Total ESP	0.80"	0.82"
Fan Total SP	-	1.09"

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

Completed By: Kalen Kemp on 11/19/2025

Unit Data - PHOTO LOG



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AHU/RTU

Diffuser Supply (GRD)

AC3/DINING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	ENTRANCE	C	10"	300	1.0	319	287	295	98.3
SGRD2	DINING	A	10"	350	1.0	253	249	343	98.0
SGRD3	DINING	A	10"	350	1.0	225	233	318	90.9
SGRD4	PLAY AREA	E	16X10	340	1.0	378	348	328	96.5
SGRD5	PLAY AREA	E	16X10	340	1.0	623	372	328	96.5
SGRD6	DINING	A	10"	350	1.0	511	491	354	101.1
SGRD7	DINING	A	10"	350	1.0	526	351	378	108.0
SGRD8	DINING	A	10"	350	1.0	454	434	366	104.6
SGRD9	DINING	D	8"	250	1.0	205	195	228	91.2
SGRD10	DINING	D	8"	250	1.0	231	218	257	102.8
SGRD11	DINING	D	10"	350	1.0	391	372	361	103.1
SGRD12	SERVING	A	10"	340	1.0	346	344	363	106.8
SGRD13	SERVING	D	8"	150	1.0	143	140	147	98.0
SGRD14	SERVING	D	8"	150	1.0	144	149	159	106.0
SGRD15	SERVING	A	10"	340	1.0	329	329	343	100.9
SGRD16	HALLWAY	A	10"	340	1.0	325	320	344	101.2
SGRD17	HAL.LWAY	A	8"	115	1.0	153	143	124	107.8
SGRD18	MENS RR	J	8"	100	1.0	213	219	109	109.0
SGRD19	WOMENS RR	J	8"	135	1.0	118	112	146	108.1
Total				5250		5887	5306	5291	100.78%

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Project: 11-17-25 CHICK-FIL-A #05795 KANSAS CITY, MO
(169 & BARRY RD FSU) NEW STORE



System/Unit: AHU/RTU

Asset: AC4

AREA:BOH

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	252011362L
Model Num	YHK060A3S	YHK060A3S
Type	AC	AC
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	24X37.5"
Num Final Filter 1	-	3
Final Filter Size 1	-	16X24X2"
Num Final Filter 2	-	2
Final Filter Size 2	-	18X24X2"

Motor Data		
	Design	Actual
Motor MFG	-	EBM PAPST
Frame	-	NA
Horsepower	3.0	3.0
Motor Rpm	-	NA
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	8.8

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	1750	1806
SF RPM	-	NA
RA CFM	1325	1381
OA CFM	425	425
RL Voltage	-	211
RL Amperage	-	1.01
SF Rotation	-	COUNTERCLOCKWISE
SF System SetPt	-	40%
RA Damper Position	-	3.875" OPEN
Min OA Damper Position	-	0.25" OPEN (25%)
Min OA Damper Type	-	ECON
OA Enthalpy Setpt	-	25 BTU/LB

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.19"
Fan Suction SP	-	-0.33"
Fan Discharge SP	-	0.22"
Total ESP	0.80"	0.41"
Fan Total SP	-	0.55"

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

Completed By: Kalen Kemp on 11/18/2025

Unit Data - PHOTO LOG



11/18/2025

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Project: 11-17-25 CHICK-FIL-A #05795 KANSAS CITY, MO
(169 & BARRY RD FSU) NEW STORE



AHU/RTU

Diffuser Supply (GRD)

AC4/BOH

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	SERVICE	A	10"	300	1.0	485	319	328	109.3
SGRD2	SERVICE	A	10"	300	1.0	486	322	319	106.3
SGRD3	OFFICE	B	10"	300	1.0	333	256	324	108.0
SGRD4	FOH	A	10"	325	1.0	471	319	319	98.2
SGRD5	FOH	A	10"	325	1.0	476	315	307	94.5
SGRD6	FOH	A	6"	50	1.0	120	87	53	106.0
SGRD7	RISER	A	8"	150	1.0	284	183	156	104.0
Total				1750		2655	1801	1806	103.2%

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Project: 11-17-25 CHICK-FIL-A #05795 KANSAS CITY, MO
(169 & BARRY RD FSU) NEW STORE



