

Report By:

National TAB
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Report: CERTIFIED TAB REPORT
Function: Test, Adjust, & Balance
Date: 07/03/2024

PROJECT

Rivermaid Trading Co (Lodi, CA)

6337 East Pine St

Lodi, CA 95240

Client

IC Refrigeration
2216 Rockefeller Dr.

Ceres, CA 95307

National TAB

Project: Rivermaid Trading Co (Lodi, CA)

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CERTIFICATION



PROJECT: RIVERMAID (LODI, CA)

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: 7/3/2024

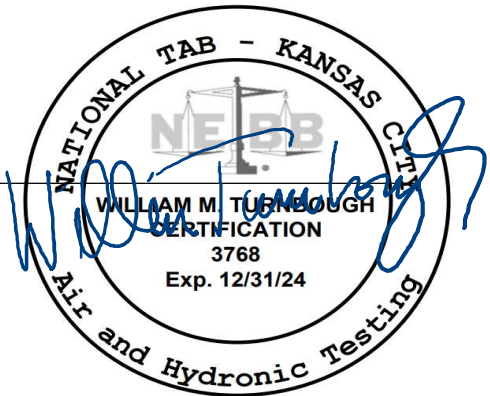
Submitted and Certified by:

NEBB TAB FIRM: National TAB - Kansas City

TAB PROFESSIONAL: Will Turnbough

REGISTRATION NO: CP-24289

CERTIFICATION EXP: 12/31/2024



Project Summary

AC'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.

HPFC's

The three HPFC's share common ductwork. The units were balanced by having them all run simultaneously and running at the same fan speed. The total airflow for the diffusers serving these units is equal to the total airflow for all three units. The diffusers were then balanced to design. OA was measured via a traverse of the ductwork.

Prop Fans (PF's)

The prop fan airflow was measured by reading the velocity at the mesh intake air grille with a velgrid. The velocity times the area was equal to the airflow of the fans.

Ceiling Exhaust Fans

The ceiling exhaust fans were measured using a flow hood. If speed adjustment was provided, the fan speed was adjusted to within design tolerance. Any equipment that fell outside of this tolerance is noted throughout the report.

National TAB

Project: Rivermaid Trading Co (Lodi, CA)

System/Unit: AHU/RTU



Asset: AC-1

AREA:12

Unit Data		
	Design	Actual
MFG	NA	INTERNATIONAL COMFORT PRODUCTS
Serial Num	-	P233468885
Model Num	NA	RHV120L02A0AAAA
Configuration	VERTICAL	HORIZONTAL
Num PreFilter 1	-	1
PreFilter Size 1	-	20.5X29.5
Num Final Filter 1	-	4
Final Filter Size 1	-	20X20X2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	3
Service Factor	-	NL

Test Data		
	Design	Actual
SF CFM	4000	4219
SF RPM	-	1563
RA CFM	3550	3757
OA CFM	450	462
RL Voltage	480	485/485/483
RL Amperage	3	1.45/1.45/1.46
RA Damper Position	-	85%
OA Damper Position	-	15%

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.41"
Fan Suction SP	-	-0.72"
Fan Discharge SP	-	0.34"
Total ESP	0.5	0.75"
Fan Total SP	-	1.06"

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Project: Rivermaid Trading Co (Lodi, CA)

AHU/RTU



Diffuser Supply (GRD)

AC-1/12

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1	12	DS-1	18X10	500	511	542	108.4
1-3	12	DS-1	18X10	500	531	541	108.2
1-3	12	DS-1	18X10	500	527	507	101.4
1-4	12	DS-1	18X10	500	621	537	107.4
1-5	12	DS-1	18X10	500	433	504	100.8
1-6	12	DS-1	18X10	500	489	542	108.4
1-7	12	DS-1	18X10	500	601	512	102.4
1-8	12	DS-1	18X10	500	572	534	106.8
Total				4000	4285	4219	105.48%

Diffuser Ret/Exh (GRD)

AC-1/12

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R1-1	WR-1	30X30	3550	1	3757	3757	3757	105.8
Total			3550		3757	3757	3757	105.83%

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Project: Rivermaid Trading Co (Lodi, CA)
System/Unit: AHU/RTU



Asset: AC-2

AREA:13

Unit Data		
	Design	Actual
MFG	NA	INTERNATIONAL COMFORT PRODUCTS
Serial Num	-	P233468886
Model Num	NA	RHV120L02A0A0AAAA
Configuration	VERTICAL	HORIZONTAL
Num PreFilter 1	-	1
PreFilter Size 1	-	20.5X29.5
Num Final Filter 1	-	4
Final Filter Size 1	-	20X20X2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	3
Service Factor	-	NL

Test Data		
	Design	Actual
SF CFM	4000	4156
SF RPM	-	1577
RA CFM	3400	3535
OA CFM	600	621
RL Voltage	480	485/484/486
RL Amperage	-	1.47/1.48/1.44
VFD Max SetPt	-	N/A
SF Motor Freq(HZ)	-	N/A
SF System SetPt	-	N/A
RA Damper Position	-	80%
OA Damper Position	-	20%
Brake Horse Power	-	N/A

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.39"
Fan Suction SP	-	-0.66"
Fan Discharge SP	-	0.37"
Total ESP	0.5	0.76"
Fan Total SP	-	1.03"

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Project: Rivermaid Trading Co (Lodi, CA)

AHU/RTU



Diffuser Supply (GRD)

AC-2/13

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-1	13	DS-1	18X10	500	411	492	98.4
2-2	13	DS-1	18X10	500	452	521	104.2
2-3	13	DS-1	18X10	500	552	517	103.4
2-4	13	DS-1	18X10	500	571	531	106.2
2-5	13	DS-1	18X10	500	511	507	101.4
2-6	13	DS-1	18X10	500	629	531	106.2
2-7	13	DS-1	18X10	500	542	531	106.2
2-8	13	DS-1	18X10	500	531	526	105.2
Total				4000	4199	4156	103.9%

Diffuser Ret/Exh (GRD)

AC-2/13

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R2-1	WR-1	30X30	3400	1	3535	3535	3535	104.0
Total			3400		3535	3535	3535	103.97%

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Project: Rivermaid Trading Co (Lodi, CA)
System/Unit: AHU/RTU



Asset: AC-3

AREA:13

Unit Data		
	Design	Actual
MFG	NA	INTERNATIONAL COMFORT PRODUCTS
Serial Num	-	P232765054
Model Num	NA	RHV120L02A0AAAA
Configuration	VERTICAL	HORIZONTAL
Num PreFilter 1	-	1
PreFilter Size 1	-	20.5X29.5
Num Final Filter 1	-	4
Final Filter Size 1	-	20X20X2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	3
Service Factor	-	NL

Test Data		
	Design	Actual
SF CFM	4000	4021
SF RPM	-	1490
RA CFM	3400	3414
OA CFM	600	609
RL Voltage	480	485/488/488
RL Amperage	2	1.62/1.60/1.59
VFD Max SetPt	-	N/A
SF Motor Freq(HZ)	-	N/A
SF System SetPt	-	N/A
RA Damper Position	-	80%
OA Damper Position	-	20%
Brake Horse Power	-	N/A

