Report By:

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

Report: Certified TAB Report

Function: Test, Adjust, & Balance

Date: 03/09/2026

Completed By: National TAB

PROJECT

03-02-26 CULVERS - MESA, AZ

1830 E McKellips Road

Mesa, AZ 85203

Client

Accurex

PO Box 410

Schofield, WI 54476

National TAB

Project: 03-02-26 CULVERS - MESA, AZ

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CERTIFICATION

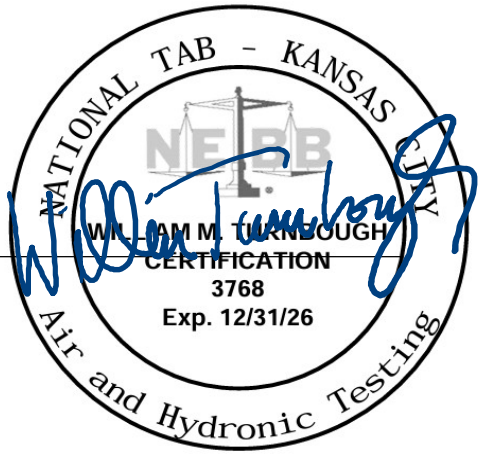
PROJECT: Culver's - Mesa, AZ

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
REGISTRATION NO: 3768
CERTIFIED BY: Will Turnbough
DATE: 3/9/2026

Submitted and Certified by:

NEBB TAB FIRM: National TAB - Kansas City
TAB PROFESSIONAL: Will Turnbough
REGISTRATION NO: CP-24289
CERTIFICATION EXP: 12/31/2026



PROJECT TEAM MEMBERS

Architect/Engineer/Consultant:	ID Studio 4 6201 Campus Circle Drive E Irving, TX, 75063
General Contractor:	Desert Build
Mechanical Contractor:	A1 Air Conditioning
Test, Adjust, & Balance:	National TAB Intelligence - Kansas City 1126 Swift St North Kansas City, MO, 64116

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)
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.

General Exhaust Fans
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.

Remarks:

1. Diffusers 1, 4, and 23 on RTU-1 are low on flow. Diffuser 7 damper is not accessible. Unable to push air to the diffusers after multiple attempts without being a detriment to overall unit performance. Total flow is within design and not anticipated to cause any comfort issues.
2. Damper for diffuser 9 on the cookline is not accessible. Airflow is high as a result.
3. Rigid straight duct is not used on the kitchen cookline diffusers.

Issue List

- LOW FLOW SGRD1-1,4, & 23
- MSC ON MEF NOT FUNCTIONAL
- NO BACKDRAFT DAMPER
- NONFUNCTIONAL/INACCESSIBLE DAMPERS
- RIGID DUCT NOT INSTALLED
- SGRD1-7 INACCESSIBLE DAMPER
- SGRD2-9 INACCESSIBLE DAMPER

03-02-26 CULVERS - MESA, AZ

Project Issue Information

Issue Name :	LOW FLOW SGRD1-1,4, & 23		
Description :	DR: After 5 passes and turning up the unit twice, can't get air to divert to SGRD1-1,4, or 23. Flow goes to SGRD1-5 through 14 every time the unit is raised, even with those dampers shuttered and 1,4,&23 fully open. Branch installation varies from GRD, also separate damper issue noted. Not anticipated to cause an issue, but noted for reference.		
Created By :	National TAB	**Assigned To :**	National TAB - Brianna Biggs
Status :	Open		
Priority :	Low	**Asset Tag :**	RTU-1
Originated Date :	03/06/2026 - Christine Weale - National TAB		

03-02-26 CULVERS - MESA, AZ

Project Issue Information

Issue Name :	MSC ON MEF NOT FUNCTIONAL		
Description :	Can't balance MEF due to motor speed ctrlr not affecting fan speed. Not anticipated to cause an issue, but GC has ordered a new one. I let them know they should set it to Medium once installed for best chance of being ~75cfm.		
Created By :	National TAB	**Assigned To :**	National TAB - Brianna Biggs
Status :	Pending		
Priority :	Medium	**Asset Tag :**	MEF-1
Originated Date :	03/06/2026 - Christine Weale - National TAB		

