



Preliminary

09/18/2024 8:50:33 AM



Cover Page

PROJECT: Sweetgreen
LOCATION: , IL
PROJECT #: 14692

DATE: 9/18/2024
CONTACT: Nick Colontuono
AUTHOR: Brian Smith

FIRM: Aero Performance Group
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Franklin Park, IL 60131

PROJECT: Sweetgreen

DATE: 9/18/2024
PROJECT #: 14692
CONTACT: Colontuono, Nick

, IL

NOTES:

Project Issue Report

PROJECT: Sweetgreen
LOCATION: , IL
PROJECT #: 14692

DATE: 9/18/2024
CONTACT: Nick Colontuono
AUTHOR: Brian Smith

Issue ID:	0001	Status:	Corrected	Issue Priority:	Low
Equipment:	AHU-1/FAN TOTAL			Created Date: 17-Sep-24 Completed Date: 17-Sep-24	
Issue Description: VFD is limited to 35 hz. Cannot take it any higher					
Issue Type:	Documentation	Job Tag:	Repair Estimate:		
Role Assignment:	Not Assigned	Cross Ref#:	Replacement Cost:		
User Assignment:					

Issue ID:	0005	Status:	Open	Issue Priority:	Low
Equipment:	AHU-1/Outlet-18			Created Date: 17-Sep-24	
Issue Description: Cant find damper / Control contractor unsure if possible to set a damper position. IF not need a manual damper installed					
Issue Type:	Not Assigned	Job Tag:	Repair Estimate:		
Role Assignment:	Not Assigned	Cross Ref#:	Replacement Cost:		
User Assignment:					

Issue ID:	0006	Status:	Open	Issue Priority:	Low
Equipment:	AHU-1/Outlet-19			Created Date: 17-Sep-24	
Issue Description: Cant find damper / Control contractor unsure if possible to set a damper position. IF not need a manual damper installed					
Issue Type:	Not Assigned	Job Tag:	Repair Estimate:		
Role Assignment:	Not Assigned	Cross Ref#:	Replacement Cost:		
User Assignment:					

Issue ID:	0007	Status:	Open	Issue Priority:	Low
Equipment:	AHU-1/Outlet-20			Created Date: 17-Sep-24	
Issue Description: Cant find damper / Control contractor unsure if possible to set a damper position. IF not need a manual damper installed					
Issue Type:	Not Assigned	Job Tag:	Repair Estimate:		
Role Assignment:	Not Assigned	Cross Ref#:	Replacement Cost:		
User Assignment:					

Issue ID:	0004	Status:	Open	Issue Priority:	Low
Equipment:	EF-2			Created Date: 17-Sep-24	
Issue Description: No flow and i cannot reach fan safely. Have to stand on top of a freezer/cooler to see fan and still cant reach it from there. rest of ceiling is drywall					
Issue Type:	Not Assigned	Job Tag:	Repair Estimate:		
Role Assignment:	Not Assigned	Cross Ref#:	Replacement Cost:		
User Assignment:					

Issue ID:	0002	Status:	Open	Issue Priority:	Low
Equipment:	EF-3			Created Date: 17-Sep-24	
Issue Description: Fan is IN BUILDING GARAGE ABOUT 20 FEET IN AIR. CANT GRAB INFO OFF IT					
Issue Type:	Documentation	Job Tag:	Repair Estimate:		
Role Assignment:	Not Assigned	Cross Ref#:	Replacement Cost:		
User Assignment:					

Project Issue Report

PROJECT: Sweetgreen
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DATE: 9/18/2024
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Issue ID:	0003	Status:	Open	Issue Priority:	Low
Equipment:	EF-3				Created Date: 17-Sep-24
Issue Description:					
Duct is partially galvanized in space. Half black iron half galv					
Issue Type:	Documentation	Job Tag:	Repair Estimate:		
Role Assignment:	Not Assigned	Cross Ref#:	Replacement Cost:		
User Assignment:					

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Air Handling Unit

PROJECT: Sweetgreen
LOCATION: , IL
PROJECT #: 14692

DATE: 9/18/2024
CONTACT: Nick Colontuono
AUTHOR: Brian Smith

SYSTEM/UNIT: AHU-1

Tested By: Nick Colontuono
Date: 9/17/2024

Unit Nameplate Information	
Manufacturer	Carrier
Model Number	40RUSA16T3A6
Serial Number	2118U19045
Location	ABOVE CEILING
Area Served	SWEET GREEN
Fan Type	Cent
Fan Rotation	CW
Number of Fans	1
Filter Type 1	Pleated
Size 1	16X24X2 in.