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.45"
Fan Suction SP	-	-0.69"
Fan Discharge SP	-	0.41"
Total ESP	0.5	0.86"
Fan Total SP	-	1.1"

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Project: Rivermaid Trading Co (Lodi, CA)

AHU/RTU



Diffuser Supply (GRD)

AC-3/13

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3-1	13	DS-1	18X10	500	421	484	96.8
3-2	13	DS-1	18X10	500	479	489	97.8
3-3	13	DS-1	18X10	500	527	532	106.4
3-4	13	DS-1	18X10	500	543	512	102.4
3-5	13	DS-1	18X10	500	601	488	97.6
3-6	13	DS-1	18X10	500	567	511	102.2
3-7	13	DS-1	18X10	500	521	507	101.4
3-8	13	DS-1	18X10	500	441	498	99.6
Total				4000	4100	4021	100.52%

Diffuser Ret/Exh (GRD)

AC-3/13

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R3-1	WR-1	30X30	3400	1	3414	3414	3414	100.4
Total			3400		3414	3414	3414	100.41%

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Project: Rivermaid Trading Co (Lodi, CA)
System/Unit: AHU/RTU



Asset: AC-4

AREA:13

Unit Data		
	Design	Actual
MFG	NA	INTERNATIONAL COMFORT PRODUCTS
Serial Num	-	P233468884
Model Num	NA	NA
Configuration	VERTICAL	HORIZONTAL
Num PreFilter 1	-	1
PreFilter Size 1	-	20.5X29.5
Num Final Filter 1	-	4
Final Filter Size 1	-	20X20X2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	480	460
Rated Amperage	-	3
Service Factor	-	NL

Test Data		
	Design	Actual
SF CFM	4000	4089
SF RPM	-	1590
RA CFM	3400	3501
OA CFM	600	588
RL Voltage	480	488/488/489
RL Amperage	22	1.9/1.85/1.88
VFD Max SetPt	-	N/A
SF Motor Freq(HZ)	-	N/A
SF System SetPt	-	N/A
RA Damper Position	-	80%
OA Damper Position	-	20%
Brake Horse Power	-	N/A

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.48"
Fan Suction SP	-	-0.79"
Fan Discharge SP	-	0.52"
Total ESP	0.5	1.0"
Fan Total SP	-	1.31"

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National TAB

Project: Rivermaid Trading Co (Lodi, CA)

AHU/RTU



Diffuser Supply (GRD)

AC-4/13

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
4-1	13	DS-1	18X10	500	522	547	109.4
4-2	13	DS-1	18X10	500	531	515	103.0
4-3	13	DS-1	18X10	500	662	521	104.2
4-4	13	DS-1	18X10	500	701	496	99.2
4-5	13	DS-1	18X10	500	402	513	102.6
4-6	13	DS-1	18X10	500	451	526	105.2
4-7	13	DS-1	18X10	500	488	492	98.4
4-8	13	DS-1	18X10	500	403	479	95.8
Total				4000	4160	4089	102.22%

Diffuser Ret/Exh (GRD)

AC-4/13

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R4-1			3400	1	3501	3501	3501	103.0
Total			3400		3501	3501	3501	102.97%

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Project: Rivermaid Trading Co (Lodi, CA)

System/Unit: Fan Coil



Asset: HPFC-1

AREA:FCU COMMON DUCT, TOTAL 1400 MIN OA

Unit Data		
	Design	Actual
MFG	NA	INTERNATIONAL COMFORT PRODUCTS
Model Num	NA	FVM4X6000BL
Serial Num	-	F233413342
Configuration	-	VERTICAL

Test Data		
	Design	Actual
SFAN CFM	2000	1857
Motor Speed SetPt	-	HI
RL Voltage	-	208
RL Amperage	-	6.8
RA CFM	1535	1405
OA CFM	466	452

Motor Data		
	Design	Actual
Horsepower	-	3/4
Phase	1	1
Voltage (rated)	208	230
Amperage (rated)	-	6.8

Performance Data		
	Design	Actual
Suction ESP	-	-0.43
Discharge ESP	-	0.39"
Total ESP	0.5	0.82"

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National TAB

Project: Rivermaid Trading Co (Lodi, CA)



Fan Coil

Diffuser Supply (GRD)

HPFC-1/FCU COMMON DUCT, TOTAL 1400 MIN OA

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
F1-1	BREAK ROOM	CS-4	14X14	400	453	437	109.3
F1-2	BREAK ROOM	CS-4	14X14	400	431	422	105.5
F1-3	MENS RR	CS-4	10X10	250	413	271	108.4
F1-4	BREAK ROOM	CS-4	14X14	400	369	412	103.0
F1-5	BREAK ROOM	CS-4	14X14	400	377	405	101.3
F1-6	BREAK ROOM	CS-4	14X14	400	346	422	105.5
F1-7	BREAK ROOM	CS-4	14X14	400	311	403	100.8
F1-8	JAN	CS-4	8X8	50	171	53	106.0
F1-9	JAN	CS-4	8X8	50	30	48	96.0
F1-10	WOMENS RR	CS-4	10X10	300	516	312	104.0
F1-11	BREAK ROOM	CS-4	14X14	400	389	419	104.8
F1-12	BREAK ROOM	CS-4	14X14	400	428	411	102.8
F1-13	BREAK ROOM	CS-4	14X14	400	373	387	96.8
F1-14	BREAK ROOM	CS-4	14X14	400	362	392	98.0
F1-15	BREAK ROOM	CS-4	14X14	400	400	398	99.5
F1-16	BREAK ROOM	CS-4	14X14	400	350	379	94.8
Total				5450	5719	5571	102.22%

Diffuser Ret/Exh (GRD)

HPFC-1/FCU COMMON DUCT, TOTAL 1400 MIN OA

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
RF1-1	WR-1	60X18	4600	1	4215	4215	4215	91.6
Total			4600		4215	4215	4215	91.63%

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Project: Rivermaid Trading Co (Lodi, CA)

System/Unit: Fan Coil



Asset: HPFC-2

AREA:FCU COMMON DUCT, TOTAL 1400 MIN OA

Unit Data		
	Design	Actual
MFG	NA	INTERNATIONAL COMFORT PRODUCTS
Model Num	NA	FVM4X6000BL
Serial Num	-	F233200797
Configuration	-	VERTICAL

Test Data		
	Design	Actual
SFAN CFM	2000	1857
Motor Speed SetPt	-	HI
RL Voltage	-	208
RL Amperage	-	6.8
RA CFM	-	1405
OA CFM	-	452

Motor Data		
	Design	Actual
Horsepower	-	3/4
Phase	1	1
Voltage (rated)	208	230
Amperage (rated)	-	6.8

Performance Data		
	Design	Actual
Suction ESP	-	-0.43"
Discharge ESP	-	0.39"
Total ESP	0.5	0.82"

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National TAB

Project: Rivermaid Trading Co (Lodi, CA)

System/Unit: Fan Coil



Asset: HPFC-3

AREA:FCU COMMON DUCT, TOTAL 1400 MIN OA

Unit Data		
	Design	Actual
MFG	NA	INTERNATIONAL COMFORT PRODUCTS
Model Num	NA	FVM4X6000BL
Serial Num	-	F233601863
Configuration	-	VERTICAL