03-02-26 CULVERS - MESA, AZ

Project Issue Information

Issue Name :	NO BACKDRAFT DAMPER		
Description :	TEF1, the RR exhaust, doesn't have a backdraft damper or birdscreen.		
Created By :	National TAB	**Assigned To :**	National TAB - Brianna Biggs
Status :	Open		
Priority :	InfoOnly	**Asset Tag :**	PRV-1
Originated Date :	03/07/2026 - Christine Weale - National TAB		

03-02-26 CULVERS - MESA, AZ

Project Issue Information

Issue Name :	NONFUNCTIONAL/INACCESSIBLE DAMPERS		
Description :	SGRD1-7: Flow varies between 345-380cfm regardless of lever movement (DR). Some dampers are covered by insulation and the cable tie.		
Created By :	National TAB	**Assigned To :**	National TAB - Brianna Biggs
Status :	Open		
Priority :	Urgent	**Asset Tag :**	SGRD7
Originated Date :	03/06/2026 - Christine Weale - National TAB		

03-02-26 CULVERS - MESA, AZ

Project Issue Information

Issue Name : RIGID DUCT NOT INSTALLED

Description : MSET details cookline duct flex to come from a rigid straight pipe. Duct is flex only on some branches and is not straight. Recommend installing straight pipe from main supply drop and duct coming down straight, not curvy, so no smoke issues arise in kitchen and flow balances properly.

Created By : National TAB

Assigned To : National TAB - Brianna Biggs

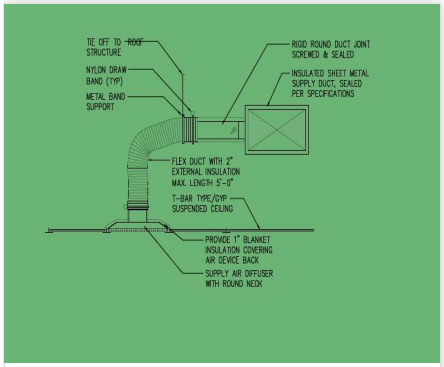
Status : Open

Priority : High

Asset Tag : RTU-2

Originated Date : 03/05/2026 - Christine Weale - National TAB

Project Issue File Details



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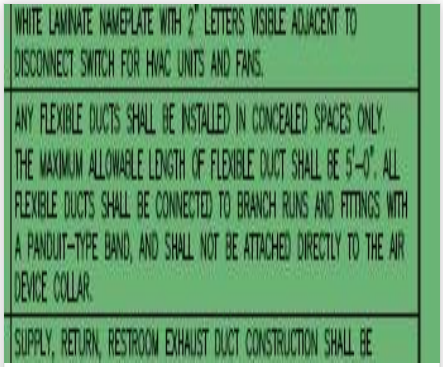
WHITE LAMINATE NAMEPLATE WITH 2" LETTERS VISIBLE ADJACENT TO DISCONNECT SWITCH FOR HVAC UNITS AND FANS.

ANY FLEXIBLE DUCTS SHALL BE INSTALLED IN CONCEALED SPACES ONLY. THE MAXIMUM ALLOWABLE LENGTH OF FLEXIBLE DUCT SHALL BE 5'-0". ALL FLEXIBLE DUCTS SHALL BE CONNECTED TO BRANCH RUNS AND FITTINGS WITH A PANDUIT-TYPE BAND, AND SHALL NOT BE ATTACHED DIRECTLY TO THE AIR DEVICE COLLAR.

