

Report By:

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Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 07/07/2023

PROJECT
07-03-23 MENDOCINO FARMS - GLENDALE,
CA

769 AMERICANA WAY

GLENDALE, CA 91210

Client

Chill - Factor Mechanical

PO BOX 5756

SAN DIEGO, CA 92165

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Project: 07-03-23 MENDOCINO FARMS - GLENDALE, CA

Table Of Contents

Section	Page #
Summary	3
AHU/RTU	4
FAN - Exhaust	12
FAN - Supply	15
Kitchen Hood Type I	16
GRD Layout	17

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Project: 07-03-23 MENDOCINO FARMS - GLENDALE, CA

System/Unit: AHU/RTU



Asset: FCU1

AREA:DINING

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	31R0058930P915
Model Num	TPEFY054	TPEFY054MA144A
Type	FCU	FCU
Configuration	VERTICAL	HORIZONTAL
Num OA Filters 1	-	10"
Num Final Filter 1	-	2
Final Filter Size 1	-	14X20X2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	0.402
Motor Rpm	-	NL
Phase	3	1
Rated Voltage	208	208
Rated Amperage	-	3.09

Drive Data		
	Design	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	1400	1473
SF RPM	-	NA
RA CFM	1100	1152
OA CFM	300	321
RL Voltage	-	210
RL Amperage	-	1.33
SF Rotation	-	CCW
RA Damper Position	-	N/A
Min OA Damper Position	-	20%
Min OA Damper Type	-	MOTORIZED
OA Enthalpy Setpt	-	N/A

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.13"
Fan Suction SP	-	-0.21"
Fan Discharge SP	-	0.15"
Total ESP	0.06"	0.28"
Fan Total SP	-	0.36"

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

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AHU/RTU



Diffuser Supply (GRD)

FCU1/DINING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	ORDERING	SR2	22/6	575	1	592	610	610	106.1
SGRD2	ORDERING	SR2	22/6	575	1	757	602	602	104.7
SGRD3	SERVING	CD1	8"	250	1	126	261	261	104.4
Total				1400		1475	1473	1473	105.21%

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Project: 07-03-23 MENDOCINO FARMS - GLENDALE, CA

System/Unit: AHU/RTU



Asset: FCU2

AREA:DINING

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	31R0058830P915
Model Num	TPEFY054	TPEFY054MA144A
Type	FCU	FCU
Configuration	VERTICAL	HORIZONTAL
Num OA Filters 1	-	10"
Num Final Filter 1	-	2
Final Filter Size 1	-	14X20X2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	0.402
Motor Rpm	-	NL
Phase	3	1
Rated Voltage	208	208
Rated Amperage	-	3.09

Drive Data		
	Design	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	1400	1436
SF RPM	-	NA
RA CFM	1100	1125
OA CFM	300	311
RL Voltage	-	210
RL Amperage	-	1.25
SF Rotation	-	CCW
RA Damper Position	-	N/A
Min OA Damper Position	-	25%
Min OA Damper Type	-	MOTORIZED
OA Enthalpy Setpt	-	N/A

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.11"
Fan Suction SP	-	-0.19"
Fan Discharge SP	-	0.15"
Total ESP	0.06"	0.26"
Fan Total SP	-	0.34"

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

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AHU/RTU



Diffuser Supply (GRD)

FCU2/DINING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	DINING	SR1	33/6	467	1.4	389	481	481	103.0
SGRD2	DINING	SR1	33/6	467	1.4	501	493	493	105.6
SGRD3	DINING	SR1	33/6	467	1.4	552	462	462	98.9
Total				1401		1442	1436	1436	102.5%

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Project: 07-03-23 MENDOCINO FARMS - GLENDALE, CA

System/Unit: AHU/RTU



Asset: FCU3

AREA: KITCHEN

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	31R0056130P915
Model Num	TPEFY054	TPEFY054MA144A
Type	FCU	FCU
Configuration	VERTICAL	HORIZONTAL
Num OA Filters 1	-	10"
Num Final Filter 1	-	2
Final Filter Size 1	-	14X20X2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	0.402
Motor Rpm	-	NL
Phase	3	1
Rated Voltage	208	208
Rated Amperage	-	3.09

