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Report: Inspection Report
Function: Test, Adjust, & Balance
Date: 02/06/2026
Completed By: National TAB

PROJECT
02-02-26 CULVERS - CHARLOTTE, NC

3416 W ARROWOOD RD

CHARLOTTE, NC 28273

Client

Accurex
400 Ross Ave
Schofield, WI 54476

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Project: 02-02-26 CULVERS - CHARLOTTE, NC

Table Of Contents

Section	Page #
Summary Data	3
AHU/RTU	4
FAN - Exhaust	10
Kitchen Hood Type I	19
GRD Layout	23



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Project: 02-02-26 CULVERS - CHARLOTTE, NC
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.

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

Each kitchen exhaust fan was measured at the hood filter bay utilizing a velocity matrix and a manufacturer's correction factor. Each filter velocity is multiplied by the manufacturer's corrected area. The sum of these readings equals the total flow of the exhaust fans. The total flow of the exhaust was then adjusted to within tolerance of the design flow. . Any EF's that fell outside of this tolerance is noted throughout the report.

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 of -0.02" wc to +0.02" wc 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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Project: 02-02-26 CULVERS - CHARLOTTE, NC

System/Unit: AHU/RTU



Asset: RTU1

AREA:DINING

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE/LENNOX	CAPTIVEAIRE/LENNOX
Serial Num	-	7481106
Model Num	UNKNOWN	CAS-HVAC3-I.300-24-2OT
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	31.5X45X5
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Test Data		
	Design	Actual
SF CFM	6150	6231
SF RPM	-	DD/ 55.4
RA CFM	4400	4416
OA CFM	1750	1815
RL Voltage	-	213/213/213
RL Amperage	-	23.4/23.3/23.1
SF Rotation	-	CCW
SF System SetPt	-	55.4
RA Damper Position	-	5.7
Min OA Damper Position	-	4.3
Min OA Damper Type	-	ECON

Motor Data		
	Design	Actual
Motor MFG	-	TECO
Frame	-	215T
Horsepower	-	10
Motor Rpm	-	1755
Phase	3	3
Rated Voltage	208	230
Rated Amperage	-	24.3

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

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

Completed By: Jearod Ferrette on 02/05/2026

Notes:
See issue/notes about abnormal balance reading.

Written By: Jearod Ferrette on 02/05/2026

Unit Data - PHOTO LOG



02/03/2026



02/03/2026

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Project:02-02-26 CULVERS - CHARLOTTE, NC

AHU/RTU



Diffuser Supply (GRD)

RTU1/DINING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	VESTIBULE	SD3	8"	150	1	207	159	159	106.0
SGRD2	MENS RR	SD4	8"	100	1	226	92	92	92.0
SGRD3	WOMENS RR	SD4	8"	100	1	264	277	277	277.0
SGRD4	HALL	SD1	12"	550	1	420	504	504	91.6
SGRD5	CUSTOMER SERVICE	SD1	10"	350	1	369	341	341	97.4
SGRD6	CUSTOMER SERVICE	SD1	10"	350	1	394	380	380	108.6
SGRD7	CUSTOMER SERVICE	SD1	10"	350	1	294	284	284	81.1
SGRD8	CUSTOMER SERVICE	SD1	10"	350	1	232	200	200	57.1
SGRD9	OFFICE	SD1	8"	200	1	194	206	206	103.0
SGRD10	SUNDAE SERVICE	SD1	12"	500	1	425	479	479	95.8
SGRD11	ENTRY	SD3	8"	150	1	225	137	137	91.3
SGRD12	DRINKS	SD1	8"	150	1	176	142	142	94.7
SGRD13	ORDER AREA	SD1	12"	450	1	225	433	433	96.2
SGRD14	DRINKS	SD1	10"	150	1	319	145	145	96.7
SGRD15	DINING	SD1	8"	150	1	164	139	139	92.7
SGRD16	DINING	SD1	8"	150	1	182	141	141	94.0
SGRD17	DINING	SD1	8"	150	1	101	140	140	93.3
SGRD18	DINING	SD1	8"	150	1	178	147	147	98.0
SGRD19	DINING	SD1	8"	150	1	211	241	241	160.7
SGRD20	DINING	SD1	8"	150	1	188	145	145	96.7
SGRD21	DINING	SD1	8"	150	1	173	149	149	99.3
SGRD22	DINING	SD1	8"	150	1	145	163	163	108.7
SGRD23	DINING	SD1	8"	150	1	192	267	267	178.0
SGRD24	DINING	SD1	8"	150	1	154	140	140	93.3
SGRD25	DINING	SD1	8"	150	1	149	163	163	108.7
SGRD26	DINING	SD1	8"	150	1	180	166	166	110.7
SGRD27	DINING	SD1	8"	150	1	174	146	146	97.3
SGRD28	DINING	SD1	8"	150	1	215	160	160	106.7
SGRD29	DINING	SD1	8"	150	1	192	145	145	96.7
Total				6150		6568	6231	6231	101.32%