SUPPLY, RETURN, RESTROOM EXHAUST DUCT CONSTRUCTION SHALL BE

03/06/2026

03/05/2026

03-02-26 CULVERS - MESA, AZ

Project Issue Information

Issue Name :	SGRD1-7 INACCESSIBLE DAMPER		
Description :	Even the mech crew couldn't access the damper w/ the tables installed. Flag placed after TAB was initiated, is placed on the conduit below it.		
Created By :	National TAB	**Assigned To :**	National TAB - Brianna Biggs
Status :	Open		
Priority :	High	**Asset Tag :**	SGRD7
Originated Date :	03/07/2026 - Christine Weale - National TAB		

03-02-26 CULVERS - MESA, AZ

Project Issue Information

Issue Name :	SGRD2-9 INACCESSIBLE DAMPER		
Description :	Fridges are in the way.		
Created By :	National TAB	**Assigned To :**	National TAB - Brianna Biggs
Status :	Open		
Priority :	Low	**Asset Tag :**	SGRD9
Originated Date :	03/07/2026 - Christine Weale - National TAB		

National TAB

Project: 03-02-26 CULVERS - MESA, AZ

System/Unit: AHU/RTU

Asset: RTU-1 AREA:DINING

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5625M01622
Model Num	LGT210H5M	LGT210H5MM1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	3
OA Filter Size 1	-	24.5X15
Num Final Filter 1	-	6
Final Filter Size 1	-	24X24X2

Motor Data		
	Design	**Actual**
Motor MFG	-	NIDEC
Frame	-	184TZ
Horsepower	4.35	5.0
Motor Rpm	-	1765
Phase	3	3
Rated Voltage	208	230
Rated Amperage	-	13.0 (SF 1.15)

Drive Data	
	Actual
Motor Sheave Size	6.25"
Motor Bore Size	1"
Fan Sheave Size	10.5"
Fan Sheave Bore	1.125"
Belt CL Distance	20.75"
Num of Belts	1
Belt Size	BX65

Test Data		
	Design	**Actual**
SF CFM	7000	6878
SF RPM	-	50 HZ
RA CFM	5280	5167
OA CFM	1720	1711
RL Voltage	-	155
RL Amperage	-	11.3
SF Rotation	-	CCW
SF System SetPt	-	50 HZ
RA Damper Position	-	57%
Min OA Damper Position	-	43%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	55*

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.41"
Fan Suction SP	-	-0.76"
Fan Discharge SP	-	0.75"
Total ESP	0.75"	1.16"
Fan Total SP	-	1.51"

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

Completed By: Christine Weale on 03/07/2026

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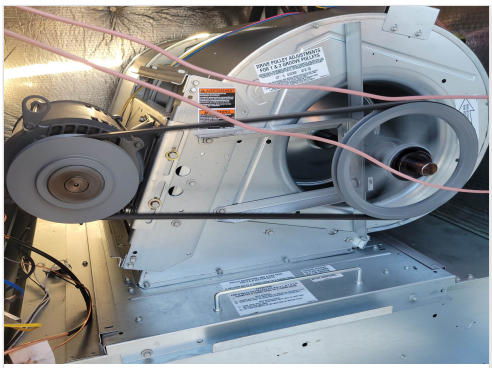
Unit Data - PHOTO LOG

03/07/2026

03/07/2026

03/07/2026

Drive Data - PHOTO LOG



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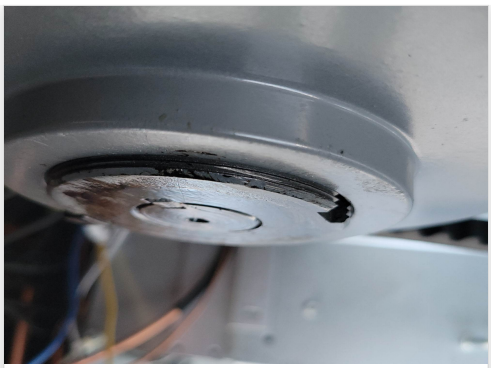

03/07/2026

National TAB

Project:03-02-26 CULVERS - MESA, AZ

AHU/RTU

Diffuser Supply (GRD)

