Report By:

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

NATIONAL TAB

Comfort. Under control.

Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 09/21/2022

PROJECT

SWEETGREEN #NYM237 - GARDEN CITY, NY

191 7TH ST ST, B

GARDEN CITY, NY

Client

DGC Capital Contracting Corp.
506 South 9th Ave

Mount Vernon, NY 10550

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Project: SWEETGREEN #NYM237 - GARDEN CITY, NY

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Project Summary

The summary below provides a quick understanding of our scope of work and general testing procedures. Enclosed in the report is further detail about your building performance including recommendations, asset data, and pictures. Our focus is to work with the trades to remedy any issues or deficiencies during the actual field balancing and not after the balancing has occurred to achieve a positive environment and outcome. The level of success is determined by the availability of the trades, possible parts needed, or time constraints.

RTU's (Roof Top Units) w/ Diffusers

Each of the RTU's were measured at their terminal devices or via traverse to establish a total flow for that unit. Each RTU was adjusted to within tolerance of the engineer's design flow. Each outlet was then adjusted to within tolerance of the design flow. Outside air was measured by reading the intake air opening with a velocity grid and multiplying by the free area. The outside air damper was adjusted until the airflow was within the design requirements. Any equipment that fell outside of that tolerance is noted throughout the report.

General Exhaust Fans w/ Grilles

The general exhaust fans were measured by reading each air device with a flow hood. The total airflow for each fan is equivalent to the sum of these readings. Fan speed was then adjusted so that the airflow was within tolerance of design. Each terminal device was balanced to within tolerance of the design volume using the installed volume dampers. Any equipment that fell outside of this tolerance is noted throughout the report.

Kitchen Exhaust Hood (Type II) & Associated Fans

Each kitchen exhaust fan was measured by traversing the ductwork or ductwork opening at the hood. The total flow of the exhaust fan was then adjusted to tolerance of the design flow. Any EF's that fell outside of this tolerance is noted throughout the report.

Final Building Tests

After completing the test and balance the final building pressure was measured. It was confirmed that the building pressure fell within acceptable tolerances of -0.02" wc to +0.02" wc and that the pressure measurement coincides with the actual and design net airflow. Any deviations from these standards are noted throughout the report.

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Project: SWEETGREEN #NYM237 - GARDEN CITY, NY

System/Unit: AHU/RTU

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Asset: RTU1 AREA:DINING

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	111210208L
Model Num	YHC067E4RYA	YHC092E3RHA0BC
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	16X36
Num Final Filter 1	-	3
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	3
Final Filter Size 2	-	20X20X2

Motor Data		
	Design	**Actual**
Motor MFG	-	EBM PAPST
Frame	-	NL
Horsepower	1	2800 W
Motor Rpm	-	1700
Phase	3	3
Rated Voltage	208	200
Rated Amperage	-	8.5

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	DIRECT DRIVE
Motor Bore Size	-	DIRECT DRIVE
Motor Sheave SetPt	-	DIRECT DRIVE
Fan Sheave Size	-	DIRECT DRIVE
Fan Sheave Bore	-	DIRECT DRIVE
Belt CL Distance	-	DIRECT DRIVE
Num of Belts	-	DIRECT DRIVE
Belt Size	-	DIRECT DRIVE
Belt Alignment	-	DIRECT DRIVE

Test Data		
	Design	**Actual**
SF CFM	2400	2588
SF RPM	-	DIRECT DRIVE
RA CFM	1870	2030
OA CFM	530	558
RL Voltage	-	220/220/2200
RL Amperage	-	1.9/1.6/1.8
SF Rotation	-	CCW
RA Damper Position	-	OPEN
Min OA Damper Position	-	CLOSED

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.48"
Fan Suction SP	-	-0.50"
Fan Discharge SP	-	0.52"
Total ESP	0.50"	1.00"
Fan Total SP	-	1.02"

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

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Project: SWEETGREEN #NYM237 - GARDEN CITY, NY

