



CERTIFIED TEST, ADJUST, AND BALANCE REPORT

DATE

2/4/2025

PROJECT

**HUGG AND HALL
MOBILE STORAGE
LITTLE ROCK, AR**

ARCHITECT

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LITTLE ROCK, AR 72202
(501)372-6734

ENGINEER

BROWN ENGINEERING
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LITTLE ROCK, AR 72223
(501)448-0100

HVAC CONTRACTOR

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NLR, AR 72117
(501)834-3320

NEBB TAB FIRM

AIRETECH CORPORATION
7631 Northshore Place
North Little Rock, Arkansas 72118

Certification Number: 2847



PROJECT: HUGG AND HALL MOBILE STORAGE

THE DATA PRESENTED IN THIS REPORT IS A RECORD OF SYSTEM MEASUREMENTS & FINAL ADJUSTMENTS THAT HAVE BEEN OBTAINED IN ACCORDANCE WITH THE CURRENT ADDITION OF THE NEBB PROCEDURAL STANDARD FOR TESTING, ADJUSTING & BALANCING OF ENVIRONMENTAL SYSTEMS. THE MEASUREMENTS SHOWN, & THE INFORMATION GIVEN, IN THIS REPORT ARE CERTIFIED TO BE ACCURATE & COMPLETE, AT THE TIME & DATE INFORMATION WAS GATHERED. ANY VARIANCES FROM DESIGN QUANTITIES, WHICH EXCEED NEBB TOLERANCES, ARE NOTED IN THE TAB REPORT PROJECT SUMMARY.

SUBMITTED & CERTIFIED BY:
NEBB TAB FIRM: AIRETECH CORPORATION
REGISTRATION NUMBER: 2847
CERTIFIED BY (TAB SUPERVISOR): DANIEL J DRAPER
CERTIFICATION EXPIRATION DATE: 12/31/2025
SIGNATURE:

A handwritten signature in black ink that reads "Daniel J. Draper".





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LOCATION: Little Rock, AR
PROJECT #: 77910

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AUTHOR:

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Firm Certification

AIRETECH CORPORATION

HAS MET ALL REQUIREMENTS FOR NEBB CERTIFIED
STATUS IN THE FOLLOWING DISCIPLINE

Testing, Adjusting and Balancing of Environmental Systems

2847

NEBB Certification Number

December 31, 2025

Expiration Date

A handwritten signature in black ink, appearing to read "Michael J. Kelly".

NEBB President

A handwritten signature in black ink, appearing to read "Rocky F. Anderson".

NEBB President-Elect



Certification

DANIEL JASON DRAPER

**HAS MET ALL REQUIREMENTS FOR NEBB CERTIFIED PROFESSIONAL
STATUS IN THE FOLLOWING DISCIPLINE**

Testing, Adjusting and Balancing of Environmental Systems

This Certificate, as well as individual affiliation with a NEBB Certified Firm and associated NEBB Certification Stamp are REQUIRED to provide a NEBB Certified Report. Participation in the NEBB Quality Assurance Program requires the Certificant be affiliated with a NEBB Certified Firm

CP-23442

NEBB Certification Number

December 31, 2025

Expiration Date

NEBB President

NEBB President-Elect



7631 Northshore Place
 North Little Rock, AR 72118
 Phone: 501-280-0404
 Fax: 501-280-9200

Instrument Calibration List

	Function	Range	Accuracy	Make	Model #	Serial #	Calibration Date
AIR	Air Pressure Measurement	0 to 10.00 in.w.g.	± 2% of reading	Evergreen	S-PVF-1	1900682	5/28/2024
	Air Velocity Measurement	100 to 3500 fpm	± 5% of reading	Evergreen	S-PVF-1	1900682	5/28/2024
	Direct Reading Hood	100 to 2000 cfm	± 5% of reading, ± 7 cfm	Evergreen	S-PVF-1	1900682	5/28/2024
TEMPERATURE	Air Meter with Probe	0 to 200 °F	± 0.5% of reading	Cooper	SRH77A-E	10709022	10/24/2024
	Immersion Meter with probe	0 to 200 °F	± 0.5% of reading	Cooper	SRH77A-E	10709022	10/24/2024
HUMIDITY	Humidity Measurement	10 to 90% RH	± 3% RH	Cooper	SRH77A-E	10709022	10/24/2024
ELECTRICAL	Volts AC	0 to 600 VAC	± 2% of reading	Fluke	902	62201193MV	10/24/2024
	Amperes	0.1 to 100 Amps	± 2% of reading	Fluke	902	62201193MV	10/24/2024
ROTATION	Rotation Measurement	60 to 5000rpm	± 2% of reading	Extech	461995	H319421	10/24/2024
HYDRONIC	Hydronic Pressure Measurement	0.4 to 200 PSI	± 2% of reading	TSI	HM685	72416042	8/13/2024
	Hydronic Differential Pressure	0.4 to 75 PSI	± 2% of reading	TSI	HM685	72416042	8/13/2024