RTU-1/DINING

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	ENTRY	CD	10"	310	1	275	210	260	83.9
SGRD2	RESTROOM	GD	8"	125	1	241	195	131	104.8
SGRD3	RESTROOM	GD	8"	125	1	210	176	126	100.8
SGRD4	SERVICE COUNTER	CD	12"	455	1	345	275	340	74.7
SGRD5	DINING	CD	10"	310	1	547	425	325	104.8
SGRD6	DINING	CD	10"	310	1	358	295	285	91.9
SGRD7	DINING	CD	10"	310	1	434	340	385	124.2
SGRD8	DINING	CD	10"	310	1	346	280	330	106.5
SGRD9	DINING	CD	10"	310	1	370	290	320	103.2
SGRD10	DINING	CD	10"	310	1	435	334	302	97.4
SGRD11	DINING	CD	10"	300	1	401	316	320	106.7
SGRD12	DINING	CD	10"	300	1	365	290	302	100.7
SGRD13	DINING	CD	10"	300	1	370	300	300	100.0
SGRD14	DINING	CD	10"	310	1	555	408	300	96.8
SGRD15	DINING	CD	10"	300	1	409	300	323	107.7
SGRD16	DINING	CD	10"	300	1	400	317	326	108.7
SGRD17	DINING	CD	10"	310	1	454	348	304	98.1
SGRD18	DINING	CD	10"	310	1	355	282	300	96.8
SGRD19	DINING	CD	10"	310	1	459	365	312	100.6
SGRD20	DINING	CD	10"	310	1	480	360	345	111.3
SGRD21	DINING	CD	10"	310	1	400	314	321	103.5
SGRD22	DINING	CD	10"	310	1	411	299	321	103.5
SGRD23	SERVICE COUNTER	CD	12"	455	1	292	226	300	65.9
Total				7000		8912	6945	6878	98.26%

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Project: 03-02-26 CULVERS - MESA, AZ

System/Unit: AHU/RTU

Asset: RTU-2 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	LENNOX	LENNOX
Serial Num	-	5625M01652
Model Num	LGT240H5M	LGT240H5MM1Y
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	3
OA Filter Size 1	-	24.5X15
Num Final Filter 1	-	6
Final Filter Size 1	-	24X24X2

Motor Data		
	Design	**Actual**
Motor MFG	-	NIDEC
Frame	-	213TZ
Horsepower	5.83	7.5
Motor Rpm	-	1765
Phase	3	3
Rated Voltage	208	230
Rated Amperage	-	18.7 (SF 1.15)

Drive Data	
	Actual
Motor Sheave Size	6.25"
Motor Bore Size	1"
Fan Sheave Size	10.5"
Fan Sheave Bore	1.125"
Belt CL Distance	20.75"
Num of Belts	1
Belt Size	BX65

Test Data		
	Design	**Actual**
SF CFM	8000	7938
SF RPM	-	55 HZ
RA CFM	6040	5940
OA CFM	1960	1998
RL Voltage	-	187.7
RL Amperage	-	13.9
SF Rotation	-	CCW
SF System SetPt	-	55 HZ
RA Damper Position	-	50%
Min OA Damper Position	-	50%
Min OA Damper Type	-	ECONOMIZER
OA Enthalpy Setpt	-	55*

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.47"
Fan Suction SP	-	-0.90"
Fan Discharge SP	-	0.73"
Total ESP	0.75"	1.2"
Fan Total SP	-	1.63"

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

Completed By: Christine Weale on 03/07/2026

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Unit Data - PHOTO LOG

03/07/2026

03/07/2026

03/07/2026

National TAB

Project:03-02-26 CULVERS - MESA, AZ

AHU/RTU

Diffuser Supply (GRD)