Asset	Notes	Date	Written By
SGRD3	Damper inaccessible above hard ceiling, unable to lower to design.	02/05/2026	Jearod Ferrette
SGRD19	Damper not installed, unable to balance to design. See issues/ notes.	02/05/2026	Jearod Ferrette
SGRD23	Damper not installed, unable to balance to design. See issues/ notes.	02/05/2026	Jearod Ferrette

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Project: 02-02-26 CULVERS - CHARLOTTE, NC

System/Unit: AHU/RTU



Asset: RTU2

AREA:KITCHEN

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE/LENNOX	CAPTIVEAIRE/LENNOX
Serial Num	-	7481106
Model Num	UNKNOWN	CAS-HVAC3-I.300-24-20T
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	31.5X45.5
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2

Test Data		
	Design	Actual
SF CFM	6025	5638
SF RPM	-	DD/ 59.5HZ
RA CFM	4450	3897
OA CFM	1700	1741
RL Voltage	-	213/213/213
RL Amperage	-	24.7/25.1/25.0
SF Rotation	-	CCW
SF System SetPt	-	59.5HZ
RA Damper Position	-	5.8
Min OA Damper Position	-	4.2
Min OA Damper Type	-	ECON

Motor Data		
	Design	Actual
Motor MFG	-	TECO
Frame	-	215T
Horsepower	-	10
Motor Rpm	-	1755
Phase	3	3
Rated Voltage	208	230
Rated Amperage	-	24.3

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

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

Completed By: Jearod Ferrette on 02/05/2026

Unit Data - PHOTO LOG



02/03/2026



02/03/2026

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Project:02-02-26 CULVERS - CHARLOTTE, NC

AHU/RTU



Diffuser Supply (GRD)

RTU2/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	TOILET	SD1	6"	75	1	102	65	69	92.0
SGRD2	KITCHEN	SD5	8"	125	1	0	0	0	0.0
SGRD3	KITCHEN	SD5	10"	275	1	330	283	273	99.3
SGRD4	KITCHEN	SD5	10"	250	1	340	253	243	97.2
SGRD5	KITCHEN	SD5	12"	400	1	294	474	397	99.3
SGRD6	KITCHEN	SD5	12"	400	1	501	280	392	98.0
SGRD7	KITCHEN	SD5	12"	375	1	153	346	346	92.3
SGRD8	KITCHEN	SD5	8"	200	1	148	180	189	94.5
SGRD9	KITCHEN	SD5	12"	350	1	72	274	274	78.3
SGRD10	KITCHEN	SD5	12"	350	1	371	486	486	138.9
SGRD11	KITCHEN	SD1	12"	350	1	478	343	333	95.1
SGRD12	BOH	SD1	12"	600	1	395	522	520	86.7
SGRD13	BOH	SD1	12"	600	1	589	582	562	93.7
SGRD14	UTILITY ROOM	SD1	12"	600	1	538	547	547	91.2
SGRD15	SUNDAE SERVICE	SD1	12"	600	1	514	517	517	86.2
SGRD16	SUNDAE SERVICE	SD1	12"	600	1	493	491	490	81.7
Total				6150		5318	5643	5638	91.67%