Drive Data		
	Design	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	1400	1361
SF RPM	-	NA
RA CFM	1150	1119
OA CFM	250	242
RL Voltage	-	210
RL Amperage	-	1.13
SF Rotation	-	CCW
RA Damper Position	-	N/A
Min OA Damper Position	-	20%
Min OA Damper Type	-	MOTORIZED
OA Enthalpy Setpt	-	N/A

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.13"
Fan Suction SP	-	-0.19"
Fan Discharge SP	-	0.17"
Total ESP	0.06"	0.3"
Fan Total SP	-	0.34"

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

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AHU/RTU



Diffuser Supply (GRD)

FCU3/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	KITCHEN	CD1	14"	500	1	478	478	478	95.6
SGRD2	KITCHEN	CD1	14"	500	1	491	491	491	98.2
SGRD3	KITCHEN	CD1	14"	400	1	392	392	392	98.0
Total				1400		1361	1361	1361	97.21%

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Project: 07-03-23 MENDOCINO FARMS - GLENDALE, CA

System/Unit: AHU/RTU



Asset: FCU4

AREA:KITCHEN

Unit Data		
	Design	Actual
MFG	TRANE	TRANE
Serial Num	-	31R0058730P915
Model Num	TPEFY054	TPEFY054MA144A
Type	FCU	FCU
Configuration	VERTICAL	HORIZONTAL
Num OA Filters 1	-	10"
Num Final Filter 1	-	2
Final Filter Size 1	-	14X20X2

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	0.402
Motor Rpm	-	NL
Phase	3	3
Rated Voltage	208	230
Rated Amperage	-	3.09

Drive Data		
	Design	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	1400	1406
SF RPM	-	NA
RA CFM	1150	1161
OA CFM	250	245
RL Voltage	-	209
RL Amperage	-	1.21"
SF Rotation	-	CCW
RA Damper Position	-	N/A
Min OA Damper Position	-	20%
Min OA Damper Type	-	MOTORIZED
OA Enthalpy Setpt	-	N/A

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.14"
Fan Suction SP	-	0.21"
Fan Discharge SP	-	0.17"
Total ESP	0.06"	0.31"
Fan Total SP	-	0.38"

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

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AHU/RTU



Diffuser Supply (GRD)

FCU4/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	KITCHEN	CD1	14"	450	1	476	476	476	105.8
SGRD2	KITCHEN	CD1	14"	450	1	469	469	469	104.2
SGRD3	HOOD 1	ACPSP	8"	500	5.8	461	461	461	92.2
Total				1400		1406	1406	1406	100.43%

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Project: 07-03-23 MENDOCINO FARMS - GLENDALE, CA

System/Unit: FAN - Exhaust



Asset: EF-A1

AREA:

Unit Data		
	Design	Actual
MFG	PANASONIC	GREENHECK
Model Num	FV-0511VQ1	SP-A200-QD
Serial Num	-	22042329
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Frame	-	NL
Horsepower	7.2W	NL
Motor Rpm	-	NL
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	0.46
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	75	71
Fan RPM	-	SINGLE SPEED
Fan Rotation	-	SINGLE SPEED
Motor RPM	-	SINGLE SPEED
System SetPt	-	SINGLE SPEED
RL Voltage	-	120
RL Amperage	-	0.42
Total ESP	0.25"	NA
Fan Inlet SP	-	NA
Fan Discharge SP	-	ATM

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Project: 07-03-23 MENDOCINO FARMS - GLENDALE, CA

System/Unit: FAN - Exhaust



Asset: EF-B1

AREA:RESTROOM

Unit Data		
	Design	Actual
MFG	PANASONIC	GREENHECK
Model Num	FV-0511VQ1	SP-A200-QD
Serial Num	-	22099216
Type	CEILING	CEILING
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Frame	-	NL
Horsepower	7.2W	NL
Motor Rpm	-	NL
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	0.46
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	75	73
Fan RPM	-	SINGLE SPEED
Fan Rotation	-	SINGLE SPEED
Motor RPM	-	SINGLE SPEED
System SetPt	-	SINGLE SPEED
RL Voltage	-	120
RL Amperage	-	0.45
Total ESP	0.25"	NA
Fan Inlet SP	-	NA
Fan Discharge SP	-	NA