RTU-2/KITCHEN

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	SERVICE COUNTER	KD5	10"	350	1	425	385	362	103.4
SGRD2	SERVICE COUNTER	KD5	10"	350	1	397	346	319	91.1
SGRD3	SERVICE COUNTER	KD5	10"	350	1	275	385	387	110.6
SGRD4	SERVICE COUNTER	KD5	10"	350	1	440	336	322	92.0
SGRD5	KITCHEN	KD	12"	500	1	485	576	528	105.6
SGRD6	KITCHEN	KD2	12"	500	1	451	560	538	107.6
SGRD7	KITCHEN	KD2	12"	500	1	435	540	480	96.0
SGRD8	OFFICE	KD2	8"	200	1	162	188	195	97.5
SGRD9	KITCHEN	KD3	8"	200	1	260	302	273	136.5
SGRD10	KITCHEN	KD3	10"	375	1	515	425	389	103.7
SGRD11	KITCHEN	KD3	12"	400	1	730	451	408	102.0
SGRD12	KITCHEN	KD3	12"	400	1	440	469	435	108.8
SGRD13	KITCHEN	KD3	10"	250	1	345	480	232	92.8
SGRD14	KITCHEN	KD3	10"	275	1	411	357	277	100.7
SGRD15	KITCHEN	KD3	10"	125	1	613	141	131	104.8
SGRD16	BOH	KD2	6"	85	1	128	128	85	100.0
SGRD17	KITCHEN	KD3	10"	350	1	435	375	363	103.7
SGRD18	KITCHEN	KD3	10"	350	1	560	435	385	110.0
SGRD19	KITCHEN	KD3	10"	350	1	490	353	333	95.1
SGRD20	STORAGE	KD2	12"	500	1	226	486	473	94.6
SGRD21	STORAGE	KD2	12"	500	1	270	357	309	61.8
SGRD22	STORAGE	KD2	12"	500	1	402	490	463	92.6
SGRD23	STORAGE	KD4	10"	240	1	217	280	251	104.6
Total				8000		9112	8845	7938	99.22%

Asset	Notes	Date	Written By
SGRD9	DAMPER INACCESSIBLE, SEE 'REMARKS'.	03/07/2026	Christine Weale
SGRD21	DAMPER FULLY OPEN, CANNOT 'PUSH' FLOW TO DUCT.	03/07/2026	Christine Weale

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Project: 03-02-26 CULVERS - MESA, AZ

System/Unit: FAN - Exhaust

Asset: MEF-1 AREA:MOP ROOM

Unit Data		
	Design	**Actual**
MFG	ACCUREX	GREENHECK
Model Num	SP-B80	SP-B80
Serial Num	-	28318285
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	GREENHECK
Frame	-	NL
Horsepower	0.01	NL
Motor Rpm	-	900
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.16
Service Factor	-	NL

Test Data		
	Design	**Actual**
CFM	75	100
Fan RPM	-	N/A
Fan Rotation	-	CW
Motor RPM	-	N/A
System SetPt	-	UNAVAILABLE
RL Voltage	-	N/A
RL Amperage	-	N/A
Total ESP	0.125"	N/A
Fan Inlet SP	-	N/A
Fan Discharge SP	-	ATMS

Completed By: Christine Weale on 03/07/2026

Notes:
SPEED CTRLR NOT FUNCTIONING, SEE 'REMARKS'.

Written By: Christine Weale on 03/07/2026

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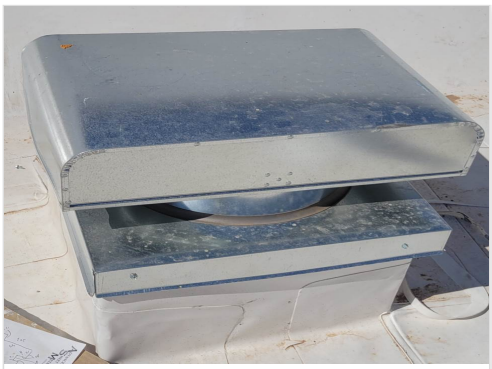
Unit Data - PHOTO LOG



