

Report By:

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



Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 07/14/2023

PROJECT

06-05-23 SWEETGREEN - PEABODY, MA
(TAB, IAQ)

210 ANDOVER ST

PEABODY, MA 01960

Client

Majestic Construction
344 JOHN DIETSCH BLVD
UNIT 14
NORTH ATTLEBORO, MA

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Project: 06-05-23 SWEETGREEN - PEABODY, MA (TAB, IAQ)

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National TAB

Project: 06-05-23 SWEETGREEN - PEABODY, MA (TAB, IAQ)

System/Unit: AHU/RTU



Asset: RTU1

AREA:DINING

Unit Data		
	Design	Actual
MFG	TRANE	LENNOX
Serial Num	-	5622K04698
Model Num	WSJ150A4S0D	KHA150S4
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14" x 23"
Num Final Filter 1	-	4
Final Filter Size 1	-	20" x 25" x 2"

Motor Data		
	Design	Actual
Motor MFG	-	NA
Frame	-	NA
Horsepower	3	NA
Motor Rpm	-	NA
Phase	3	NA
Rated Voltage	460	NA
Rated Amperage	-	NA

Drive Data		
	Design	Actual

Test Data		
	Design	Actual
SF CFM	4800	4683
SF RPM	-	NA
RA CFM	4200	4683
OA CFM	600	0
RL Voltage	-	490.8 / 490.6 / 493.1
RL Amperage	-	7.78 / 6.38 / 9.1
SF Rotation	-	CCW
RA Damper Position	-	100%
Min OA Damper Position	-	NA
Min OA Damper Type	-	ECON
OA Enthalpy Setpt	-	NA

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.35"
Fan Suction SP	-	-1.23
Fan Discharge SP	-	0.71"
Total ESP	1.0"	1.58"
Fan Total SP	-	1.94"

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

Completed By: Jordan Best on 06/29/2023

Notes:

UNABLE TO SET OA DUE TO LACK OF ACCESS TO SIEMENS CONTROL BOARD. WI-FI STICK COMPATIBLE WITH BOARD REQUIRED FOR ADJUSTING ECON.

Written By: Jordan Best on 06/29/2023

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Project:06-05-23 SWEETGREEN - PEABODY, MA (TAB, IAQ)

AHU/RTU



Diffuser Supply (GRD)

RTU1/DINING

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	EXIT VESTIBULE	CD1	12X12	400	1	342	371	371	92.8
SGRD2	RESTROOM	CD2	6X6	50	1	38	52	52	104.0
SGRD3	RESTROOM	CD2	6X6	50	1	72	47	47	94.0
SGRD4	DINING	LS1	12"	370	1	234	342	342	92.4
SGRD5	DINING	LS1	12"	370	1	248	338	338	91.4
SGRD6	DINING	LS1	12"	370	1	358	336	336	90.8
SGRD7	DINING	LS1	12"	370	1	316	338	338	91.4
SGRD8	SERVELINE	LS1	12"	340	1	245	308	308	90.6
SGRD9	SERVELINE	CD1		300	1	198	271	271	90.3
SGRD10	SERVELINE	LS1		370	1	343	356	356	96.2
SGRD11	SERVELINE	LS1		370	1	321	347	347	93.8
SGRD12	SERVELINE	CD1		300	1	243	291	291	97.0
SGRD13	SERVELINE	LS1		370	1	315	343	343	92.7
SGRD14	SERVELINE	CD1		300	1	207	287	287	95.7
SGRD15	SERVELINE	LS1		370	1	294	363	363	98.1
SGRD16	SERVELINE	CD1		300	1	256	293	293	97.7
Total				5000		4030	4683	4683	93.66%

Completed By: Jordan Best on 07/04/2023

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Project: 06-05-23 SWEETGREEN - PEABODY, MA (TAB, IAQ)

System/Unit: AHU/RTU



Asset: RTU2

AREA: KITCHEN

Unit Data		
	Design	Actual
MFG	TRANE	LENNOX
Serial Num	-	5621H02203
Model Num	WHC092H4RKA	KHB122H4EN1G
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	15.5" x 25"
Num Final Filter 1	-	4
Final Filter Size 1	-	20" X 25" X 2"

Motor Data		
	Design	Actual
Motor MFG	-	NA
Frame	-	NA
Horsepower	2.75	NA
Motor Rpm	-	NA
Phase	3	NA
Rated Voltage	460	NA
Rated Amperage	-	NA

Drive Data		
	Design	Actual

Test Data		
	Design	Actual
SF CFM	3000	3268
SF RPM	-	NA
RA CFM	2250	2460
OA CFM	750	822
RL Voltage	-	491.8 / 491.3 / 493.3
RL Amperage	-	1.9 / 1.87 / 2.04
SF Rotation	-	CCW
RA Damper Position	-	NA
Min OA Damper Position	-	4.45V
Min OA Damper Type	-	ECON
OA Enthalpy Setpt	-	NA