(N.E.B.B. # 2847)



Certificate Of Calibration

Airetech Corp

Manufacturer	Evergreen Telemetry	Calibration Environment		
Product	Pressure / Velocity Module	Temperature	75	°F
Model	S-PVF-1	Rel. Humidity	24	%
SN	1900682	Bar. Pressure	28.6	in Hg

As Found
 As Left
 In Tolerance
 Out of Tolerance

Calibration Data

Measurement Variable	Test Point	Cal Standard	Allowable Range		Test Instrument	
			Min	Max		
Barometric Pressure (in Hg)	Spec		-2% - 0.1	+ 2% + 0.1		
	1	20.0			20.0	
	2	28.6			28.6	
	3	33.0			33.0	
Differential Pressure (in wc)	Spec		-2%-.001	+2%+.001		
	1	10.00			9.990	
	2	2.000			1.986	
	3	0.5000			0.4991	
	4	0.0500			0.0498	
	5	-10.00			-10.037	
Via Pitot >> Velocity Pressure >> (inW.C. / FPM) -3% -7			-3% - 7	+3% + 7		
	7	0.00072 / 108			107	
	8	0.0158 / 504			502	

Indicates out of tolerance condition -----↑

NIST-Traceable Lab Calibration Standards

Variable	System ID	Calibration Last	Calibration Due
Pressure	7481227	8-Mar-23	8-Mar-25
Pressure	7568470	8-Mar-23	8-Mar-25
Pressure	7871917	12-Sep-23	12-Sep-25
Pressure	7870754	12-Sep-23	12-Sep-25
Pressure	2205000006	13-Sep-23	13-Sep-25
Pressure	1208000080	13-Feb-23	13-Feb-25
Pressure	41001F6C	27-Apr-23	27-Apr-25
Velocity	2100191A	24-Feb-23	24-Feb-25
Velocity	2100190A	1-May-23	1-May-25

This instrument has been checked for accuracy, calibrated to manufacturer's specifications, and found to be within the specified tolerance unless otherwise stated. It has been calibrated using measurement standards traceable to the National Institute of Standards and Technology, or accepted intrinsic standards of measurement, or derived by the ratio type of self calibrated techniques.

 Calibrated By

28-May-2024 28-May-2026
 Calibration Date Date Due



Certificate: Test-0799118

Accreditation Number: AC-1756

Form: 7.8.0-0 Revised 1/17/20

Certificate of Calibration

Customer Information		SSC Info	
Customer:	Airetech Corp- 72118	SSC ID#:	None
Address:	7631 Northshore Pl North Little Rock, AR 72118-5311	Technician:	Christopher Carter
		Location Performed:	Lab
		Work Order:	WO-0182962
Instrument Information		Certificate Information	
ID#:	010709022-SRH77A-E	Calibration Date:	10/24/2024
Serial #:	010709022-SRH77A-E	Next Calibration Due:	10/24/2025
Description:	Temperature/Humidity Meter	As Found:	PASS
Manufacturer:	Cooper Instrument Corporation	As Left:	PASS
Model:	SRH77A	Temperature:	72.3 F
Capacity / Range:	-40-300°F/10-95%RH °F and %RH x	Humidity:	39 %