Air Test Data	
System Operating Hz	60 Hz
System SP Setpoint	N/A " w.c.
O/A Damper %	30
R/A Damper %	70

Test Data	
System Condition	100 % Return / Minimum OA

Motor Nameplate Information	
Motor Manufacturer	CENTURY
Motor Horsepower	5 HP
Motor Frame	184T
Motor Service Factor	1.15

Motor Performance	
Nameplate Voltage	230/460 V
TAB Volts T1	478 V
Nameplate Amperage	12.6/6.3 A
TAB Amps T1	3.8 A

Drive System	
Motor Rated RPM	1755 RPM
Drive Type	Belt Drive
Fan Sheave Part Number	BK85 X 1-7/16
Shaft Diameter	1-7/16 in.
Motor Sheave Part Number	1VP56
Belt Part Number	BX38
Number of Belts	1
Centerline	13.5 in.
Motor Adjustment - Together	3 in.
Motor Adjustment - Apart	.5 in.

Air Handling Unit

PROJECT: Sweetgreen
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AHU-1 GRD - Supply Outlet Summary

System/Unit	Area Served	Size	AK Factor	Design Velocity	Design CFM	Final Velocity	Final CFM
Outlet-01	DINING 100	14/6	.45		350		floor was being tiled
Outlet-02	DINING 100	14/6	.45		375		floor was being tiled
Outlet-03	DINING 100	14/6	.45		375		floor was being tiled
Outlet-04	DINING 100	14/6	.45		375		floor was being tiled
Outlet-05	DINING 100	8	1	HOOD	200	HOOD	126
Outlet-06	DINING 100	8	1	HOOD	200	HOOD	122
Outlet-07	DINING 100	8	1	HOOD	200	HOOD	166
Outlet-08	DINING 100	8	1	HOOD	200	HOOD	176
Outlet-09	DINING 100	8	1	HOOD	200	HOOD	148
Outlet-10	DINING 100	8	1	HOOD	200	HOOD	133
Outlet-11	OPERATIONS 104	10	1	HOOD	300	HOOD	258
Outlet-12	INFINITE KITCHEN 107	8	1	HOOD	200	HOOD	190
Outlet-13	INFINITE KITCHEN 107	8	1	HOOD	200	HOOD	183
Outlet-14	INFINITE KITCHEN 107	8	1	HOOD	150	HOOD	140
Outlet-15	INFINITE KITCHEN 107	8	1	HOOD	150	HOOD	UP IN CEILING/NOT FRAMED 220
Outlet-16	PREP 108	10	1	HOOD	250	HOOD	220
Outlet-17	PREP 108	14	1	HOOD	500	HOOD	407
Outlet-18	WAREWASH 109	10	1	HOOD	300	HOOD	413
Outlet-19	WAREWASH 109	10	1	HOOD	275	HOOD	335
Outlet-20	UTILITY 111	8	1	HOOD	200	HOOD	210
Totals:	-	-	-	-	5200	-	3227
					0		0

Air Handling Unit

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SYSTEM/UNIT: AHU-1/FAN TOTAL