System/Unit: AHU/RTU

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Asset: RTU2 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	TRANE	TRANE
Serial Num	-	111210208L
Model Num	YHC092F3RMA	YHC092E3RHA0BC
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	16X36
Num Final Filter 1	-	3
Final Filter Size 1	-	20X25X2
Num Final Filter 2	-	3
Final Filter Size 2	-	20X20X2

Motor Data		
	Design	**Actual**
Motor MFG	-	EBM PAPST
Frame	-	NL
Horsepower	2.75	2800 W
Motor Rpm	-	1700
Phase	3	3
Rated Voltage	208	200
Rated Amperage	-	8.5

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	DIRECT DRIVE
Motor Bore Size	-	DIRECT DRIVE
Motor Sheave SetPt	-	DIRECT DRIVE
Fan Sheave Size	-	DIRECT DRIVE
Fan Sheave Bore	-	DIRECT DRIVE
Belt CL Distance	-	DIRECT DRIVE
Num of Belts	-	DIRECT DRIVE
Belt Size	-	DIRECT DRIVE
Belt Alignment	-	DIRECT DRIVE

Test Data		
	Design	**Actual**
SF CFM	3000	3268
SF RPM	-	DIRECT DRIVE
RA CFM	2510	2766
OA CFM	490	502
RL Voltage	-	219/220/220
RL Amperage	-	4.5/4.5/4.3
SF Rotation	-	CCW
RA Damper Position	-	16 1/2"
Min OA Damper Position	-	1/2"

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.58"
Fan Suction SP	-	-0.74"
Fan Discharge SP	-	0.64"
Total ESP	0.50"	1.22"
Fan Total SP	-	1.38"

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

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Project: SWEETGREEN #NYM237 - GARDEN CITY, NY

System/Unit: FAN - Exhaust

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Asset: EF1 AREA:RESTROOM

Unit Data		
	Design	**Actual**
MFG	NA	NL
Model Num	NA	BPT13-14MG
Serial Num	-	175630
Type	CENTRIFUGAL	CENTRIFUGAL
Configuration	CEILING	CELING

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	-	1
Voltage (rated)	-	120
Amperage (rated)	-	0.18
Service Factor	-	NL

Test Data		
	Design	**Actual**
CFM	75	77
Fan RPM	-	DIRECT DRIVE
Fan Rotation	-	CW
Motor RPM	-	DIRECT DRIVE
RL Voltage	-	124
RL Amperage	-	0.14

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Project: SWEETGREEN #NYM237 - GARDEN CITY, NY

System/Unit: FAN - Exhaust

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Asset: EF2 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	NL
Model Num	NA	BPT13-14MG
Serial Num	-	175630
Type	CENTRIFUGAL	CENTRIFUGAL
Configuration	CEILING	CEILING

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	NL
Motor Rpm	-	NL
Phase	-	1
Voltage (rated)	-	120
Amperage (rated)	-	0.14
Service Factor	-	NL

Test Data		
	Design	**Actual**
CFM	75	71
Fan RPM	-	DIRECT DRIVE
Fan Rotation	-	CW
Motor RPM	-	DIRECT DRIVE
RL Voltage	-	124
RL Amperage	-	0.13

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Project: SWEETGREEN #NYM237 - GARDEN CITY, NY

System/Unit: FAN - Exhaust

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Asset: KEF1 AREA:HOOD 1

Unit Data		
	Design	**Actual**
MFG	CAPTIVEAIRE	CAPTIVE-AIRE
Model Num	DU50HFA	DU50HFA
Serial Num	-	5497074
Type	UPBLAST	CENTRIFUGAL
Configuration	VERTICAL	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	HSSA
Frame	-	NL
Horsepower	0.50	0.50
Motor Rpm	-	1725
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	2.0
Service Factor	-	1.25

Test Data		
	Design	**Actual**
CFM	725	749
Fan RPM	1419	1092
Fan Rotation	-	CCW
Motor RPM	-	1092
System SetPt	-	38.0 Hz
RL Voltage	-	90
RL Amperage	-	1.3
Total ESP	1.0"	NA
Fan Inlet SP	-	NA
Fan Discharge SP	-	ATM

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