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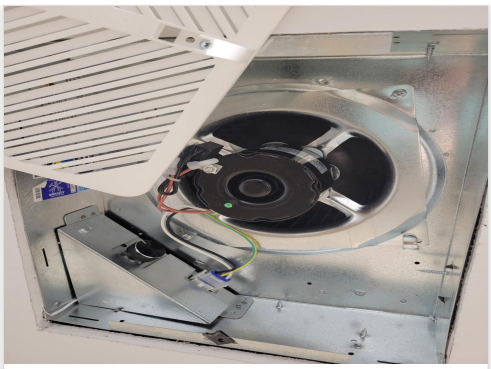

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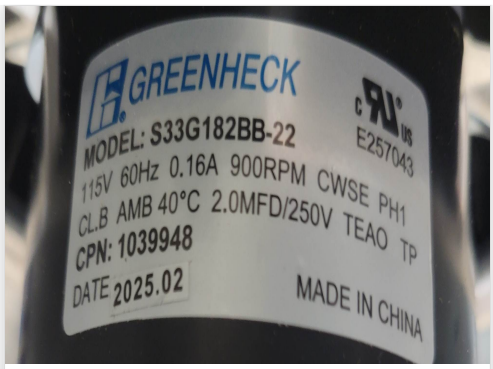

03/07/2026

National TAB

Project: 03-02-26 CULVERS - MESA, AZ

System/Unit: FAN - Exhaust

Asset: PRV-1 AREA:RESTROOMS

Unit Data		
	Design	**Actual**
MFG	ACCUREX	ACCUREX
Model Num	XRED-090-VG	XRED-095-VG
Serial Num	-	28337871
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	VARI-GREEN
Frame	-	NL
Horsepower	0.06	1/6 (0.17)
Motor Rpm	-	300-1750
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	2.2
Service Factor	-	NL

Test Data		
	Design	**Actual**
CFM	300	309
Fan RPM	-	N/A
Fan Rotation	-	CW
Motor RPM	-	N/A
System SetPt	-	3.3 @POT
RL Voltage	-	N/A
RL Amperage	-	N/A
Total ESP	0.50"	0.03"
Fan Inlet SP	-	-0.03"
Fan Discharge SP	-	ATMS

Completed By: Christine Weale on 03/07/2026

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Unit Data - PHOTO LOG

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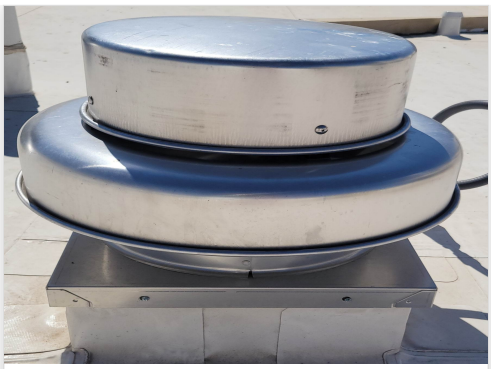

03/07/2026

National TAB

Project:03-02-26 CULVERS - MESA, AZ

FAN - Exhaust

Diffuser Ret/Exh (GRD)

PRV-1/RESTROOMS

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	RESTROOM	GE	8"	150	1	420	350	165	110.0
EGRD2	RESTROOM	GE	8"	150	1	350	320	144	96.0
Total				300		770	670	309	103%

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National TAB

Project: 03-02-26 CULVERS - MESA, AZ

System/Unit: FAN - Exhaust

Asset: PRV-2 AREA:GRIDDLE

Unit Data		
	Design	**Actual**
MFG	ACCUREX	ACCUREX
Model Num	XCUE-140-VG	XCUE-140-10-VG
Serial Num	-	28335799
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	VARI-GREEN
Frame	-	NL
Horsepower	1.00	1.0
Motor Rpm	-	300-1750
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	11.5
Service Factor	-	NL

Test Data		
	Design	**Actual**
CFM	1500	1614
Fan RPM	1725	N/A
Fan Rotation	-	CW
Motor RPM	-	N/A
System SetPt	-	5.7 VDC
RL Voltage	-	124.6
RL Amperage	-	2.7
Total ESP	1.80"	0.59"
Fan Inlet SP	-	-0.59"
Fan Discharge SP	-	ATMS