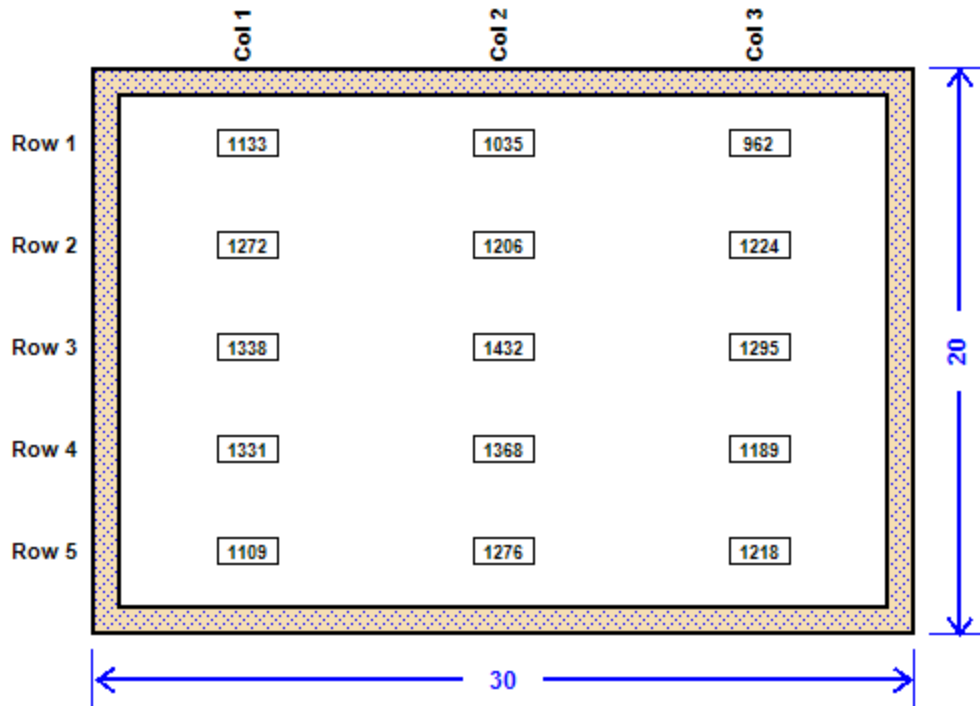
Tested By: Nick Colontuono
Date: 9/17/2024

Unit Nameplate Information	
System	AHU-1
Area Served	SWEETGREEN
Condition of Test	100% Supply
Location of Test	ABOVE CEILING @ UNIT
Point of Traverse	Discharge of Fan
Type of Instrument	Shortridge/Airfoil

Final Test Data	
Average Reading	1225.87 FPM
Operating Hz	60 Hz
Center Line Static Pressure	.18 " w.c.
Design Total Flow	5200 CFM
Actual Total Flow	4,291 + 170 = 4,461 CFM
Final Deviation	86 %
AFMS Reading	N/A CFM
AFMS Calibration Factor	N/A

Traverse Summary	
Type of Traverse	Rectangular
Outer Width	30 in.
Outer Height	20 in.
Diameter	0 in.
Insulation Width	1 in.
Free Area	3.50 sq. ft.
Number Of Rows	5
Readings Per Row	3
Total Readings	15
Sum of Readings	18388
	0

Traverse Data Points



Air Handling Unit

PROJECT: Sweetgreen
LOCATION: , IL
PROJECT #: 14692

DATE: 9/18/2024
CONTACT: Nick Colontuono
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SYSTEM/UNIT: AHU-1/RETURN TOTAL

Tested By: Nick Colontuono
Date: 9/17/2024

Unit Nameplate Information	
System	AHU 1 RETURN
Area Served	SWEET GREEN
Condition of Test	100% Return Air
Location of Test	UP BY UNIT
Point of Traverse	Suction of Fan
Type of Instrument	Shortridge/Airfoil

Final Test Data	
Average Reading	1112.67 FPM
Operating Hz	60 Hz
Center Line Static Pressure	-.33 " w.c.
Actual Total Flow	3460 CFM
AFMS Reading	70 RETURN 30 OA CFM
AFMS Calibration Factor	N/A

Traverse Summary	
Type of Traverse	Rectangular
Outer Width	18 in.
Outer Height	30 in.
Diameter	0 in.
Insulation Width	1 in.
Free Area	3.11 sq. ft.
Number Of Rows	5
Readings Per Row	3
Total Readings	15
Sum of Readings	16690
	0

