

Issue List

- ALL RTU'S NEED ECONOMIZER CONTROLS
- EF-4 MISSING BELT
- MUA NEEDS PROPER WIRING

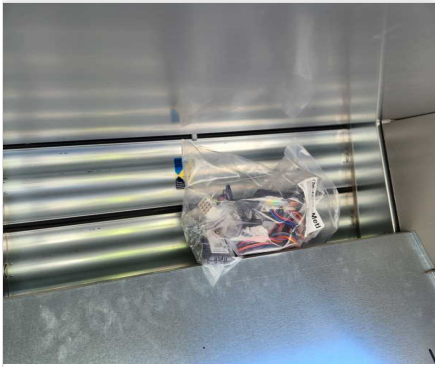


Flores (Emeryville, CA)

Project Issue Information

Issue Name : ALL RTU'S NEED ECONOMIZER CONTROLS
Description : All RTU'S need to have economizer controls installed. Units are currently disconnected from the actuator and manually set for proper design OA flow.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Originated Date : 10/03/2023 - Zack Eismin - National TAB

Project Issue File Details



20231003_141057
10/03/2023



Flores (Emeryville, CA)

Project Issue Information

Issue Name : EF-4 MISSING BELT
Description : EF-4 is missing its belt to drive the fan sheave. Recommend to replace missing belt
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Originated Date : 10/05/2023 - Zack Eismin - National TAB

Project Issue File Details



169646440249960606655..
10/05/2023



Flores (Emeryville, CA)

Project Issue Information

Issue Name : MUA NEEDS PROPER WIRING
Description : MUA is currently connected to RTU-3 power source for TAB recommended to properly wire unit.
Created By : National TAB **Assigned To :** National TAB - Will Turnbough
Status : Open
Originated Date : 10/05/2023 - Zack Eismin - National TAB

Project Issue File Details



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10/05/2023

National TAB

Project: Flores (Emeryville, CA)

System/Unit: AHU/RTU



Asset: AC-1

AREA:

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3302G40334
Model Num	NA	48HJD012
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	35X19
Num PreFilter 1	-	4
PreFilter Size 1	-	20X20X2

Test Data		
	Design	Actual
SF CFM	3500	3346
SF RPM	1100	847
RA CFM	2200	2135
OA CFM	1300	1211
RL Voltage	480	477/480/479
RL Amperage	-	4.1/4.2/3.9
OA Damper Position	-	40%

Motor Data		
	Design	Actual
Motor MFG	-	GE
Frame	-	56HZ
Horsepower	-	NL
Motor Rpm	-	1725
Phase	3	3
Rated Voltage	480	230/460
Rated Amperage	-	10.2/4.8
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.73"
Fan Suction SP	-	-1.01"
Fan Discharge SP	-	0.46"
Total ESP	1.00	1.19"
Fan Total SP	-	1.47"

Drive Data		
	Design	Actual
Motor Sheave Size	-	VP50
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	2 TURNS OPEN
Fan Sheave Size	-	9"
Fan Sheave Bore	-	1"
Belt CL Distance	-	18"
Num of Belts	-	1
Belt Size	-	B53

Completed By: Zack Eismin on 10/05/2023

National TAB

Project:Flores (Emeryville, CA)

AHU/RTU



Diffuser Supply (GRD)

AC-1/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1		A	12	400	161	371	92.8
1-2		A	12	400	334	382	95.5
1-3		A	12	400	128	366	91.5
1-4		A	12	400	159	369	92.3
1-5		A	12	400	397	385	96.3
1-6		A	12	400	695	374	93.5
1-7		A	12	400	710	399	99.8
1-8		A	12	400	460	411	102.8
1-9		A	8	150	178	142	94.7
1-10		A	8	150	179	147	98.0
Total				3500	3401	3346	95.6%

National TAB

Project: Flores (Emeryville, CA)

System/Unit: AHU/RTU



Asset: AC-2

AREA:

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3302G50339
Model Num	NA	48HJD014
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	35X19
Num PreFilter 1	-	4
PreFilter Size 1	-	20X20X2

Test Data		
	Design	Actual
SF CFM	4800	4821
SF RPM	1100	1073
RA CFM	-	3319
OA CFM	1600	1502
RL Voltage	480	478/477/480
RL Amperage	-	6.8/7.0/6.9
OA Damper Position	-	30%
Brake Horse Power	5.25	4.6