Motor Data		
	Design	Actual
Horsepower	-	3/4
Phase	1	1
Voltage (rated)	208	230
Amperage (rated)	-	6.8

Test Data		
	Design	Actual
SFAN CFM	2000	1857
Motor Speed SetPt	-	HI
RL Voltage	-	208
RL Amperage	-	6.8
RA CFM	-	1405
OA CFM	-	452

Performance Data		
	Design	Actual
Suction ESP	-	-0.42"
Discharge ESP	-	0.39"
Total ESP	0.5	0.82"

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Project: Rivermaid Trading Co (Lodi, CA)

System/Unit: FAN - Exhaust



Asset: EF-1

AREA:JAN

Unit Data		
	Design	Actual
MFG	NA	BROAN
Model Num	NA	L100
Serial Num	-	NL
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	100	92
RL Voltage	-	120
RL Amperage	-	NA
Total ESP	0.5	0.32"

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	100W	NL
Motor Rpm	850	NL
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	1.1
Service Factor	-	NL

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National TAB

Project: Rivermaid Trading Co (Lodi, CA)

System/Unit: FAN - Exhaust



Asset: EF-2

AREA:JAN

Unit Data		
	Design	Actual
MFG	NA	BROAN
Model Num	NA	L100
Serial Num	-	NA
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	100	91
RL Voltage	-	120
RL Amperage	-	NA
Total ESP	0.5	0.33"

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	100W	NL
Motor Rpm	850	NL
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	NA
Service Factor	-	NL

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Project: Rivermaid Trading Co (Lodi, CA)

System/Unit: FAN - Exhaust



Asset: EF-3

AREA:WOMENS RR

Unit Data		
	Design	Actual
MFG	NA	BROAN
Model Num	NA	L500
Serial Num	-	NA
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	400	372
RL Voltage	-	120
RL Amperage	-	NA
Total ESP	0.5	0.41"

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	232W	NL
Motor Rpm	890	NL
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	NL
Service Factor	-	NL

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Project: Rivermaid Trading Co (Lodi, CA)

System/Unit: FAN - Exhaust



Asset: EF-4

AREA:MENS RR

Unit Data		
	Design	Actual
MFG	NA	BROAN
Model Num	NA	L500
Serial Num	-	NA
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	400	368
RL Voltage	-	120
RL Amperage	-	NA
Total ESP	0.5	0.51"

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	232W	NL
Motor Rpm	890	NL
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	NA
Service Factor	-	NL

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Project: Rivermaid Trading Co (Lodi, CA)

System/Unit: FAN - Exhaust



Asset: IEF-1

AREA:ELECT/UTILITY

Unit Data		
	Design	Actual
MFG	NA	BROAN
Model Num	NA	L500LNA
Serial Num	-	NA
Type	INLINE EXHAUST	INLINE

Test Data		
	Design	Actual
CFM	450	411
Fan RPM	890	815
RL Voltage	-	120
RL Amperage	-	1.5
Suction ESP	-	ATM
Discharge ESP	-	0.35"
Total ESP	0.5	0.35"
Brake Horse Power	-	N/A

Motor Data		
	Design	Actual
Motor MFG	-	BROAD-OCEAN MOTOR
Frame	-	NL
Horsepower	232W	NL
Motor Rpm	-	815
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	1.7
Service Factor	-	NL

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National TAB

Project: Rivermaid Trading Co (Lodi, CA)

System/Unit: FAN - Exhaust



Asset: PF-1

AREA:DISTRIBUTION

Unit Data		
	Design	Actual
MFG	NA	PENNBARRY
Model Num	NA	LWP24L1
Serial Num	-	B24A060377
Type	WALL PROP	WALL PROP

Test Data		
	Design	Actual
CFM	6000	5732
RL Voltage	-	488/489/488
RL Amperage	-	1.02
Total ESP	0.25	0.19"

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR RELIANCE
Frame	-	56
Horsepower	1	0.75
Motor Rpm	850	1765
Phase	3	3
Voltage (rated)	480	460
Amperage (rated)	-	1.14
Service Factor	-	1.25

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National TAB

Project: Rivermaid Trading Co (Lodi, CA)
System/Unit: FAN - Exhaust



Asset: PF-2

AREA:DISTRIBUTION

Unit Data		
	Design	Actual
MFG	NA	PENNBARRY
Model Num	NA	LWP24L1
Serial Num	-	B24A060380
Type	WALL PROP	WALL PROP

Test Data		
	Design	Actual
CFM	6000	5531
RL Voltage	-	480
RL Amperage	-	1.04/1.05/1.06
Total ESP	0.25	0.22"

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR RELIANCE
Frame	-	56
Horsepower	1	3/4
Motor Rpm	850	1765
Phase	3	3
Voltage (rated)	480	480
Amperage (rated)	-	1.14
Service Factor	-	1.25

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National TAB

Project: Rivermaid Trading Co (Lodi, CA)
System/Unit: FAN - Exhaust



Asset: PF-3

AREA: DISTRIBUTION

Unit Data		
	Design	Actual
MFG	NA	PENNBARRY
Model Num	NA	LWP24L1
Serial Num	-	B24A060378
Type	WALL PROP	WALL PROP

Test Data		
	Design	Actual
CFM	6000	5899
RL Voltage	-	488/487/488
RL Amperage	-	1.10/1.11/1.09
Total ESP	0.25	0.23"

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR RELIANCE
Frame	-	56
Horsepower	1	3/4
Motor Rpm	850	1765
Phase	3	3
Voltage (rated)	480	460
Amperage (rated)	-	1.14
Service Factor	-	1.25

Completed By: Zack Eismin on 07/02/2024

National TAB

Project: Rivermaid Trading Co (Lodi, CA)
System/Unit: FAN - Exhaust



Asset: PF-4

AREA:

Unit Data		
	Design	Actual
MFG	NA	PENNBARRY
Model Num	NA	LWP24L1
Serial Num	-	NL
Type	-	WALL PROP

Test Data		
	Design	Actual
CFM	6000	5782
RL Voltage	-	488/488/489
RL Amperage	-	1.10/1.10/1.11
Total ESP	-	0.22"

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR RELIANCE
Frame	-	56
Horsepower	-	3/4
Motor Rpm	-	1765
Phase	-	3
Voltage (rated)	-	460
Amperage (rated)	-	1.14
Service Factor	-	1.25

Completed By: Zack Eismin on 07/02/2024

National TAB

Project: Rivermaid Trading Co (Lodi, CA)

System/Unit: FAN - Exhaust



Asset: PF-5

AREA:DISTRIBUTION

Unit Data		
	Design	Actual
MFG	NA	PENNBARRY
Model Num	NA	LWP24L1
Serial Num	-	NL
Type	WALL PROP	WALL PROP

Test Data		
	Design	Actual
CFM	6000	5935
RL Voltage	-	488/489/488
RL Amperage	-	1.12/1.11/1.12
Total ESP	0.25	0.24"

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR RELIANCE
Frame	-	56
Horsepower	1	3/4
Motor Rpm	850	1765
Phase	3	3
Voltage (rated)	480	460
Amperage (rated)	-	1.14
Service Factor	-	1.25

