

Report By:

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



**Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 05/23/2024**

PROJECT
Fibbar Macgees (Sunnyvale, CA)

152 and 156 S Murphy Ave

Sunnyvale, CA 94086

Client

Martinico & Sons, Inc.

1776 S. 7th St.

San Jose, CA 95112

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Project: Fibbar Macgees (Sunnyvale, CA)

Table Of Contents

Section	Page #
AHU/RTU	3
FAN - Exhaust	6
FAN - Supply	12
Kitchen Hood Type I	15



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Project: Fibbar Macgees (Sunnyvale, CA)

System/Unit: AHU/RTU

Asset: RTU-1

AREA:PREP

Unit Data		
	Design	Actual
MFG	NA	BRYANT
Serial Num	-	3023P34306
Model Num	NA	582KP09N125A2A
Configuration	-	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	20X24X1
Num PreFilter 1	-	4
PreFilter Size 1	-	16X20X2

Motor Data		
	Design	Actual
Motor MFG	-	BRYANT
Frame	-	NA
Horsepower	3.5	3.5
Motor Rpm	-	NA
Phase	3	3
Rated Voltage	208	208
Rated Amperage	-	6.4
Service Factor	-	NA

Test Data		
	Design	Actual
SF CFM	3180	3185
RA CFM	-	2392
OA CFM	800	793
RL Voltage	208	208
RL Amperage	-	1.9
OA Damper Position	-	25%
Brake Horse Power	2.4	NA

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.24
Fan Suction SP	-	-0.48
Fan Discharge SP	-	0.35
Total ESP	0.7	0.59
Fan Total SP	0.85	0.83

Completed By: David Nicolas Sanchez on 05/24/2024



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Project: Fibbar Macgees (Sunnyvale, CA)

AHU/RTU

Diffuser Supply (GRD)

RTU-1/PREP

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1	KITCHEN	CSD-5	14	480	691	445	92.7
1-2	KITCHEN	CSD-5	14	480	691	505	105.2
1-3	WOMENS RR	CSD-2	8	150	180	137	91.3
1-4	MENS RR	CSD-2	8	150	186	140	93.3
1-5	KITCHEN	CSD-5	14	480	602	527	109.8
1-6	PREP	CSD-5	14	480	426	462	96.3
1-7	PREP	CSD-5	14	480	894	527	109.8
1-8	PREP	CSD-5	14	480	873	442	92.1
Total				3180	4543	3185	100.16%



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Project: Fibbar Macgees (Sunnyvale, CA)

System/Unit: AHU/RTU

Asset: RTU-2

AREA:DINING

Unit Data		
	Design	Actual
MFG	NA	YORK
Model Num	NA	ZH120N18R2A1BCA1A1

Test Data		
	Design	Actual
OA CFM	1000	1023
OA Damper Position	-	85%

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Notes:

Balanced OA only to ensure ventilation and overall building pressurization.

Written By: Will Turnbough on 05/28/2024

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Project: Fibbar Macgees (Sunnyvale, CA)

System/Unit: FAN - Exhaust



Asset: EF-1

AREA:MENS RR

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

Test Data		
	Design	Actual
CFM	440	446

Motor Data		
	Design	Actual
Motor MFG	-	VORTEX
Frame	-	NA
Horsepower	150W	140W
Motor Rpm	-	NA
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	60
Service Factor	-	NA

Completed By: David Nicolas Sanchez on 05/24/2024

Notes:

No dampers installed to adjust exhaust CFM.

Written By: David Nicolas Sanchez on 05/23/2024

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Project: Fibbar Macgees (Sunnyvale, CA)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF-1/MENS RR

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E1-1	CEG-3	10	220	1	188		188	85.5
E1-2	CEG-3	10	220	1	258		258	117.3
Total			440		446	0	446	101.36%

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Project: Fibbar Macgees (Sunnyvale, CA)

System/Unit: FAN - Exhaust



Asset: EF-2

AREA:WOMENS RR

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

Test Data		
	Design	Actual
CFM	440	467

Motor Data		
	Design	Actual
Motor MFG	-	Vortex
Frame	-	NA
Horsepower	150W	140W
Motor Rpm	-	NA
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	NA
Service Factor	-	NA

Completed By: David Nicolas Sanchez on 05/24/2024

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Project: Fibbar Macgees (Sunnyvale, CA)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF-2/WOMENS RR

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E2-1	CEG-3	10	220	1	330		330	150.0
E2-2	CEG-3	10	220	1	137		137	62.3
Total			440		467	0	467	106.14%

Asset	Notes	Date	Written By
E2-1	No dampers installed	05/28/2024	Will Turnbough
E2-2	No dampers installed	05/28/2024	Will Turnbough

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Project: Fibbar Macgees (Sunnyvale, CA)

System/Unit: FAN - Exhaust



Asset: KEF-1

AREA:HOOD 1

Unit Data		
	Design	Actual
MFG	CAPTIVE AIRE	CAPTIVE AIRE
Model Num	DU85HFA	DU85HFA
Serial Num	-	5654995
Type	CRE UPBLAST	UPBLAST
Configuration	-	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Horsepower	1	1
Motor Rpm	-	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	11.6

Test Data		
	Design	Actual
CFM	1350	1397
Fan RPM	1232	1170
Fan Rotation	-	CCW
Motor RPM	-	1170
System SetPt	-	65%
RL Voltage	-	120
RL Amperage	-	NA
Total ESP	1.00	1.00
Fan Inlet SP	-	-1.00
Fan Discharge SP	-	ATM

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Project: Fibbar Macgees (Sunnyvale, CA)