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	145TY
Horsepower	-	5
Motor Rpm	-	1725
Phase	3	3
Rated Voltage	480	230/460
Rated Amperage	-	15.0/7.5
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.96"
Fan Suction SP	-	-1.41"
Fan Discharge SP	-	0.36"
Total ESP	1.00	1.32"
Fan Total SP	-	1.77"

Drive Data		
	Design	Actual
Motor Sheave Size	-	4"
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	1 TURN OPEN
Fan Sheave Size	-	6.5"
Fan Sheave Bore	-	1"
Belt CL Distance	-	17"
Num of Belts	-	1
Belt Size	-	B47

Completed By: Zack Eismin on 10/05/2023

Notes:

AC DESIGN IS 4800 CFM

DIFFUSER TOTAL IS 5100 CFM

Written By: Michael Gabbert on 10/03/2023

National TAB

Project:Flores (Emeryville, CA)

AHU/RTU



Diffuser Supply (GRD)

AC-2/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-1		A	12	400	370	378	94.5
2-2		A	12	300	290	293	97.7
2-3		A	12	400	400	392	98.0
2-4		A	12	400	368	372	93.0
2-5		A	12	300	304	297	99.0
2-6		A	12	400	304	365	91.3
2-7		A	12	400	294	361	90.3
2-8		A	12	300	331	307	102.3
2-9		A	12	300	396	293	97.7
2-10		A	12	400	321	367	91.8
2-11		A	12	300	391	277	92.3
2-12		A	12	400	410	388	97.0
2-13		A	12	400	370	362	90.5
2-14		A	12	400	373	369	92.3
Total				5100	4922	4821	94.53%

National TAB

Project: Flores (Emeryville, CA)

System/Unit: AHU/RTU



Asset: AC-3

AREA:

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	3302G50341
Model Num	NA	48HJD014
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	35X19
Num PreFilter 1	-	4
PreFilter Size 1	-	20X20X2

Test Data		
	Design	Actual
SF CFM	5010	4785
SF RPM	1100	1106
RA CFM	-	3123
OA CFM	1600	1662
RL Voltage	480	477/478/477
RL Amperage	-	6.5/6.8/6.7
OA Damper Position	-	30%
Brake Horse Power	5.25	4.33

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	145TY
Horsepower	-	5
Motor Rpm	-	1725
Phase	3	3
Rated Voltage	480	230/460
Rated Amperage	-	15/7.5
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-1.1"
Fan Suction SP	-	-1.52"
Fan Discharge SP	-	0.51"
Total ESP	1.00	1.61"
Fan Total SP	-	2.03"

Drive Data		
	Design	Actual
Motor Sheave Size	-	4"
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	1 TURN OPEN
Fan Sheave Size	-	6.5"
Fan Sheave Bore	-	1"
Belt CL Distance	-	17"
Num of Belts	-	1
Belt Size	-	B47

Completed By: Zack Eismin on 10/05/2023

National TAB

Project:Flores (Emeryville, CA)

AHU/RTU



Diffuser Supply (GRD)

AC-3/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
3-1		A	12	400	400	410	102.5
3-2		A	12	400	397	403	100.8
3-3		A	12	400	315	379	94.8
3-4		A	10	320	272	303	94.7
3-5		A	10	320	338	310	96.9
3-6		A	12	450	51	414	92.0
3-7		A	6	75	188	69	92.0
3-8		A	6	75	71	71	94.7
3-9		A	8	100	86	92	92.0
3-10		A	8	150	161	157	104.7
3-11		A	10	320	308	301	94.1
3-12		A	12	400	531	392	98.0
3-13		A	12	400	319	365	91.3
3-14		A	12	400	356	372	93.0
3-15		A	12	400	378	381	95.3
3-16		A	12	400	323	366	91.5
Total				5010	4494	4785	95.51%

National TAB

Project: Flores (Emeryville, CA)

System/Unit: FAN - Exhaust



Asset: EF-1

AREA:HOOD #1 (MAIN HOOD)

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	NCA18HPFA
Serial Num	-	175153
Type	-	UPBLAST

Test Data		
	Design	Actual
CFM	3600	3758
Fan RPM	1271	1255
RL Voltage	-	NA
RL Amperage	-	NA
Suction ESP	-	0.89"
Discharge ESP	-	ATM
Total ESP	1.50	0.89"

Motor Data		
	Design	Actual
Motor MFG	-	AD SMITH
Frame	-	56HZ
Horsepower	2.0	2.0
Motor Rpm	-	1725
Phase	3	3
Voltage (rated)	480	230/460
Amperage (rated)	-	6.8/3.4
Service Factor	-	1.15