Completed By: Zack Eismin on 07/02/2024

National TAB

Project: Rivermaid Trading Co (Lodi, CA)

System/Unit: FAN - Exhaust



Asset: RF-1

AREA:MECH RM

Unit Data		
	Design	Actual
MFG	NA	PENNBARRY
Model Num	NA	SQX270-0091
Serial Num	-	B24AR45521
Type	INLINE RETURN	INLINE

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR RELIANCE
Frame	-	145T
Horsepower	1	1.5
Motor Rpm	-	1770
Phase	3	3
Voltage (rated)	480	460
Amperage (rated)	-	2.3
Service Factor	-	1.15

Test Data		
	Design	Actual
CFM	5500	5433
Fan RPM	717	NA
RL Voltage	-	488/489/487
RL Amperage	-	1.86/1.91/1.93
Suction ESP	-	-0.56"
Discharge ESP	-	0.12"
Total ESP	0.5	0.68"
Brake Horse Power	-	1.25

Completed By: Zack Eismin on 07/02/2024

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	TSI EBT731 EBT732117009	9/7/2023	9/7/2024
	AIR VELOCITY INSTRUMENT	50 fpm to 3900 fpm	+/- 5 % +/- 7 fpm	TSI EBT731 EBT732117009	9/7/2023	9/7/2024
	DIRECT HOOD READING	100 cfm to 2000 cfm	+/- 5 % +/- 7 cfm	TSI EBT731 EBT732117009	9/7/2023	9/7/2024
TEMPERATURE	AIR METER	-20 F to 240 F	+/- .5 % 2 F	Cooper SRH77A S/N 100516003	9/29/2023	9/29/2024
	AIR PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper SRH77A S/N 100516003	9/29/2023	9/29/2024
	IMMERSION METER	-20 F to 240 F	+/- .5 % 2 F	Cooper SRH77A S/N 100516003	9/29/2023	9/29/2024
	IMMERSION PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper SRH77A S/N 100516003	9/29/2023	9/29/2024
	CONTACT METER	-20 F to 240 F	+/- .5 % 2 F	Cooper SRH77A S/N 100516003	9/29/2023	9/29/2024
	CONTACT PROBE	-20 F to 240 F	+/- .5 % 2 F	Cooper SRH77A S/N 100516003	9/29/2023	9/29/2024
HUMIDITY	HUMIDITY PROBE	10 % RH to 90 % RH	3% of reading	Cooper SRH77A S/N 100516003	9/29/2023	9/29/2024
ELECTRICAL	VOLTAGE MEASUREMENT	0 VAC to 600 VAC	2 % reading +/- 5 digits	Klein Tools CL800 S/N 1220C-C1	9/29/2023	9/29/2024
	AMPERAGE MEASUREMENT	0 Amperes to 100 Amperes	2 % reading +/- 5 digits	Klein Tools CL800 S/N 1220C-C1	9/29/2023	9/29/2024
ROTATION	ROTATION MEASUREMENT	60 rpm to 5000 rpm	2 % reading 2 rpm	Shimpo DT 207Lp S/N D1690029R	9/29/2023	9/29/2024



National TAB

Testing, Adjusting, and Balancing Equipment



Report of Calibration

Kansas City Calibration Lab., Inc.
8847 Long Street
Lenexa, Kansas 66215

Telephone: (913) 541-0629 Internet: www.kccl.com Email: service@kccl.com

UNIT UNDER TEST: TSI EBT731 Differential Digital Meter	TEST RESULT: PASS
SERIAL NUMBER: EBT732117009	PERFORMED ON: 9/7/2023
ASSET NUMBER: EBT732117009	DATA TYPE: FOUND-LEFT
PROCEDURE NAME: ADM-XXX / EBT-XXX-XX 2.0% Reading: 1 Yr Cert CPC	TEMPERATURE: 23.8°C
PROCEDURE REV.: 20210930C	HUMIDITY: 44%
CALIBRATED BY: Bart Schwartz	BAROMETRIC: 28.93 inHg
P.O. NUMBER:	Recalibration Date September 07, 2024
CUSTOMER: National TAB 1126 Swift Street NKC, MO 64116	Calibration Number: 0007333
Cal Seals Intact: Yes	Previous Calibration Date: August 12, 2022

K.C. Calibration Lab., Inc. certifies that the above listed instrument meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). This calibration is traceable to the International System of Units (SI), through National Metrology Institutes (NIST, PTB NRC NPL, etc), radiometric techniques, or natural physical constants. This calibration complies with MIL-STD-45662A and ANSI/NCSL Z540-1-1994.

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Note: Any Test Uncertainty Ratio (TUR) that is less than four to one will appear under the "TUR" heading on the data record. If the TUR meets or exceeds four to one, the field is left blank.

REMARKS:

Asset #	Description	Cal Date	Due Date
41001AR6	Mensor CPC6050 Low & Medium Pressure Calibrator	3/15/2023	3/15/2024

Test Description	True Value	Test Result	Lower Limit	Upper Limit	Units	TUR
Vertical Accuracy: ±2.0%±0.001 Reading INH2O @ 60"						
Reference Documents: Mfr. Manual						
Internal Barometric Reading: 28.80 inHg						
Version Number is 1.11.1						
** Connector						
0.000 inH2O	0.000	-0.0005	-0.0100	0.0100	inH2O	Pass
5.000 inH2O	5.000	5.1000	4.9000	5.1000	inH2O	Pass
10.000 inH2O	10.000	10.0300	9.8000	10.2000	inH2O	Pass
14.900 inH2O	14.900	14.9100	14.6020	15.1980	inH2O	Pass
0.000 inH2O	0.000	-0.0003	-0.0100	0.0100	inH2O	Pass
-5.000 inH2O	-5.000	-5.0100	-5.1000	-4.9000	inH2O	Pass
-10.000 inH2O	-10.000	-10.0200	-10.2000	-9.8000	inH2O	Pass
-14.900 inH2O	-14.900	-14.9600	-15.1980	-14.6020	inH2O	Pass

Report of Calibration for SERIAL NUMBER: EBT732117009 ASSET NUMBER: EBT732117009

Printed On: Thursday, September 7, 2023 Page 1 of 2

Test Results indicate the following: Found-Left: Unit was left as found. As-Left: Unit was left after adjustments.

Test Results	True Value	Test Result	Lower Limit	Upper Limit	Units	TUR
** Connector						
0.000 inH2O	0.000	-0.0001	-0.0100	0.0100	inH2O	Pass
5.000 inH2O	5.000	4.9800	4.9000	5.1000	inH2O	Pass
10.000 inH2O	10.000	10.0300	9.8000	10.2000	inH2O	Pass
14.900 inH2O	14.900	14.9100	14.6020	15.1980	inH2O	Pass
0.000 inH2O	0.000	0.0001	-0.0100	0.0100	inH2O	Pass
-5.000 inH2O	-5.000	-5.0100	-5.1000	-4.9000	inH2O	Pass
-10.000 inH2O	-10.000	-10.0300	-10.2000	-9.8000	inH2O	Pass
-14.900 inH2O	-14.900	-14.9200	-15.1980	-14.6020	inH2O	Pass

*****END OF CALIBRATION*****

K.C. Calibration Labs Seal

Signature: *Bart Schwartz*
Bart A. Schwartz, Engineer in Charge

Report of Calibration for SERIAL NUMBER: EBT732117009 ASSET NUMBER: EBT732117009

Printed On: Thursday, September 7, 2023 Page 2 of 2

Test Results indicate the following: Found-Left: Unit was left as found. As-Left: Unit was left after adjustments.