Asset	Notes	Date	Written By
SGRD2	SGRD 2-2 NOT INSTALLED, AIR WAS MOVED TO THE BACK 3 DIFFUSERS OF COOKLINE	02/05/2026	Jearod Ferrette
SGRD10	Damper inaccessible, supply drop is laying on ceiling pad, unable moved. diffuser is taking to the air from neighboring diffusers. See issues/ notes.	02/05/2026	Jearod Ferrette
SGRD12	Damper not installed.	02/05/2026	Jearod Ferrette

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Project: 02-02-26 CULVERS - CHARLOTTE, NC

System/Unit: FAN - Exhaust



Asset: EF1

AREA:BOH

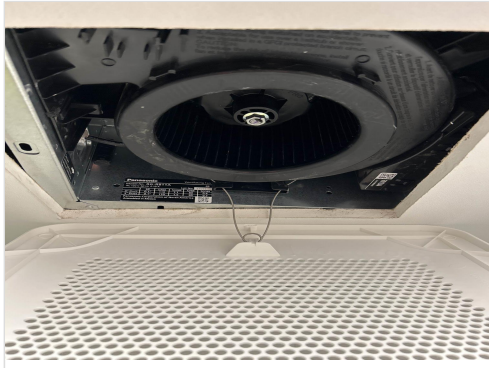
Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XCR-B80	XCR-B80
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	PANASONIC
Frame	-	NA
Horsepower	0.01	0.01
Motor Rpm	900	900
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	NA
Service Factor	-	NA

Test Data		
	Design	Actual
CFM	75	71
Fan RPM	881	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	MAX
Total ESP	0.125"	0.10"
Fan Inlet SP	-	-0.10"
Fan Discharge SP	-	ATMO

Completed By: Jearod Ferrette on 02/05/2026

Unit Data - PHOTO LOG



02/04/2026



02/03/2026

National TAB

Project: 02-02-26 CULVERS - CHARLOTTE, NC

System/Unit: FAN - Exhaust



Asset: PRV1

AREA:RESTROOM

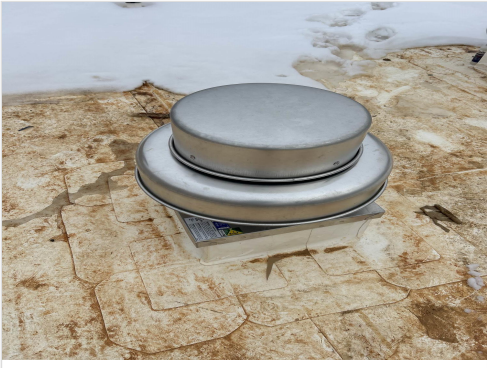
Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XRED-090-VG	XRED-090-VG
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	VARI GREEN
Frame	-	NA
Horsepower	0.06	0.06
Motor Rpm	1750	1750
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.73
Service Factor	-	1

Test Data		
	Design	Actual
CFM	375	375
Fan RPM	1466	DD
Fan Rotation	-	CCW
Motor RPM	-	DD
System SetPt	-	9.5 ON DAIL
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	0.5"	0.46"
Fan Inlet SP	-	-0.46"
Fan Discharge SP	-	ATMO

Completed By: Jearod Ferrette on 02/04/2026

Unit Data - PHOTO LOG



02/03/2026

National TAB

Project:02-02-26 CULVERS - CHARLOTTE, NC

FAN - Exhaust



Diffuser Supply (GRD)

PRV1/RESTROOM

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	MENS RR	EG1	8X8	150	1	117	117	155	103.3
SGRD2	WOMENS RR	EG1	8X8	150	1	119	119	151	100.7
SGRD3	TOILET	EG1	8X8	75	1	128	128	69	92.0
Total				375		364	364	375	100%