Completed By: Christine Weale on 03/07/2026

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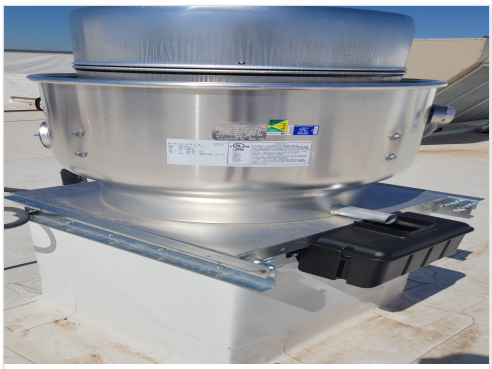
Unit Data - PHOTO LOG



03/07/2026

National TAB

Project: 03-02-26 CULVERS - MESA, AZ

System/Unit: FAN - Exhaust

Asset: PRV-3 AREA:FRYER

Unit Data		
	Design	**Actual**
MFG	ACCUREX	ACCUREX
Model Num	XCUE-140-10-VG	XCUE-140-10-VG
Serial Num	-	28335800
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	VARI-GREEN
Frame	-	NL
Horsepower	1.00	1.0
Motor Rpm	-	300-1750
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	11.5
Service Factor	-	NL

Test Data		
	Design	**Actual**
CFM	1500	1611
Fan RPM	-	N/A
Fan Rotation	-	CW
Motor RPM	-	N/A
System SetPt	-	5.7 VDC
RL Voltage	-	126.2
RL Amperage	-	2.55
Total ESP	1.00"	0.61"
Fan Inlet SP	-	-0.61"
Fan Discharge SP	-	ATMS

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Unit Data - PHOTO LOG

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National TAB

Project: 03-02-26 CULVERS - MESA, AZ

System/Unit: Kitchen Hood Type I

Asset: HD-1 AREA:GRIDDLE

Unit Data		
	Design	**Actual**
MFG	ACCUREX	ACCUREX
Model Num	XXEP-64-S	XXEP-64.00-S
Job / Serial Num	-	28338229
Type	LOW PROX	LOW PROX
Hood length	64"	64"
Hood Width	23"	26"

Test Data Exhaust		
	Design	**Actual**
Filter Type	X-TRACTOR	X-TRACTOR
Filter Size 1	16X16	16X16
Filter Qty 1	4	4
Filter AK factor size 1	1.78	1.78
Filter Total AK Area	7.12	7.12
Filter1 FPM	-	227
Filter2 FPM	-	212
Filter3 FPM	-	212
Filter4 FPM	-	256
Filter Ave FPM(corr)	-	226.75
CFM	1500	1614

Cooking Equipment	
	Actual
Item 1	GRIDDLE

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Unit Data - PHOTO LOG

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National TAB

Project: 03-02-26 CULVERS - MESA, AZ

System/Unit: Kitchen Hood Type I

Asset: HD-2 AREA:FRYER

Unit Data		
	Design	**Actual**
MFG	ACCUREX	ACCUREX
Model Num	XCUE-140-VG	XXEP-83.00-S
Job / Serial Num	-	28338227
Type	LOW PROX	LOW PROX
Hood length	83"	83"
Hood Width	23"	26"

Test Data Exhaust		
	Design	**Actual**
Filter Type	X-TRACTOR	X-TRACTOR
Filter Size 1	16X16	16X16
Filter Qty 1	5	5
Filter AK factor size 1	1.78	1.78
Filter Total AK Area	8.9	8.9
Filter1 FPM	-	195
Filter2 FPM	-	180
Filter3 FPM	-	169
Filter4 FPM	-	164
Filter5 FPM	-	197
Filter Ave FPM(corr)	-	181
CFM	1500	1611

Cooking Equipment	
	Actual
Item 1	FRYER

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Unit Data - PHOTO LOG

03/07/2026

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
CO2 = 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 Amperers 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