System/Unit: FAN - Exhaust

Asset: EF1

AREA:KITCHEN HD 1

Unit Data		
	Design	Actual
MFG	HALTON	HALTON
Model Num	KEFB-14-CFA	KEFB-14-CFA
Serial Num	-	126431-268
Type	UPBLAST	UTILITY
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56
Horsepower	0.75	0.75
Motor Rpm	1331	1750
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	6.80
Service Factor	-	1.25

Drive Data	
	Actual
Motor Sheave Size	5.25"
Motor Bore Size	1.25"
Motor Sheave SetPt	3 TURNS OUT
Fan Sheave Size	5.5"
Fan Sheave Bore	1"
Belt CL Distance	8"
Num of Belts	1
Belt Size	BX39

Test Data		
	Design	Actual
CFM	1913	1355
Fan RPM	1747	1655
Fan Rotation	-	CLOCKWISE
Motor RPM	-	1750
RL Voltage	-	123
RL Amperage	-	6.46
Suction ESP	-	0.35"
Discharge ESP	-	0.45"
Total ESP	0.75"	0.80"

Notes:
Fan speed maximized. Inlet cone is damaged. Halton is sending a technician to evaluate and repair.

Written By: Will Turnbough on 11/25/2025

Unit Data - PHOTO LOG



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System/Unit: FAN - Exhaust

Asset: EF2

AREA:KITCHEN HD 2&3

Unit Data		
	Design	Actual
MFG	HALTON	HALTON
Model Num	KEFB-14-CFA	KEFB-14-CFA
Serial Num	-	126431-295
Type	UPBLAST	UTILITY
Configuration	VERTICAL	HORIZONTAL

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56
Horsepower	0.75	0.75
Motor Rpm	1199	1750
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	6.80
Service Factor	-	1.25

Drive Data	
	Actual
Motor Sheave Size	5.5"
Motor Bore Size	1.25"
Motor Sheave SetPt	5 TURNS OUT
Fan Sheave Size	6.25"
Fan Sheave Bore	1.125"
Belt CL Distance	8.125"
Num of Belts	1
Belt Size	BX40

Test Data		
	Design	Actual
CFM	1402	1352
Fan RPM	1522	1333
Fan Rotation	-	CLOCKWISE
Motor RPM	-	1771
RL Voltage	-	123
RL Amperage	-	4.97
Suction ESP	-	-0.42"
Discharge ESP	-	0.34"
Total ESP	0.95"	0.76"

Completed By: Kalen Kemp on 11/19/2025

Unit Data - PHOTO LOG



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Project: 11-17-25 CHICK-FIL-A #05795 KANSAS CITY, MO
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System/Unit: FAN - Exhaust

Asset: EF3

AREA:RESTROOMS

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XRED-095-VG	XRED-095-VG
Serial Num	-	27068765
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	VARI-GREEN
Frame	-	NL
Horsepower	0.125	0.17
Motor Rpm	1550	1750
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	2.2
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	300	323
Fan RPM	-	NA
Fan Rotation	-	CLOCKWISE
Motor RPM	-	NA
System SetPt	-	~5.0 VDC
RL Voltage	-	122
RL Amperage	-	0.50
Total ESP	0.375"	0.19"
Fan Inlet SP	-	-0.19"
Fan Discharge SP	-	ATM

Completed By: Kalen Kemp on 11/19/2025

Unit Data - PHOTO LOG



11/19/2025

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Project:11-17-25 CHICK-FIL-A #05795 KANSAS CITY, MO
(169 & BARRY RD FSU) NEW STORE



FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF3/RESTROOMS

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	MENS RR	K	8"	150	1.0	355	119	160	106.7
EGRD2	WOMENS RR	K	8"	150	1.0	368	124	163	108.7
Total				300		723	243	323	107.67%

Completed By: Kalen Kemp on 11/19/2025

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Project: 11-17-25 CHICK-FIL-A #05795 KANSAS CITY, MO
(169 & BARRY RD FSU) NEW STORE



System/Unit: Kitchen Hood Type I

Asset: HD2

AREA: KITCHEN

Unit Data		
	Design	Actual
MFG	HALTON	HALTON
Model Num	KVL-C-IC	KVL-C-IC
Job / Serial Num	-	126431-135
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	42"	42"
Hood Width	34"	34"

Test Data Supply		
	Design	Actual
TAB SP	0.29"	0.2909"