Report of Calibration

Kansas City Calibration Lab., Inc.
8847 Long Street
Lenexa, Kansas 66215

Telephone: (913) 541-0629 Internet: www.kccl.com Email: service@kccl.com

UNIT UNDER TEST: Shimpo DT-2077p Tachometer	TEST RESULT: PASS
SERIAL NUMBER: D1690029R	PERFORMED ON: 9/29/2023
ASSET NUMBER: D1690029R	DATA TYPE: FOUND-LEFT
PROCEDURE NAME: Shimpo DT-20xx: 1 Year Certification	TEMPERATURE: 24.9°C
PROCEDURE REV.: 20210818C	HUMIDITY: 47%
CALIBRATED BY: Bart Schwartz	Recalibration Date September 29, 2024
P.O. NUMBER:	Calibration Number: 0007544
CUSTOMER: National TAB 1126 Swift Street NKC, MO 64116	Previous Calibration Date: August 11, 2022
Cal Seals Intact: Yes	

K.C. Calibration Lab., Inc. certifies that the above listed instrument meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). This calibration is traceable to the International System of Units (SI), through National Metrology Institutes (NIST, PTB NRC NPL, etc), radiometric techniques, or natural physical constants. This calibration complies with MIL-STD-45662A and ANSI/NCSL Z540-1-1994.

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REMARKS:

Asset #	Description	Cal Date	Due Date
MYS900813	Keysight Technologies 33511B Function/Arb Waveform Generator	12/1/2022	12/1/2023

Test Description	True Value	Test Result	Lower Limit	Upper Limit	Units	TUR
RPM						
10.00 RPM	10.0	10	9	11	RPM	Pass
100.00 RPM	100.0	100	99	101	RPM	Pass
1000.0 RPM	1000.0	1000	999	1001	RPM	Pass
10,000.0 RPM	10000.0	10000	9998	10002	RPM	Pass
99,900.0 RPM	99900.0	99902	99893	99907	RPM	Pass

Report of Calibration for SERIAL NUMBER: D1690029R ASSET NUMBER: D1690029R

Printed On: Friday, September 29, 2023 Page 1 of 2

Test Results indicate the following: Found-Left: Unit was left as found. As-Left: Unit was left after adjustments.

Report of Calibration

Kansas City Calibration Lab., Inc.
8847 Long Street
Lenexa, Kansas 66215

Telephone: (913) 541-0629 Internet: www.kccl.com Email: service@kccl.com

UNIT UNDER TEST: Cooper Instrument SRH77A Digital Thermometer	TEST RESULT: PASS
SERIAL NUMBER: 100516003	PERFORMED ON: 9/29/2023
ASSET NUMBER: 100516003	DATA TYPE: FOUND-LEFT
PROCEDURE NAME: Met Temp NIST(SI) 1 Year	TEMPERATURE: 24.1°C
PROCEDURE REV.:	HUMIDITY: 46%
CALIBRATED BY: Bart Schwartz	Recalibration Date September 29, 2024
P.O. NUMBER:	Calibration Number: 00077543
CUSTOMER: National TAB 1126 Swift Street NKC, MO 64116	Previous Calibration Date: August 12, 2022
Cal Seals Intact: Yes	

K.C. Calibration Lab., Inc. certifies that the above listed instrument meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). This calibration is traceable to the International System of Units (SI), through National Metrology Institutes (NIST, PTB NRC NPL, etc), radiometric techniques, or natural physical constants. This calibration complies with MIL-STD-45662A and ANSI/NCSL Z540-1-1994.

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REMARKS:

Asset #	Description	Cal Date	Due Date
2659119	Hart Scientific 1523 Single Chan Reference Thermometer	1/9/2023	1/9/2024
905040	Burns Engineering 5615 Platinum Resistance Thermometer	2/8/2023	2/8/2024
DWS18	Fluke 518 Dry-Block Calibrator	8/28/2023	8/28/2024
MB7103	Hart Scientific 7103 Micro Bath Calibrator	12/8/2022	12/8/2023

Test Description	True Value	Test Result	Lower Limit	Upper Limit	Units	TUR
1075 General Purpose Puncture Probe						
Accuracy ±1.3 deg F / ±0.2 deg C or ±0.5% of reading:						
-10.00	F	-10.08	-8.70	1.38		
32.00	F	32.34	32.70	0.36		
122.00	F	122.71	121.80	-0.91		
212.00	F	211.90	211.10	-0.80		
280.00	F	279.96	280.70	0.74		
4011 Pipe Strip Probe						
Accuracy ±2% Range -25° to 212°F / -32° to 100°C						
0.00	F	0.27	2.10	1.83		
75.00	F	75.25	75.10	-0.15		
150.00	F	150.31	150.00	-0.31		

Report of Calibration for SERIAL NUMBER: 100516003 ASSET NUMBER: 100516003

Printed On: Friday, September 29, 2023 Page 1 of 2

Test Results indicate the following: Found-Left: Unit was left as found. As-Left: Unit was left after adjustments.



National TAB

Testing, Adjusting, and Balancing Equipment



Test Description	True Value	Test Result	Lower Limit	Upper Limit	Units	TUR
5028 Slim Humidity Probe						
Accuracy ±2% from 20 to 80%RH, ±3% below 20 and ±						
10.0 %RH @ 23.0°C	%RH	10.0	16	6.0		
25.0 %RH @ 23.0°C	%RH	25.0	30	5.0		
50.0 %RH @ 23.0°C	%RH	50.0	53	3.0		
75.0 %RH @ 23.0°C	%RH	75.0	77	2.0		
23.0°C @ 10.0 %RH	C	23.0	23.2	0.2		
23.0°C @ 25.0 %RH	C	23.0	23.2	0.2		
23.0°C @ 50.0 %RH	C	23.0	23.2	0.2		
23.0°C @ 75.0 %RH	C	23.0	23.1	0.1		

*****END OF CALIBRATION*****

Signed: *Bart A. Schwartz*
Bart A. Schwartz, Engineer in Charge

Report of Calibration for SERIAL NUMBER: 100516003 ASSET NUMBER: 100516003 Page 2 of 2

Printed On: Friday, September 29, 2023
Test Results indicate the following: Found-Left: Unit was left as found. As-Left: Unit was left after adjustments.