This instrument has been calibrated using standards traceable to SI units through the National Institute of Technology (NIST) or other National Metrological Institute (NMI). The uncertainties reported are expanded uncertainty values at an approximately 95% confidence level using a coverage factor of k=2. SSC certifies this instrument conforms to the procedure stated and statements of compliance are based on test results falling within the specified limits without considering the uncertainty of the measurement. This calibration complies with SSC's Quality System, which is accredited to ISO/IEC 17025:2017 and ANSI/NCSL Z540-1:1994. Results contained in this document relate only to the item calibrated. Calibration due dates appearing on the certificate or label are determined by the customer. This certificate shall not be reproduced, except in full, without written permission of SSC. Measurements not currently on SSC's Scope of Accreditation are identified with an asterisk. As Left readings, when blank, represent no adjustment has been made from the As Found reading.

Standards Used

Standard	Description	Calibration Date	Expiration Date	Traceability
Standard-003254	Datalogger	10/02/2024	10/31/2025	Test-0789207
Standard-002654	Calibrator	07/12/2024	07/31/2025	EVL982994, EVL982995

Comments: System Scale is not responsible for changes in environmental or equipment conditions that may otherwise affect future calibrations or customer defined cycles.

Digitally Signed By: **Sean Rainey**
Sean Rainey, Quality Manager

Test Points

Certificate #: Test-0799118		Procedure: SSC-19-10.2 24 June 2021				Measurements: 9		
Number	Name	Value Applied	As Found	As Left	Uncertainty	Lower Tol.	Upper Tol.	Result
1	Temp 30°F Probe 1 (S.V.)	30 °F	30.2	30.2	0.4	29.55	30.45	PASS/PASS
2	Temp 70°F Probe 1 (S.V.)	70 °F	70.6	70.6	0.4	69.35	70.65	PASS/PASS
3	Temp 100°F Probe 1 (S.V.)	100 °F	100.4	100.4	0.4	99.2	100.8	PASS/PASS
4	Temp 30°F Probe 2 (S.V.)	30 °F	30.2	30.2	0.4	29.55	30.45	PASS/PASS
5	Temp 70°F Probe 2 (S.V.)	70 °F	70.4	70.4	0.4	69.35	70.65	PASS/PASS
6	Temp 100°F Probe 2 (S.V.)	100 °F	100.4	100.4	0.4	99.2	100.8	PASS/PASS
7	Humidity 36% (S.V.)	36 %RH	38	38	3	34	38	PASS/PASS
8	Humidity 50% (S.V.)	50 %RH	51	51	3	48	52	PASS/PASS
9	Humidity 76% (S.V.)	76 %RH	76	76	3	74	78	PASS/PASS



Certificate: Test-0799119

Accreditation Number: AC-1756

Form: 7.8.0-0 Revised 1/17/20

Certificate of Calibration

Customer Information		SSC Info	
Customer:	Airetech Corp- 72118	SSC ID#:	N/A
Address:	7631 Northshore Pl North Little Rock, AR 72118-5311	Technician:	Christopher Carter
		Location Performed:	Lab
		Work Order:	WO-0182962
Instrument Information		Certificate Information	
ID#:	62201193MV	Calibration Date:	10/24/2024
Serial #:	62201193MV	Next Calibration Due:	10/24/2025
Description:	Clamp Meter	As Found:	PASS
Manufacturer:	Fluke	As Left:	PASS
Model:	902	Temperature:	72.3 F
Capacity / Range:	Manufacturing specification V x	Humidity:	39 %

This instrument has been calibrated using standards traceable to SI units through the National Institute of Technology (NIST) or other National Metrological Institute (NMI). The uncertainties reported are expanded uncertainty values at an approximately 95% confidence level using a coverage factor of k=2. SSC certifies this instrument conforms to the procedure stated and statements of compliance are based on test results falling within the specified limits without considering the uncertainty of the measurement. This calibration complies with SSC's Quality System, which is accredited to ISO/IEC 17025:2017 and ANSI/NCSL 2540-1:1994. Results contained in this document relate only to the item calibrated. Calibration due dates appearing on the certificate or label are determined by the customer. This certificate shall not be reproduced, except in full, without written permission of SSC. Measurements not currently on SSC's Scope of Accreditation are identified with an asterisk. As Left readings, when blank, represent no adjustment has been made from the As Found reading.