Test Data Exhaust		
	Design	Actual
Filter Size 1	SS KSA	SS KSA
Filter Qty 1	2	2
TAB SP	0.295"	0.28"
CFM	701	664

Cooking Equipment	
	Actual
Item 1	FRYER (2)

Completed By: Kalen Kemp on 11/19/2025

Unit Data - PHOTO LOG



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Project: 11-17-25 CHICK-FIL-A #05795 KANSAS CITY, MO
(169 & BARRY RD FSU) NEW STORE



System/Unit: Kitchen Hood Type I

Asset: HD3

AREA:KITCHEN

Unit Data		
	Design	Actual
MFG	HALTON	HALTON
Model Num	KVL-C-IC	KVL-C-IC
Job / Serial Num	-	126431-183
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	42"	42"
Hood Width	34"	34"

Test Data Supply		
	Design	Actual
TAB SP	0.29"	0.2889"

Test Data Exhaust		
	Design	Actual
Filter Size 1	SS KSA	SS KSA
Filter Qty 1	2	2
TAB SP	0.295"	0.29"
CFM	701	688

Cooking Equipment	
	Actual
Item 1	FRYER (2)

Completed By: Kalen Kemp on 11/19/2025

Unit Data - PHOTO LOG



11/19/2025

National TAB

Project: 11-17-25 CHICK-FIL-A #05795 KANSAS CITY, MO
(169 & BARRY RD FSU) NEW STORE



System/Unit: Kitchen Hood Type I

Asset: HD-L1

AREA:KITCHEN

Unit Data		
	Design	Actual
MFG	HALTON	HALTON
Model Num	KVL-2-IC	KVL-2-IC
Job / Serial Num	-	126431-052
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	63"	63"
Hood Width	37"	37"

Test Data Supply		
	Design	Actual
TAB SP	0.30"	0.3004"

Test Data Exhaust		
	Design	Actual
Filter Size 1	SS KSA	SS KSA
Filter Qty 1	3	3
TAB SP	0.129"	0.097"
CFM	709	535

Cooking Equipment	
	Actual
Item 1	PRESSURE FRYER (2)
Item 2	PRESSURE FRYER

Unit Data - PHOTO LOG



11/19/2025

National TAB

Project: 11-17-25 CHICK-FIL-A #05795 KANSAS CITY, MO
(169 & BARRY RD FSU) NEW STORE



System/Unit: Kitchen Hood Type I

Asset: HD-R1

AREA:KITCHEN

Unit Data		
	Design	Actual
MFG	HALTON	HALTON
Model Num	KVL-2-IC	KVL-2-IC
Job / Serial Num	-	126431-087
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	107"	107"
Hood Width	37"	37"

Test Data Supply		
	Design	Actual
TAB SP	0.30"	0.3017"

Test Data Exhaust		
	Design	Actual
Filter Size 1	SS KSA	SS KSA
Filter Qty 1	5	5
TAB SP	0.128"	0.087"
CFM	1204	870

Cooking Equipment	
	Actual
Item 1	PRESSURE FRYER (4)
Item 2	GRILL PRESS (2)