Report of Calibration

Kansas City Calibration Lab., Inc.
8847 Long Street
Lenexa, Kansas 66215

Telephone: (913) 541-0629 Internet: www.kccl.com Email: service@kccl.com

UNIT UNDER TEST:	Klein Tools CL800 True RMS Digital Clampmeter	TEST RESULT:	PASS
SERIAL NUMBER:	1220C-C1	PERFORMED ON:	9/29/2023
ASSET NUMBER:	1220C-C1	DATA TYPE:	FOUND-LEFT
PROCEDURE NAME:	Klein Tools CL800 : (1 year) CAL VER / 5520	TEMPERATURE:	24.9°C
PROCEDURE REV.:	20230928	HUMIDITY:	46 %
CALIBRATED BY:	Bart Schwartz		
P.O. NUMBER:		Recalibration Date	September 29, 2024
CUSTOMER:	National TAB 1126 Swift Street NKC, MO 64116	Calibration Number:	0007542
		Previous Calibration Date:	

Cal Seals Intact: Unknown

K.C. Calibration Lab., Inc. certifies that the above listed instrument meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). This calibration is traceable to the International System of Units (SI), through National Metrology Institutes (NIST, PTB, NRC, NPL, etc), radiometric techniques, or natural physical constants. This calibration complies with MIL-STD-45662A and ANSI/NCISL Z540-1-1994.

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REMARKS:

Asset #	Description	Cal Date	Due Date
3277903	Fluke 5522A Multi-Product Calibrator	11/30/2022	11/30/2023

Test Description	True Value	Test Result	Lower Limit	Upper Limit	Units	TUR
Root Difference Square guardbanding method used						
AC VOLTS TESTS						
6 V Range						
5.900 V @ 60 Hz	5.9000	5.897	5.807	5.994	V	Pass
60 V Range						
59.00 V @ 60 Hz	59.0000	58.97	58.24	59.76	V	Pass
600 V Range						
590.0 V @ 60 Hz	590.000	589.7	582.4	597.6	V	Pass
1000 V Range						
990.0 V @ 60 Hz	990.000	991.0	970.1	1009.9	V	Pass
DC VOLTS TESTS						
600 mV Range						
600.0 mV	600.000	599.8	593.2	606.8	m V	Pass

Report of Calibration for SERIAL NUMBER: 1220C-C1 ASSET NUMBER: 1220C-C1 Page 1 of 3

Printed On: Friday, September 29, 2023
Test Results indicate the following: Found-Left: Unit was left as found. As-Left: Unit was left after adjustments.

Test Description	True Value	Test Result	Lower Limit	Upper Limit	Units	TUR
-600.0 mV	-600.00	-599.9	-606.8	-593.2	m V	Pass
6 V Range						
6.000 V	6.0000	5.997	5.937	6.063	V	Pass
-6.000 V	-6.0000	-5.995	-6.063	-5.937	V	Pass
60 V Range						
60.00 V	60.0000	59.96	59.37	60.63	V	Pass
600 V Range						
600.0 V	600.0000	599.6	593.7	606.3	V	Pass
1000 V Range						
1000.0 V	1000.0000	1001	985	1015	V	Pass
-1000.0 V	-1000.0000	-1001	-1015	-985	V	Pass
CONTINUITY TESTS						
Audible Indicator ON @ 10 ohms						
Audible Indicator OFF @ 51 ohms						
RESISTANCE TESTS						
600 Ohm Range						
600.0 Ohm	600.000	601.2	590.5	609.5	Ω	Pass
6 kOhm Range						
6.000 kOhm	6.00000	6.000	5.905	6.095	k Ω	Pass
60 kOhm Range						
60.00 kOhm	60.0000	59.99	59.05	60.95	k Ω	Pass
600 kOhm Range						
600.0 kOhm	600.0000	599.9	590.5	609.5	k Ω	Pass
6 MOhm Range						
6.000 MOhm	6.00000	5.993	5.905	6.095	M Ω	Pass
60 MOhm Range						
60.00 MOhm	60.00000	59.47	58.70	61.30	M Ω	Pass
DIODE CHECK TESTS						
Diode Voltage						
FREQUENCY TESTS						
9.00 Hz @ 8 V						
9.00 Hz @ 8 V	9.0000	8.999	8.905	9.095	Hz	Pass
90.00 Hz @ 8 V						
90.00 Hz @ 8 V	90.0000	89.99	89.05	90.95	Hz	Pass
900.0 Hz @ 8 V						
900.0 Hz @ 8 V	900.0000	900.0	890.5	909.5	Hz	Pass
9.000 kHz @ 8 V						
9.000 kHz @ 8 V	9.00000	9.000	8.905	9.095	k Hz	Pass
90.00 kHz @ 8 V						
90.00 kHz @ 8 V	90.00000	90.000	89.05	90.95	k Hz	Pass
100.0 kHz @ 8 V						
100.0 kHz @ 8 V	100.00000	100.000	98.5	101.5	k Hz	Pass
DUTY CYCLE						
50.0 % @ 1 kHz						
50.0 % @ 1 kHz	50.000	50.3	49.3	50.8	%	Pass
CAPACITANCE TESTS						
60 nF Range						
59.00 nF	59.0000	59.96	55.70	62.30	n F	Pass
600 nF Range						
590.0 nF	590.0000	597.1	571.8	608.2	n F	Pass
6 uF Range						
5.900 uF	5.90000	5.854	5.718	6.082	u F	Pass
60 uF Range						
59.00 uF	59.00000	58.87	57.18	60.82	u F	Pass

Report of Calibration for SERIAL NUMBER: 1220C-C1 ASSET NUMBER: 1220C-C1 Page 2 of 3

Printed On: Friday, September 29, 2023
Test Results indicate the following: Found-Left: Unit was left as found. As-Left: Unit was left after adjustments.