Air Handling Unit

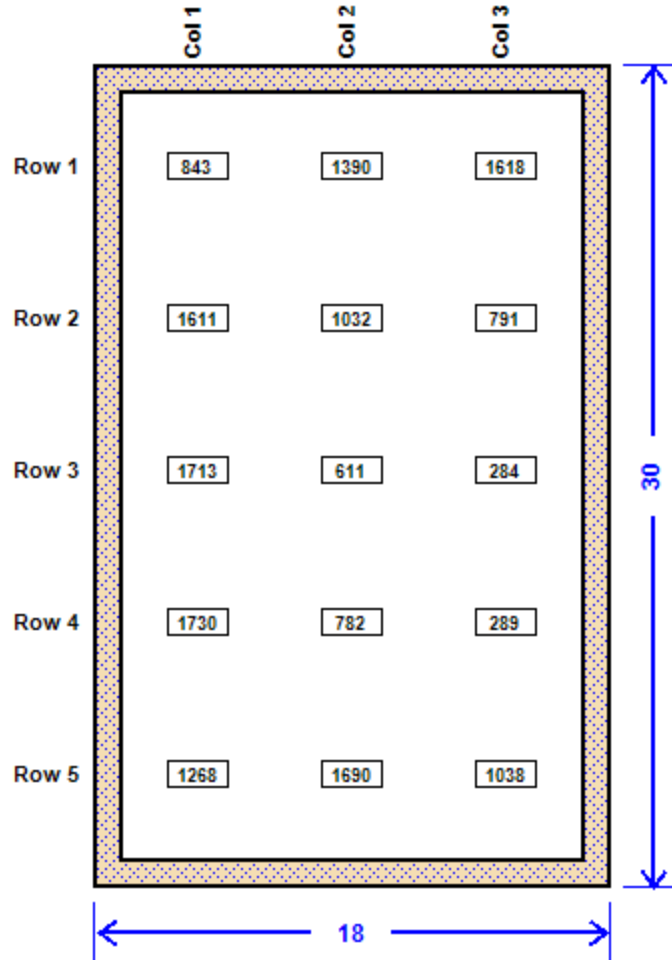
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CONTACT: Nick Colontuono
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SYSTEM/UNIT: AHU-1/RETURN TOTAL

Tested By: Nick Colontuono
Date: 9/17/2024

Traverse Data Points



Fan

PROJECT: Sweetgreen
LOCATION: , IL
PROJECT #: 14692

DATE: 9/18/2024
CONTACT: Nick Colontuono
AUTHOR: Brian Smith

SYSTEM/UNIT: EF-2

Tested By: Nick Colontuono
Date: 9/17/2024

Unit Nameplate Information	
Manufacturer	LABEL PAINTED OVER
Fan Model Number	LABEL PAINTED OVER
Fan Serial Number	LABEL PAINTED OVER

EF-2 GRD - Exhaust Inlet Summary

System/Unit	Area Served	Size	AK Factor	Design Velocity	Design CFM	Final Velocity	Final CFM
Inlet-01	MENS RR	6/6	1	HOOD	135	HOOD	
Inlet-02	WOMENS RR	6/6	1	HOOD	90	HOOD	
Totals:	-	-	-	-	225	-	0
					0		0

Fan

PROJECT: Sweetgreen
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DATE: 9/18/2024
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AUTHOR: Brian Smith

SYSTEM/UNIT: EF-3

Tested By: Nick Colontuono
Date: 9/17/2024

Unit Nameplate Information	
Location	GARAGE

Fan Performance	
System Operating Hz	36.5 Hz
Design Fan CFM	1175 CFM
Actual Fan CFM	1196 CFM

EF-3 GRD - Exhaust Inlet Summary

System/Unit	Area Served	Size	AK Factor	Design Velocity	Design CFM	Final Velocity	Final CFM
Inlet-01	PREP 108	16	1.4	840	1175	854	1196
Totals:	-	-	-	-	1175	-	1196
					0		0