

Report By:

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



Report: TAB

Function: Test, Adjust, & Balance

Date: 12/12/2024

Completed By: National TAB

PROJECT

Starbucks (Stockton, CA)

4343 North Wilson Way

Stockton, CA 95205

Client

B&M Builders, Inc.

11330 Sunrise Park Drive

Suite C

Rancho Cordova, CA 95742

National TAB

Project: Starbucks (Stockton, CA)

Table Of Contents

Section	Page #
Remarks	3
AHU/RTU	5
FAN - Exhaust	9

Issue List

- ECONOMIZERS ARE NOT OPERATIONAL



Starbucks (Stockton, CA)

Project Issue Information

Issue Name : ECONOMIZERS ARE NOT OPERATIONAL
Description : Economizers are not operational both RTU's needed to have damper position manually set for testing. Recommended to have both RTU's economizers serviced.
Created By : National TAB **Assigned To :** National TAB - Dan Hertenstein
Status : Open
Priority : Urgent **Asset Tag :**
Originated Date : 12/13/2024 - Zack Eismin - National TAB

National TAB

Project: Starbucks (Stockton, CA)

System/Unit: AHU/RTU



Asset: AHU1

AREA:

Unit Data		
	Design	Actual
MFG	CARRIER	TRANE
Serial Num	-	240810988L
Model Num	48FCDM07	YSJ072A3S0L05
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	34.5X16.5
Num PreFilter 1	-	3 / 2
PreFilter Size 1	-	16X24X2 / 18X24X2

Test Data		
	Design	Actual
SF CFM	2400	2464
RA CFM	1950	1992
OA CFM	450	472
RL Voltage	230	209/209/208
RL Amperage	NL	4.24/4.25/4.26
OA Damper Position	-	1.25"~19%
Brake Horse Power	NL	1.45

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	1	3.0
Motor Rpm	-	1800
Phase	3	3
Rated Voltage	230	208
Rated Amperage	NL	8.8
Service Factor	-	NL

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.59"
Fan Suction SP	-	-0.73"
Fan Discharge SP	-	0.55"
Total ESP	0.5"	1.14"
Fan Total SP	-	1.28"

Completed By: Zack Eismin on 12/12/2024

Unit Data - PHOTO LOG



12/12/2024

National TAB

Project: Starbucks (Stockton, CA)

AHU/RTU



Diffuser Supply (GRD)

AHU1/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
AHU1-SGRD1	BOH	NL	10"	400	412	395	98.8
AHU1-SGRD2	BOH	NL	10"	400	396	389	97.3
AHU1-SGRD3	BOH	NL	12"	500	410	501	100.2
AHU1-SGRD4	BOH	NL	12"	500	780	531	106.2
AHU1-SGRD5	BOH	NL	10"	400	527	431	107.8
AHU1-SGRD6	BOH	NL	8"	200	223	217	108.5
Total				2400	2748	2464	102.67%

Diffuser Ret/Exh (GRD)

AHU1/

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
AHU1-EGRD1	NL	16"	975	1	818	981	1003	102.9
AHU1-EGRD2	NL	16"	975	1	802	989	989	101.4
Total			1950		1620	1970	1992	102.15%

Completed By: Zack Eismin on 12/12/2024

National TAB

Project: Starbucks (Stockton, CA)

System/Unit: AHU/RTU



Asset: AHU2

AREA:

Unit Data		
	Design	Actual
MFG	CARRIER	TRANE
Serial Num	-	240810987L
Model Num	48FCDM07	YSJ072A3S0L05
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	34.5X16.5
Num PreFilter 1	-	3 / 2
PreFilter Size 1	-	16X24X2 / 18X24X2

Test Data		
	Design	Actual
SF CFM	2400	2418
RA CFM	1800	1824
OA CFM	600	594
RL Voltage	230	209/208/209
RL Amperage	NL	4.1/4.09/4.1
OA Damper Position	-	1.5"/~25%
Brake Horse Power	1	1.4

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	1	3.0
Motor Rpm	-	1800
Phase	3	3
Rated Voltage	230	208
Rated Amperage	NL	8.8
Service Factor	-	NL

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.46"
Fan Suction SP	-	-0.57"
Fan Discharge SP	-	0.53"
Total ESP	0.5"	0.99"
Fan Total SP	-	1.1"

Completed By: Zack Eismin on 12/12/2024

Unit Data - PHOTO LOG



12/12/2024

National TAB

Project: Starbucks (Stockton, CA)

AHU/RTU



Diffuser Supply (GRD)

AHU2/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
AHU2-SGRD1	SERVICE	NL	10"	400	356	379	94.8
AHU2-SGRD2	SERVICE	NL	10"	400	440	411	102.8
AHU2-SGRD3	SERVICE	NL	10"	400	328	387	96.8
AHU2-SGRD4	SERVICE	NL	10"	400	172	437	109.3
AHU2-SGRD5	SERVICE	NL	10"	400	402	375	93.8
AHU2-SGRD6	SERVICE	NL	10"	400	606	429	107.3
Total				2400	2304	2418	100.75%

Diffuser Ret/Exh (GRD)

AHU2/

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
AHU2-EGRD1	NL	16"	900	1	679	921	921	102.3
AHU2-EGRD2	NL	16"	900	1	871	903	903	100.3
Total			1800		1550	1824	1824	101.33%

Completed By: Zack Eismin on 12/12/2024

National TAB

Project: Starbucks (Stockton, CA)

System/Unit: FAN - Exhaust



Asset: EF1

AREA:

Unit Data		
	Design	Actual
MFG	GREEN HECK	PENNBARRY
Model Num	G-091	DX08B
Serial Num	-	K23AC47594
Type	DOWNBLAST	DOWNBLAST

Test Data		
	Design	Actual
CFM	160	172
RL Voltage	120	115
RL Amperage	NL	2.4
Total ESP	0.125"	0.21"

Motor Data		
	Design	Actual
Motor MFG	-	FASCO
Frame	-	NL
Horsepower	0.25	0.25
Motor Rpm	NL	1550
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	2.7
Service Factor	-	NL

Completed By: Zack Eismin on 12/12/2024

Unit Data - PHOTO LOG



12/12/2024

National TAB

Project: Starbucks (Stockton, CA)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF1/

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EF1-EGRD1	NL	8"	80	1	129	87	87	108.8
EF1-EGRD2	NL	8"	80	1	179	85	85	106.3
Total			160		308	172	172	107.5%