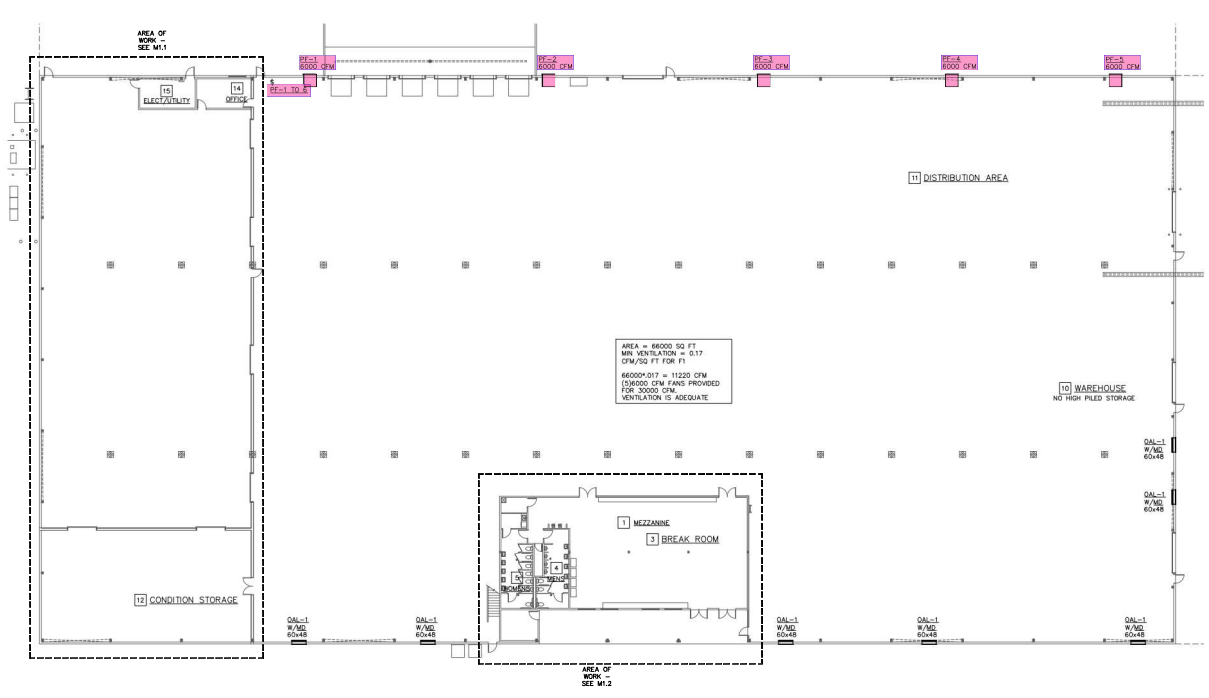
Test Description	True Value	Test Result	Lower Limit	Upper Limit	Units	TUR
6000 uF Range						
5900 uF	5900.000	590.6	560.0	620.0	u F	Pass
TEMPERATURE F TESTS						
5900 uF						
5900 uF	5900.000	5957	5600	6200	u F	Pass
-14 °F						
-14 °F	-14.0	-10	-23	-5	°F	Pass
100 °F						
100 °F	100.0	102	94	106	°F	Pass
500 °F						
500 °F	500.0	502	490	510	°F	Pass
900 °F						
900 °F	900.0	902	873	927	°F	Pass
TEMPERATURE C TESTS						
-25 °C						
-25 °C	-25.0	-23	-31	-20	°C	Pass
100 °C						
100 °C	100.0	102	96	104	°C	Pass
350 °C						
350 °C	350.0	351	344	357	°C	Pass
500 °C						
500 °C	500.0	501	485	515	°C	Pass
AC CURRENT TESTS						
60 A Range						
50.00 A @ 60 Hz	50.0000	49.60	48.92	51.08	A	Pass
50.00 A @ 400 Hz	50.0000	50.00	48.92	51.08	A	Pass
400 A Range						
500.0 A @ 60 Hz	500.0000	494.2	489.5	510.5	A	Pass
500.0 A @ 100 Hz	500.0000	494.4	489.5	510.5	A	Pass
60 A Range						
50.00 A	50.0000	49.20	48.92	51.08	A	Pass
600 A Range						
300.0 A	300.0000	296.5	293.5	306.5	A	Pass
590.0 A	590.0000	582.7	577.7	602.3	A	Pass

*****END OF CALIBRATION*****

Signed: *Bart A. Schwartz*
Bart A. Schwartz, Engineer in Charge

Report of Calibration for SERIAL NUMBER: 1220C-C1 ASSET NUMBER: 1220C-C1 Page 3 of 3

Printed On: Friday, September 29, 2023
Test Results indicate the following: Found-Left: Unit was left as found. As-Left: Unit was left after adjustments.



HVAC OVERALL FLOOR PLAN

1/16" = 1'-0"

JOB # 2022-223
 GDMO ENGINEERING, INC.
 Mechanical and Safety Engineers
 212 W Pine St. Ste 4
 Lodi, Ca 95242
 Ph: 209-367-0899
 Fax: 209-367-0898
 E-mail: gdmengrnc@sbcglobal.net

NO.	REVISION	BY
1	PLAN CHECK	MS
2	PLAN CHECK	MS
3	PLAN CHECK	MS

MIKE SMITH ENGINEERING, INC.
 4 ROBERT MANN STREET
 CALIFORNIA
 PHONE: (209) 364-3330

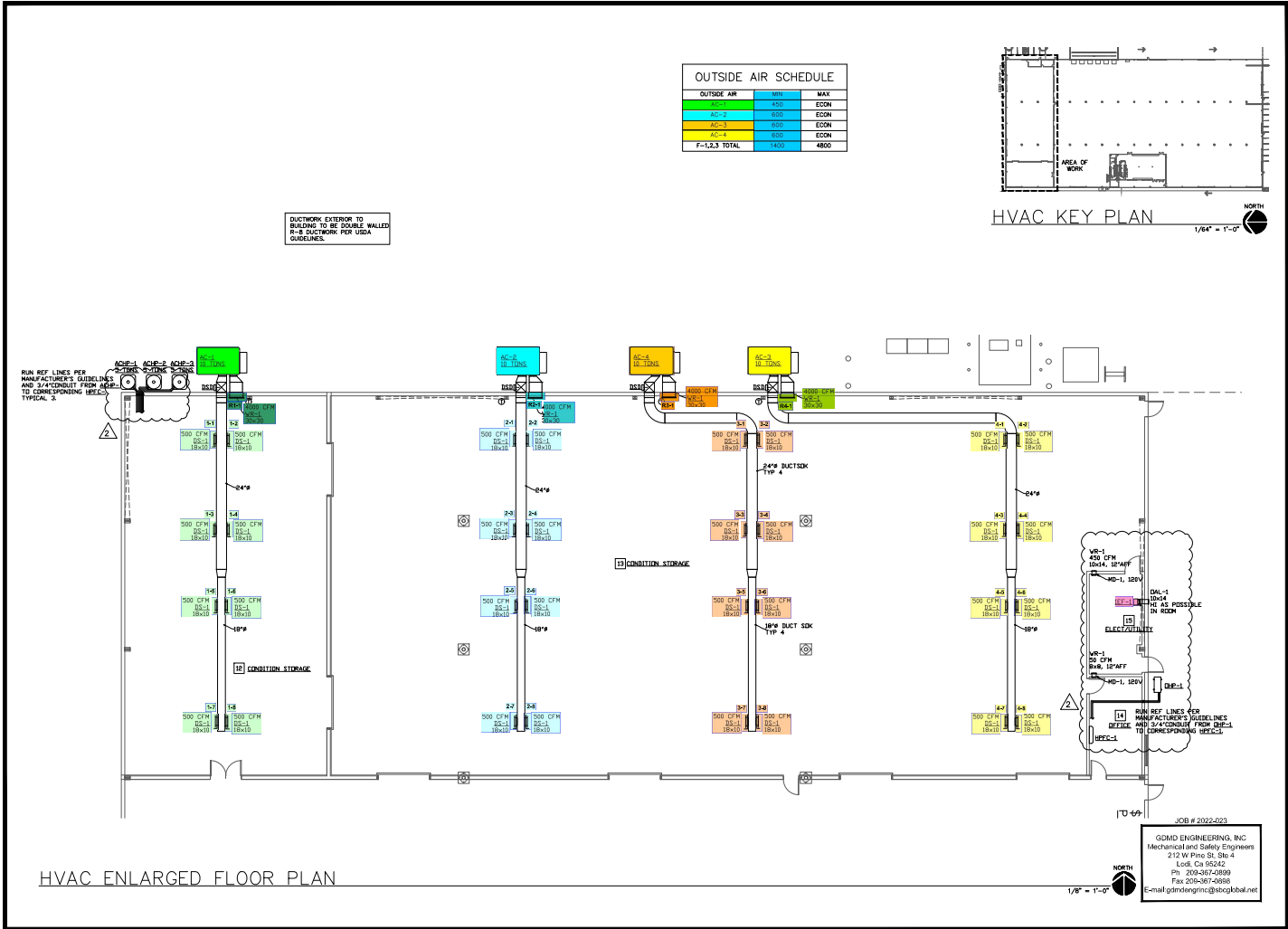
TITLE: HVAC FLOOR PLAN

PROJECT: AG PROCESSING & STORAGE FACILITY FOR RIVERMOUNT TRADING COMPANY
 PROJECT LOCATION: 637 EAST PINE ST. LODI, CA 95240

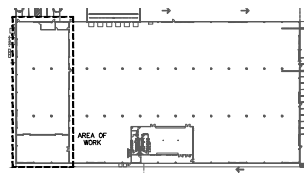
THESE PLANS ARE PREPARED BY AN ENGINEER OR ARCHITECT UNLESS THERE IS A RETIRED SIGNATURE THEREON.