Drive Data		
	Design	Actual
Motor Sheave Size	-	4"
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	1 TURN OPEN
Fan Sheave Size	-	5"
Fan Sheave Bore	-	5/8"
Belt CL Distance	-	7.5"
Num of Belts	-	2
Belt Size	-	AX26

Completed By: Zack Eismin on 10/04/2023

National TAB

Project: Flores (Emeryville, CA)

System/Unit: FAN - Exhaust



Asset: EF-2

AREA:HOOD #3 DISHWASHER

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	NCA8FA
Serial Num	-	1854894
Type	-	UPBLAST

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	C56
Horsepower	0.25	0.5
Motor Rpm	-	1730
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	8.0
Service Factor	-	1.35

Drive Data		
	Design	Actual
Motor Sheave Size	-	4"
Motor Bore Size	-	5/8"
Motor Sheave SetPt	-	FIXED
Fan Sheave Size	-	4.5"
Fan Sheave Bore	-	3/4"
Belt CL Distance	-	5"
Num of Belts	-	1
Belt Size	-	4L210

Test Data		
	Design	Actual
CFM	800	779
Fan RPM	1390	1146
RL Voltage	-	120
RL Amperage	-	NA
Suction ESP	-	-0.51"
Discharge ESP	-	ATM
Total ESP	0.75	0.51"

Completed By: Zack Eismin on 10/05/2023

National TAB

Project: Flores (Emeryville, CA)

System/Unit: FAN - Exhaust



Asset: EF-3

AREA:HOOD #2

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	DU240HPA
Serial Num	-	5813969
Type	CRE UPBLAST	UPBLAST

Test Data		
	Design	Actual
CFM	3140	3011
RL Voltage	-	477
RL Amperage	-	4.1
Total ESP	1.150	1.09"

Motor Data		
	Design	Actual
Motor MFG	-	TECO
Frame	-	213T
Horsepower	2.0	3
Motor Rpm	758	1170
Phase	3	3
Voltage (rated)	480	230/460
Amperage (rated)	-	9.32/4.62
Service Factor	-	1.15

Completed By: Zack Eismin on 10/04/2023

National TAB

Project: Flores (Emeryville, CA)

System/Unit: FAN - Exhaust



Asset: EF-4

AREA:ELECTRICAL ROOM

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	DD10FA
Serial Num	-	175153
Type	-	DOWNBLAST

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	NL
Horsepower	0.25	0.25
Motor Rpm	-	1725
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	5.0
Service Factor	-	1.35

Drive Data		
	Design	Actual
Motor Sheave Size	-	4"
Motor Bore Size	-	7/16"
Motor Sheave SetPt	-	5 TURNS OPEN
Fan Sheave Size	-	4"
Fan Sheave Bore	-	3/4"
Belt CL Distance	-	5"
Num of Belts	-	1
Belt Size	-	4L200

Test Data		
	Design	Actual
CFM	975	901
Fan RPM	1435	1368
RL Voltage	-	NA
RL Amperage	-	NA
Suction ESP	-	-0.31"
Discharge ESP	-	ATM
Total ESP	0.75	0.31"

Completed By: Zack Eismin on 10/05/2023

National TAB

Project: Flores (Emeryville, CA)

System/Unit: FAN - Exhaust



Asset: EF-5

AREA:RR

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	GB-090-4X-QD-R2
Serial Num	-	02D02167
Type	-	DOWNBLAST

Test Data		
	Design	Actual
CFM	720	669
Fan RPM	1435	1379
RL Voltage	-	NA
RL Amperage	-	NA
Suction ESP	-	-0.38"
Discharge ESP	-	ATM
Total ESP	0.75	0.38"

Motor Data		
	Design	Actual
Motor MFG	-	FASCO
Frame	-	NL
Horsepower	0.25	0.25
Motor Rpm	-	1725
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	4.1
Service Factor	-	1.15

Drive Data		
	Design	Actual
Motor Sheave Size	-	VP25
Motor Bore Size	-	1/2"
Motor Sheave SetPt	-	2 TURNS OPEN
Fan Sheave Size	-	4"
Fan Sheave Bore	-	3/4"
Belt CL Distance	-	4-3/4"
Num of Belts	-	1
Belt Size	-	4L200

Completed By: Zack Eismin on 10/04/2023

National TAB

Project:Flores (Emeryville, CA)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF-5/RR