System/Unit: FAN - Exhaust



Asset: KEF-2

AREA:HOOD 2

Unit Data		
	Design	Actual
MFG	NA	CAPTIVE AIRE
Model Num	NA	DU180HFA
Serial Num	-	6767775
Type	-	UPBLAST
Configuration	-	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Frame	-	NA
Horsepower	-	2
Motor Rpm	-	1200
Phase	-	1
Voltage (rated)	-	230
Amperage (rated)	-	NA
Service Factor	-	NA

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

Test Data		
	Design	Actual
CFM	-	3717
Fan RPM	-	1134
Fan Rotation	-	CCW
Motor RPM	-	1134
RL Voltage	-	244
RL Amperage	-	7.04
Suction ESP	-	1.02
Discharge ESP	-	-1.02
Total ESP	-	ATM

Completed By: David Nicolas Sanchez on 05/24/2024

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Project: Fibbar Macgees (Sunnyvale, CA)

System/Unit: FAN - Supply



Asset: MAU-1

AREA:HOOD 1

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	A1-15D
Serial Num	-	5654995
Type	-	MUA
Configuration	-	VERTICAL
Num Filters Size 1	-	2
Filter Size 1	-	20X16

Test Data		
	Design	Actual
CFM	1215	1205
SF RPM	1519	1512
RL Voltage	-	115
RL Amperage	-	11.6
Suction ESP	-	NA
Discharge ESP	-	NA
Total ESP	0.5	0.5
Brake Horse Power	-	0.5370

Motor Data		
	Design	Actual
Motor MFG	-	TELCO GREEN
Frame	-	NA
Horsepower	1	1
Motor Rpm	1519	1800
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	11.6
Service Factor	-	NA

Completed By: David Nicolas Sanchez on 05/24/2024

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Project: Fibbar Macgees (Sunnyvale, CA)

FAN - Supply



Diffuser Supply (GRD)

MAU-1/HOOD 1

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
M-2	HOOD 1	DUCT	12X8	607	815	602	99.2
M2-1	HOOD 1	DUCT	12X8	607	815	602	99.2
Total				1214	1630	1204	99.18%

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Project: Fibbar Macgees (Sunnyvale, CA)

System/Unit: FAN - Supply



Asset: MUA-2

AREA:HOOD 2 / KITCHEN

Unit Data		
	Design	Actual
MFG	NA	CHAMPION COOLER
Model Num	NA	75/85DD
Serial Num	-	ID7040197
Type	-	MUA
Configuration	-	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	DIAL
Frame	-	56Z
Horsepower	-	1
Motor Rpm	-	1725
Phase	-	1
Voltage (rated)	-	115/230
Amperage (rated)	-	13.5/6.8
Service Factor	-	1.0

Drive Data		
	Design	Actual
Motor Sheave Size	-	0.75"
Motor Bore Size	-	0.50"
Fan Sheave Size	-	0.75"
Fan Sheave Bore	-	0.50"
Belt CL Distance	-	35'
Num of Belts	-	1
Belt Size	-	NA
Belt Alignment Verified	-	YES

Test Data		
	Design	Actual
CFM	2900	2567
SF RPM	-	448
Motor RPM	-	1748
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	-	NA
Fan Discharge SP	-	NA

General		
	Design	Actual
Fan Rotation Correct	-	YES

Completed By: David Nicolas Sanchez on 05/24/2024

Notes:

Existing MUA with no design provided. Balanced as a ratio to hood exhaust and for overall building performance.

Air is supplied by two grilles near the hood.

Motor sheave is maximized.

Written By: Will Turnbough on 05/28/2024

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Project: Fibbar Macgees (Sunnyvale, CA)

System/Unit: Kitchen Hood Type I



Asset: HD-1

AREA:KITCHEN

Unit Data		
	Design	Actual
MFG	CAPTIVE AIRE	CAPTIVE AIRE
Model Num	5424 ND-2-PSP-F	5424 ND-2-PSP-F
Job / Serial Num	-	5654995
Type	TYPE I CANOPY	TYPE 1
Hood length	72	72"
Hood Width	54	54"
Supply Plenum Type	-	PERFORATED
Supply Plenum Width	16	16"
Supply Plenum Length	72	72"

Test Data Supply		
	Design	Actual
Total AK Area	9.33	9.33
Kv factor (Vel)	0.91	0.91
Num of Readings	-	6
Reading1 FPM	-	148
Reading2 FPM	-	119
Reading3 FPM	-	141
Reading4 FPM	-	145
Reading5 FPM	-	145
Reading6 FPM	-	154
Ave FPM(corr)	-	142
CFM	1214	1205

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	20X16	20X16
Filter Qty 1	4	4
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	8.32	8.32
Filter1 FPM	-	165
Filter2 FPM	-	177
Filter3 FPM	-	171
Filter4 FPM	-	162
Filter Ave FPM(corr)	-	168
CFM	1350	1397

Cooking Equipment		
	Design	Actual
Item 1	-	AIR FRIER
Item 2	-	AIR FRIER

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Project: Fibbar Macgees (Sunnyvale, CA)

System/Unit: Kitchen Hood Type I



Asset: HD-2

AREA:

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA
Job / Serial Num	-	NA
Type	-	TYPE 1 SLOPE
Hood length	-	150"
Hood Width	-	55"

Test Data Exhaust		
	Design	Actual
Filter Type	-	BAFFLED
Filter Size 1	-	20X25
Filter Qty 1	-	6
Filter AK factor size 1	-	3.42
Filter Total AK Area	-	20.52
Filter1 FPM	-	205
Filter2 FPM	-	197
Filter3 FPM	-	199
Filter4 FPM	-	177
Filter5 FPM	-	168
Filter6 FPM	-	141
Filter Ave FPM(corr)	-	203
CFM	3750	3717

Cooking Equipment		
	Design	Actual
Item 1	-	GRILL
Item 2	-	PLANCHA

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