NO.	REVISION	BY
1	ISSUED	MS
2	8/27/2023	MS
3	AS NOTED	MS
4	2/2/23	MS
5	2/2/23	MS

M1.0



OUTSIDE AIR SCHEDULE		
OUTSIDE AIR	MIN	MAX
AC-1	450	ECON
AC-2	600	ECON
AC-3	600	ECON
AC-4	600	ECON
F-1,2,3 TOTAL	1800	4800



DUCTWORK EXTERIOR TO BUILDING TO BE DOUBLE WALLED 5'-6\"/>

RUN REF. LINES PER MANUFACTURER'S GUIDELINES AND 3/4\"/>

RUN REF. LINES PER MANUFACTURER'S GUIDELINES AND 3/4\"/>

NO.	DESCRIPTION	DATE
1	PLAN CHECK	12/15/22
2	PLAN CHECK	8/9/23

MIKE SMITH ENGINEERING, INC.
 4 ROBERT MANN STREET
 COSTA MESA, CALIFORNIA 92626
 PHONE (714) 834-8888

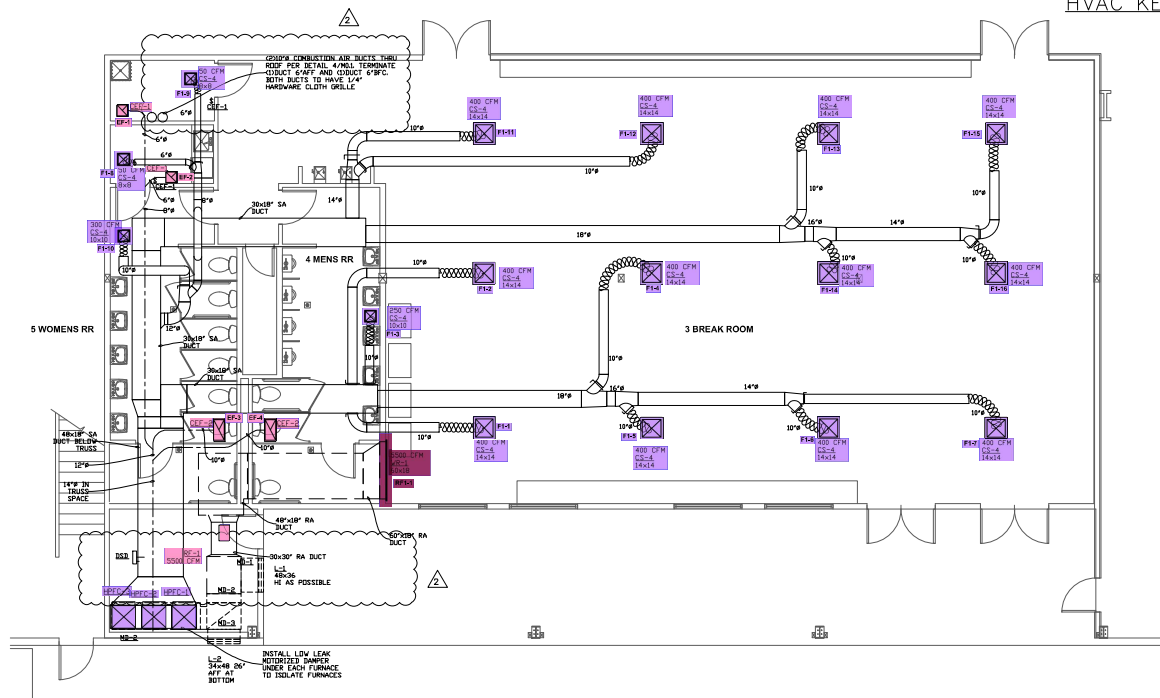
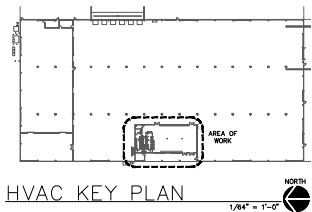
TITLE: HVAC ENLARGED FLOOR PLAN
 PROJECT: AS PROCESSING & STORAGE FACILITY FOR RIVERWALD TRAINING COMPANY
 PROJECT NO. 2022-223
 212 W. PINE ST. STE. 4
 Lodi, CA 95242

AS PROCESSING & STORAGE FACILITY FOR RIVERWALD TRAINING COMPANY
 PROJECT NO. 2022-223
 212 W. PINE ST. STE. 4
 Lodi, CA 95242

THESE PLANS ARE PREPARED BY AN ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF CALIFORNIA. THESE PLANS ARE NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF GDMO ENGINEERING, INC.

JOB # 2022-223
 GDMO ENGINEERING, INC.
 Mechanical and Safety Engineers
 212 W. Pine St. Ste. 4
 Lodi, CA 95242
 Ph: 209-267-0899
 Fax: 209-267-7086
 E-mail: gdmoe@engr.com

OUTSIDE AIR SCHEDULE		
OUTSIDE AIR	MIN	MAX
AC-1	1000	EQDN
AC-2	600	EQDN
AC-3	600	EQDN
AC-4	600	EQDN
F-L.S.J TOTAL	1800	4800



FLOOR PLAN

JOB # 2022-223
 GDMO ENGINEERING, INC.
 Mechanical and Safety Engineers
 212 W Pine St. Ste 4
 Los, Ca 95242
 Ph: 209-267-0899
 Fax: 209-267-74986
 E-mail: gdmengrnc@sbcbal.net

NO	REVISION	DATE
1	PLAN CHECK	12/21/22
2	PLAN CHECK	8/9/23

MIKE SMITH ENGINEERING, INC.
 4 ROBERT MANN STREET
 CALIFORNIA, CA 95008
 PHONE: (209) 334-3330

TITLE: HVAC ENLARGED FLOOR PLAN
 BREAK AND RESTROOMS

PROJECT: AG PROCESSING & STORAGE FACILITY CORP.
 RIVERMOUND TRAINING COMPANY
 PROJECT LOCATION: 6337 EAST PINE ST.
 LOD, CA 95240



NO	REVISION	DATE
1	ISSUED	8/23/2023
2	AS NOTED	8/23/2023
3	REVISED	8/23/2023

M1.2