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E5-1	D	10	360	1	330	330	330	91.7
E5-2	D	10	360	1	339	339	339	94.2
Total			720		669	669	669	92.92%

National TAB

Project: Flores (Emeryville, CA)

System/Unit: FAN - Exhaust



Asset: EF-6

AREA:TRASH ROOM

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

Test Data		
	Design	Actual
CFM	160	151
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	0.50	0.29"

Motor Data		
	Design	Actual
Motor MFG	-	NA
Frame	-	NA
Horsepower	113W	NA
Motor Rpm	1500	NA
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	NA
Service Factor	-	NA

Completed By: Zack Eismin on 10/05/2023

National TAB

Project: Flores (Emeryville, CA)

System/Unit: FAN - Supply



Asset: MAU-1

AREA:HOOD #1

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	NHMUA2.12-G15
Serial Num	-	175153
Type	GAS FIRED	MUA
Configuration	HORIZONTAL	VERTICAL
Num Filters Size 1	-	3
Filter Size 1	-	24.5X19.5

Test Data		
	Design	Actual
CFM	3140	3147
SF RPM	1359	875
RL Voltage	-	477/477/477
RL Amperage	-	2.8/2.9/2.7
Suction ESP	-	NA
Discharge ESP	-	NA
Total ESP	0.500	NA
Brake Horse Power	-	1.4040

Motor Data		
	Design	Actual
Motor MFG	-	A.O. SMITH
Frame	-	56H
Horsepower	1.5	1.5
Motor Rpm	-	1725
Phase	3	3
Voltage (rated)	480	230/460
Amperage (rated)	-	5.8/2.9
Service Factor	-	1.15

Drive Data		
	Design	Actual
Motor Sheave Size	-	4"
Motor Bore Size	-	5/8"
Motor Sheave SetPt	-	2 TURNS OPEN
Fan Sheave Size	-	6.5"
Fan Sheave Bore	-	1"
Belt CL Distance	-	18.5"
Num of Belts	-	1
Belt Size	-	A50

Completed By: Zack Eismin on 10/04/2023

National TAB

Project:Flores (Emeryville, CA)

FAN - Supply



Diffuser Supply (GRD)

MAU-1/HOOD #1

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
M1-1		A	12	400	392	392	98.0
M1-2	HOOD #1	DUCT		1440	1402	1402	97.4
M1-3	HOOD #1	DUCT		1440	1353	1353	94.0
Total				3280	3147	3147	95.95%

National TAB

Project: Flores (Emeryville, CA)

System/Unit: Kitchen Hood Type I



Asset: HOOD-1

AREA:MAIN HOOD

Unit Data		
	Design	Actual
MFG	NA	EXISTING
Model Num	NA	EXISTING
Job / Serial Num	-	NL
Type	TYPE I	TYPE I CANOPY
Hood length	137	165
Hood Width	48	48"

Test Data Exhaust		
	Design	Actual
Filter Type	-	BAFFLED
Filter Size 1	-	16X16
Filter Qty 1	-	10
Filter AK factor size 1	-	1.62
Filter Total AK Area	-	16.2
Filter1 FPM	-	224
Filter2 FPM	-	227
Filter3 FPM	-	272
Filter4 FPM	-	254
Filter5 FPM	-	226
Filter6 FPM	-	229
Filter7 FPM	-	215
Filter8 FPM	-	217
Filter9 FPM	-	221
Filter10 FPM	-	237
Filter Ave FPM(corr)	-	232
CFM	3600	3758

Cooking Equipment		
	Design	Actual
Item 1	-	FRYER
Item 2	-	STOVE RANGE

Completed By: Zack Eismin on 10/05/2023

National TAB

Project: Flores (Emeryville, CA)

System/Unit: Kitchen Hood Type I



Asset: HOOD-2

AREA:

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	6024 ND-2
Job / Serial Num	-	5785229
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	137	137"
Hood Width	60	60"

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO
Filter Size 1	20X16	20X16
Filter Qty 1	8	8
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	16.64	16.64
Filter1 FPM	-	162
Filter2 FPM	-	181
Filter3 FPM	-	180
Filter4 FPM	-	214
Filter5 FPM	-	223
Filter6 FPM	-	179
Filter7 FPM	-	171
Filter8 FPM	-	147
Filter Ave FPM(corr)	-	181
CFM	3140	3011

Cooking Equipment		
	Design	Actual
Item 1	-	FRYER
Item 2	-	FLAT TOP GRILL

Completed By: Zack Eismin on 10/05/2023