Unit Data - PHOTO LOG



11/19/2025

Abbreviation List

A = Area (ft ²)	S.F. = Service Factor
AHU = Air Handling Unit	SF = Supply Fan
A _k = Effective Area	SP = Static Pressure
BHP = Brake Horsepower (IP) HP	SR = Supply Register
Btu = British Thermal Unit	T = Temperature
Btu/h = Btuh = BTUH = BTU/Hour	T _{ma} = Mixed Air Temperature
CL = Center Distance (used in belt formula)	T _{oa} = Outside Air Temperature
CD = Ceiling Diffuser	T _{ra} = Return Air Temperature
CF = Correction Factor	H = Head (in wc, ft wc, psi)
CFM = Volumetric Flow: Cubic Feet Per Minute	h = Enthalpy
CO ₂ = Carbon Dioxide	HP = Horsepower
CO = Carbon Monoxide	hr = Hour
C _v = Flow Constant	K _v = Flow constant (SI)
d = Diameter (in.) IP	kW = Kilowatt = 1000 Watts
Δ = Difference or Change (Final - Initial)	LAT = Leaving Air Temperature
DB = Dry Bulb	lb = Pounds
EA = Exhaust Air	LWT = Leaving Water Temperature
EAT = Entering Air Temperature	ma = Mixed Air
EF = Exhaust Fan	MIN = Minimum
Eff = Efficiency	MAX = Maximum
EG = Exhaust Grille	N/A = Not Applicable
ESP = External Static Pressure	NA = No Access
EWT = Entering Water Temperature	NL = Not Listed
°F = Degrees Fahrenheit, °F	NPSHA = Net Positive Suction Head Available
FPB = Fan Powered Box	NS = Not Specified
FLA = Full Load Amps	OA = Outside Air
fpm = Feet per Minute (fpm)	OAT = Outside Air Temperature
ft = Foot	PD = Sheave Pitch Diameter
gal = Gallons	P.D. = Pressure Drop
GPM = Gallons Per Minute (GPM)	PF = Power Factor
h = Enthalpy (BTU/lb dry air)	SG = Supply Grille
P = Pressure	SR = Supply Register
ppm = parts per million	TP = Total Pressure
psi = Pounds Per Square Inch	T _{ra} = Return Air Temperature
psid = PSI Differential	TS = Tip Speed (fpm) IP, (m/s) SI
r = Radius (in)	TSP = Total Static Pressure
% _{ra} = % of Return Air	V = Velocity
RA = Return Air	VAV = Variable Air Volume
RAT = Return Air Temperature	VD = Volume Damper
RF = Return Fan	VFD = Variable Frequency Drive
RG = Return Grille	W = Watt
RH = Relative Humidity	WB = Wet Bulb
RPM = Revolutions Per Minute	wg = wc = water gauge = water column
RTU = Roof Top Unit	WHP = Water Horsepower (IP)
SA = Supply Air	ω = Humidity Ratio



National TAB

Testing, Adjusting, and Balancing Equipment



Function		Range	Minimum Accuracy	Instrument Information	Calibration Date	Date Due
AIR	AIR PRESSURE	0 in wg to 10 in wg	2% +/- 0.001 in wg	Evergreen S-PVF-1 24D-00281	3/14/2025	3/14/2026
	AIR VELOCITY INSTRUMENT	50 fpm to 3900 fpm	+/- 5 % +/- 7 fpm	Evergreen S-PVF-1 24D-00281	3/14/2025	3/14/2026
	DIRECT HOOD READING	100 cfm to 2000 cfm	+/- 5 % +/- 7 cfm	Evergreen S-PVF-1 24D-00281	3/14/2025	3/14/2026
TEMPERATURE	AIR METER	-20 F to 240 F	+/- .5 % 2 F	Cooper SRH77A S/N 100516003	9/30/2025	9/30/2026
	AIR PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper SRH77A S/N 100516003	9/30/2025	9/30/2026
	IMMERSION METER	-20 F to 240 F	+/- .5 % 2 F	Cooper SRH77A S/N 100516003	9/30/2025	9/30/2026
	IMMERSION PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper SRH77A S/N 100516003	9/30/2025	9/30/2026
	CONTACT METER	-20 F to 240 F	+/- .5 % 2 F	Cooper SRH77A S/N 100516003	9/30/2025	9/30/2026
	CONTACT PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper SRH77A S/N 100516003	9/30/2025	9/30/2026
HUMIDITY	HUMIDITY PROBE	10 % RH to 90 % RH	3% of reading	Cooper SRH77A S/N 100516003	9/30/2025	9/30/2026
ELECTRICAL	VOLTAGE MEASUREMENT	0 VAC to 600 VAC	2 % reading +/- 5 digits	Klein Tools CL800 S/N 1220C-C1	9/30/2025	9/30/2026
	AMPERAGE MEASUREMENT	0 Amperes to 100 Amperes	2 % reading +/- 5 digits	Klein Tools CL800 S/N 1220C-C1	9/30/2025	9/30/2026
ROTATION	ROTATION MEASUREMENT	60 rpm to 5000 rpm	2 % reading 2 rpm	Shimpo DT 207Lp S/N D1690029R	9/30/2025	9/30/2026
HYDRONIC	PRESSURE MEASUREMENT	-30 in Hg to 200 psi	±2% of reading +/- 1 psi	Hydronic Manometer - Dwyer 490W-6-HKIT S/N: 359515093207912	10/23/2025	10/23/2026
	DIFFERENTIAL PRESSURE MEASUREMENT	0 psi - 80 psi	±2% of reading +/- 1 psi	Hydronic Manometer - Dwyer 490W-6-HKIT S/N: 359515093207912	10/23/2025	10/23/2026