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.22"
Fan Suction SP	-	-0.79"
Fan Discharge SP	-	0.78"
Total ESP	1.0"	1"
Fan Total SP	-	1.57"

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

Completed By: Jordan Best on 06/28/2023

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Project:06-05-23 SWEETGREEN - PEABODY, MA (TAB, IAQ)

AHU/RTU



Diffuser Supply (GRD)

RTU2/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	KITCHEN	CD1	10X10	300	1	219	328	328	109.3
SGRD2	KITCHEN	CD1	10X10	200	1	156	218	218	109.0
SGRD3	KITCHEN	CD1	10X10	300	1	214	322	322	107.3
SGRD4	KITCHEN	CD1	10X10	200	1	174	219	219	109.5
SGRD5	KITCHEN	CD1	10X10	300	1	211	328	328	109.3
SGRD6	KITCHEN	CD1	10X10	300	1	216	329	329	109.7
SGRD7	KITCHEN	CD1	12X12	400	1	321	436	436	109.0
SGRD8	KITCHEN	CD1	10X10	200	1	193	220	220	110.0
SGRD9	KITCHEN	CD1	12X12	400	1	278	435	435	108.8
SGRD10	KITCHEN	CD1	12X12	400	1	342	433	433	108.3
Total				3000		2324	3268	3268	108.93%

Completed By: Jordan Best on 07/04/2023

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Project: 06-05-23 SWEETGREEN - PEABODY, MA (TAB, IAQ)

System/Unit: FAN - Exhaust



Asset: GX1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	SIF11-DD	SIF13-DD
Serial Num	-	5719027
Type	INLINE	INLINE
Configuration	HORIZONTAL	HORIZONTAL

Test Data		
	Design	Actual
CFM	1200	758
Fan RPM	2256	1805
Fan Rotation	-	NA
Motor RPM	-	NA
System SetPt	-	100
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	1.0"	NA
Fan Inlet SP	-	-0.44"
Fan Discharge SP	-	0.87"

Motor Data		
	Design	Actual
Motor MFG	-	NA
Frame	-	NA
Horsepower	2	NA
Motor Rpm	-	NA
Phase	3	NA
Voltage (rated)	460	NA
Amperage (rated)	-	NA
Service Factor	-	NA

Completed By: Jordan Best on 06/29/2023

Notes:

Fan nearly inaccessible due to hard ceiling. Only able to adjust set point and view RPM. Flow was originally hindered by stuck backdraft damper, addressed this issue but was still unable to raise flow to design. Suspect leakage in duct work but could not verify due to hard ceiling throughout space.

Written By: Jordan Best on 06/29/2023

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Project:06-05-23 SWEETGREEN - PEABODY, MA (TAB, IAQ)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

GX1/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	KITCHEN	EG1	12X12	950	1	337	402	496	52.2
EGRD2	KITCHEN	EG1	12X12	250	1	164	201	262	104.8
Total				1200		501	603	758	63.17%

Completed By: Jordan Best on 07/04/2023

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Project: 06-05-23 SWEETGREEN - PEABODY, MA (TAB, IAQ)

System/Unit: FAN - Exhaust



Asset: TX1

AREA:RESTROOMS

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	SIF10-DD	SIF10-DD
Serial Num	-	5719027
Type	INLINE	IN-LINE
Configuration	HORIZONTAL	HORIZONTAL

Motor Data		
	Design	Actual
Motor MFG	-	NA
Frame	-	NA
Horsepower	0.18	NA
Motor Rpm	-	NA
Phase	1	NA
Voltage (rated)	115	NA
Amperage (rated)	-	NA
Service Factor	-	NA

Test Data		
	Design	Actual
CFM	240	261
Fan RPM	1200	1036
Fan Rotation	-	NA
Motor RPM	-	1036
System SetPt	-	56
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	0.5"	NA
Fan Inlet SP	-	NA
Fan Discharge SP	-	NA

Completed By: Jordan Best on 06/27/2023

Notes:
Fan nearly inaccessible due to hard ceiling. Only able to adjust set point and view RPM.

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FAN - Exhaust



Diffuser Ret/Exh (GRD)

TX1/RESTROOMS

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	STORAGE	EG1	6X6	140	1	183	154	154	110.0
EGRD2	RESTROOM	EG1	8X8	50	1	62	55	53	106.0
EGRD3	RESTROOM	EG1	8X8	50	1	97	54	54	108.0
Total				240		342	263	261	108.75%