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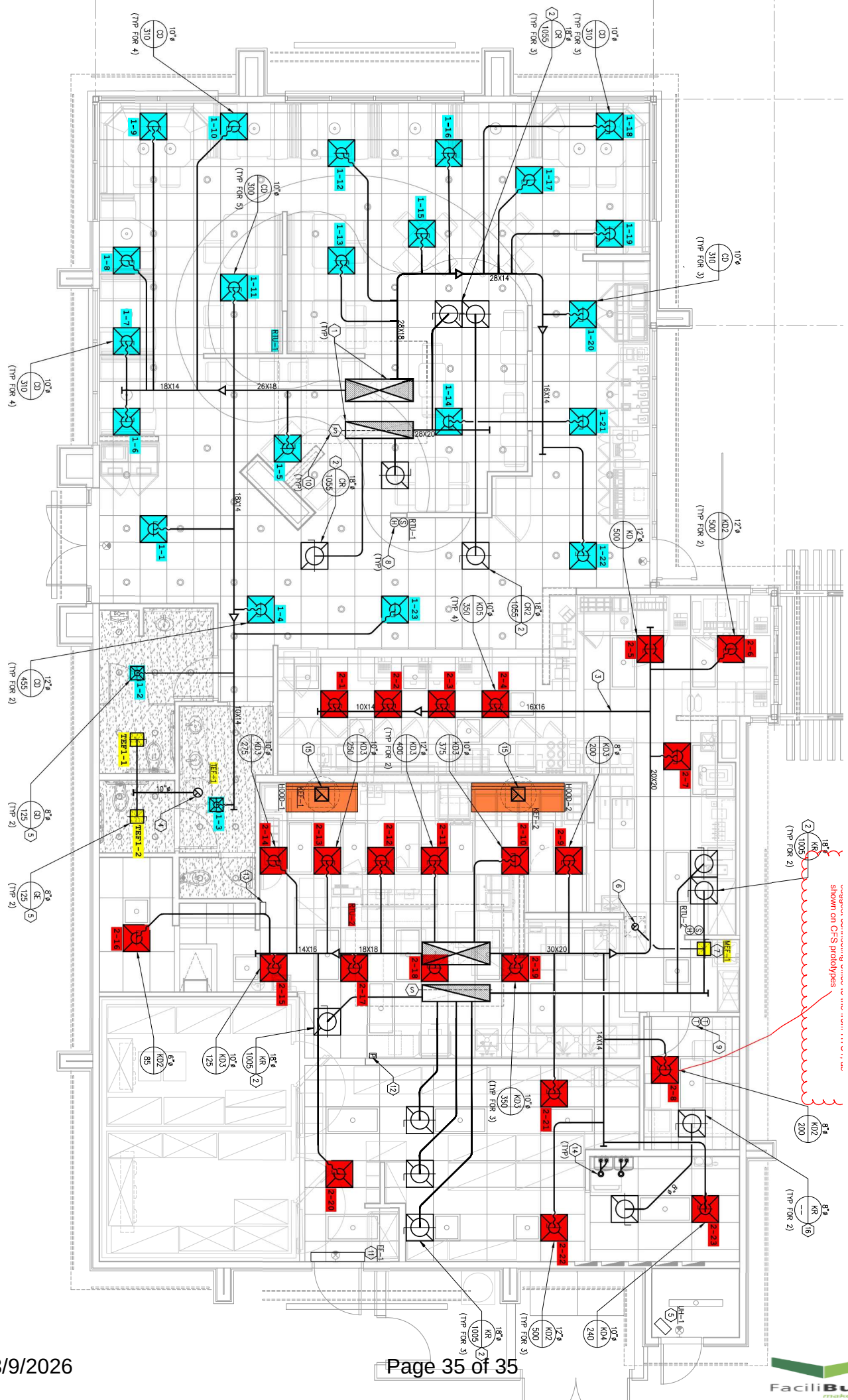

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