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Project: 02-02-26 CULVERS - CHARLOTTE, NC

System/Unit: FAN - Exhaust



Asset: PRV2

AREA:GRIDDLE

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XCUE-140-VG	XCUE-140-VG
Serial Num	-	28353912
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	VARI GREEN
Frame	-	NA
Horsepower	1	1
Motor Rpm	1755	1750
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	5.8
Service Factor	-	1

Test Data		
	Design	Actual
CFM	1500	1530
Fan RPM	1725	DD/ 6.6 VDC
Fan Rotation	-	CCW
Motor RPM	-	DD/ 6.6 VDC
System SetPt	-	6.6 VDC
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	1.801"	0.46"
Fan Inlet SP	-	-0.46"
Fan Discharge SP	-	ATMO

Completed By: Jearod Ferrette on 02/05/2026

Unit Data - PHOTO LOG



02/03/2026

National TAB

Project: 02-02-26 CULVERS - CHARLOTTE, NC

System/Unit: FAN - Exhaust



Asset: PRV3

AREA:FRYER

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XCUE-140-VG	XCUE-140-VG
Serial Num	-	28021051
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	VARI GREEN
Frame	-	NA
Horsepower	1	1
Motor Rpm	1750	1750
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	5.8
Service Factor	-	1

Test Data		
	Design	Actual
CFM	1500	1606
Fan RPM	1365	DD/ 6.5 VDC
Fan Rotation	-	CCW
Motor RPM	-	DD/ 6.5 VDC
System SetPt	-	6.5 VDC
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	1"	0.47"
Fan Inlet SP	-	-0.47"
Fan Discharge SP	-	ATMO

Completed By: Jearod Ferrette on 02/05/2026

Unit Data - PHOTO LOG



02/03/2026

National TAB

Project: 02-02-26 CULVERS - CHARLOTTE, NC

System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:GRIDDLE

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XGEP-64-S	XGEP-64-S
Job / Serial Num	-	28353012
Type	TYPE I LOW PROX	TYPE I LOW PROX
Hood length	64"	64"
Hood Width	23"	23"

Test Data Exhaust		
	Design	Actual
Filter Type	XTRACTOR	XTRACTOR
Filter Size 1	16X16	16X16
Filter Qty 1	4	4
Filter AK factor size 1	1.53	1.53
Filter Total AK Area	6.12	6.12
Filter1 FPM	-	257
Filter2 FPM	-	239
Filter3 FPM	-	239
Filter4 FPM	-	267
Filter Ave FPM(corr)	-	250
CFM	1500	1530

Cooking Equipment	
	Actual
Item 1	GRIDDLE

Completed By: Jearod Ferrette on 02/05/2026

Unit Data - PHOTO LOG



02/03/2026

National TAB

Project: 02-02-26 CULVERS - CHARLOTTE, NC

System/Unit: Kitchen Hood Type I



Asset: HD2

AREA:FRYER

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XXEP-83-S	XXEP-83-S
Job / Serial Num	-	28021051
Type	TYPE I LOW PROX	TYPE I LOW PROX
Hood length	83"	83"
Hood Width	23"	23"

Test Data Exhaust		
	Design	Actual
Filter Type	XTRACTOR	XTRACTOR
Filter Size 1	16X16	16X16
Filter Qty 1	5	5
Filter AK factor size 1	1.53	1.53
Filter Total AK Area	7.65	7.65
Filter1 FPM	-	228
Filter2 FPM	-	192
Filter3 FPM	-	211
Filter4 FPM	-	206
Filter5 FPM	-	217
Filter Ave FPM(corr)	-	210
CFM	1500	1606

Cooking Equipment	
	Actual
Item 1	FRYER

Completed By: Jearod Ferrette on 02/05/2026

Unit Data - PHOTO LOG



02/03/2026