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Project: 07-03-23 MENDOCINO FARMS - GLENDALE, CA

System/Unit: FAN - Exhaust



Asset: PCU1

AREA:COOKLINE

Unit Data		
	Design	Actual
MFG	NA	SPRING AIR
Model Num	NA	KES-ISH
Serial Num	-	23A0
Type	-	PCU
Configuration	-	HORIZONTAL

Test Data		
	Design	Actual
CFM	2250	3831
Fan Rotation	-	CW
RL Voltage	-	208/207/208
RL Amperage	-	40.5/41.1/40.1

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR RELIANCE
Frame	-	215T
Horsepower	-	10
Motor Rpm	-	1770
Phase	-	3
Voltage (rated)	-	230/460
Amperage (rated)	-	25/12.5
Service Factor	-	1.15

Drive Data		
	Design	Actual
Motor Sheave Size	-	2BK110H
Motor Bore Size	-	1-5/16"
Motor Sheave SetPt	-	FIXED
Fan Sheave Size	-	6"
Fan Sheave Bore	-	1-5/16"
Belt CL Distance	-	19.5"
Num of Belts	-	2
Belt Size	-	BX63

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Project: 07-03-23 MENDOCINO FARMS - GLENDALE, CA

System/Unit: FAN - Supply



Asset: MUA1

AREA:COOKLINE

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	A1-15D	A2-20D
Serial Num	-	5727845
Type	MUA	MUA
Configuration	VERTICAL	HORIZONTAL

Motor Data		
	Design	Actual
Motor MFG	-	TECO
Frame	-	145T
Horsepower	1.5	1
Motor Rpm	-	1150
Phase	3	3
Voltage (rated)	208	230/460
Amperage (rated)	-	3.44/1.72
Service Factor	-	1.15

Drive Data		
	Design	Actual
Motor Sheave Size	-	DD
Motor Bore Size	-	DD
Fan Sheave Size	-	DD
Fan Sheave Bore	-	DD
Belt CL Distance	-	DD
Num of Belts	-	DD
Belt Size	-	DD
Belt Alignment Verified	-	DD

Gas Heat		
	Design	Actual

Test Data		
	Design	Actual
CFM	2475	2420
SF RPM	-	1109
Motor RPM	-	1109
RL Voltage	-	207/206/207
RL Amperage	-	2.98/3.2/3.3
Total ESP	-	0.52"
Fan Discharge SP	-	0.52"

General		
	Design	Actual
Fan Rotation Correct	-	YES

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Project: 07-03-23 MENDOCINO FARMS - GLENDALE, CA

System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 ND-2-ACPSP-F	5424 ND-2-ACPSP-F
Job / Serial Num	-	5727845
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	108	108"
Hood Width	54	54"
Supply Plenum Type	-	PERFORATED
Supply Plenum Width	12"	12"
Supply Plenum Length	120"	120"

Test Data Exhaust		
	Design	Actual
Filter Type	SS FILTERS	SS FILTERS
Filter Size 1	20X16	20X16
Filter Qty 1	7	6
Filter AK factor size 1	2.08"	2.08
Filter Total AK Area	14.56	12.48
Filter1 FPM	-	285
Filter2 FPM	-	297
Filter3 FPM	-	329
Filter4 FPM	-	329
Filter5 FPM	-	297
Filter6 FPM	-	307
Filter Ave FPM(corr)	-	307
CFM	2250	3831

Cooking Equipment		
	Design	Actual
Item 1	-	PANINI PRESS
Item 2	-	FLAT TOP GRILL
Item 3	-	BROILER
Item 4	-	
Item 5	-	

Test Data Supply		
	Design	Actual
Total AK Area	10	10
Kv factor (Vel)	0.87"	0.87
Num of Readings	-	8
Reading1 FPM	-	193
Reading2 FPM	-	170
Reading3 FPM	-	166
Reading4 FPM	-	174
Reading5 FPM	-	168
Reading6 FPM	-	108
Reading7 FPM	-	138
Reading8 FPM	-	165
Ave FPM(corr)	-	160
CFM	1375	1392

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