Standards Used

Standard	Description	Calibration Date	Expiration Date	Traceability
Standard-002654	Calibrator	07/12/2024	07/31/2025	EVL982994, EVL982995
Standard-003254	Datalogger	10/02/2024	10/31/2025	Test-0789207

Comments: System Scale is not responsible for changes in environmental or equipment conditions that may otherwise affect future calibrations or customer defined cycles.

Digitally Signed By: **Sean Rainey**
Sean Rainey, Quality Manager

Test Points

Certificate #: Test-0799119		Procedure: Manufacturers manual			Measurements: 24			
Number	Name	Value Applied	As Found	As Left	Uncertainty	Lower Tol.	Upper Tol.	Result
1	600 V @ 60 Hz	600 V AC	599.9	599.9	0.058	593.5	606.5	PASS/PASS
2	10 V @ 60 Hz	10 V AC	10.1	10.1	0.058	9.4	10.6	PASS/PASS
3	600 V DC	600 V DC	599.9	599.9	0.058	593.5	606.5	PASS/PASS
4	0 V DC	0 V DC	0	0	0.058	-.5	.5	PASS/PASS
5	-600 V DC	-600 V DC	-599.7	-599.7	0.058	-606.5	-593.5	PASS/PASS
6	25 Ω beeper on	Ω	PASS	PASS				PASS/PASS
7	9500 Ω	9500 Ω	9510	9510	0.58	9353	9647	PASS/PASS
8	1500 Ω	1500 Ω	1500	1500	0.58	1473	1527	PASS/PASS
9	950 Ω	950 Ω	950	950	0.058	935.3	964.7	PASS/PASS
10	0 Ω	0 Ω	0	0	0.058	-.5	.5	PASS/PASS
11	200 μA DC	200 μA DC	200	200	0.058	197.5	202.5	PASS/PASS
12	10 μA DC	10 μA DC	10	10	0.058	9.4	10.6	PASS/PASS
13	0 μA DC	0 μA DC	0	0	0.058	-.5	.5	PASS/PASS
14	-200 μA DC	-200 μA DC	-200.1	-200.1	0.058	-202.5	-197.5	PASS/PASS

Test Points

Certificate #: Test-0799119			Procedure: Manufacturers manual			Measurements: 24		
Number	Name	Value Applied	As Found	As Left	Uncertainty	Lower Tol.	Upper Tol.	Result
15	-40 °C	-40 °C	-39.1	-39.1	0.23	-43.5	-36.5	PASS/PASS
16	0 °C	0 °C	.7	.7	0.23	-.8	.8	PASS/PASS
17	400 °C	400 °C	400.5	400.5	0.23	395.2	404.8	PASS/PASS
18	1 μF	1 μF	1	1	0.058	.8	1.2	PASS/PASS
19	90 μF	90 μF	90	90	0.058	88.1	91.9	PASS/PASS
20	200 μF	200 μF	200	200	0.58	195	205	PASS/PASS
21	1000 μF	1000 μF	1000	1000	0.58	979	1021	PASS/PASS
22	0.4 A @ 60 Hz	20 A AC	20.4	20.4	0.058	19.1	20.9	PASS/PASS
23	12 A @ 60 Hz	600 A AC	600	600	0.058	587.5	612.5	PASS/PASS
24	12 A @ 50 Hz	600 A AC	600	600	0.058	587.5	612.5	PASS/PASS



Certificate: Test-0799120

Accreditation Number: AC-1756

Form: 7.8.0-0 Revised 1/17/20

Certificate of Calibration

Customer Information		SSC Info	
Customer:	Airetech Corp- 72118	SSC ID#:	None
Address:	7631 Northshore Pl North Little Rock, AR 72118-5311	Technician:	Christopher Carter
		Location Performed:	Lab
		Work Order:	WO-0182962
Instrument Information		Certificate Information	
ID#:	H319421	Calibration Date:	10/24/2024
Serial #:	H319421	Next Calibration Due:	10/24/2025
Description:	Tachometer	As Found:	PASS
Manufacturer:	Extech	As Left:	PASS
Model:	461995	Temperature:	72.2 F
Capacity / Range:	19000 rpm x ± 0.05% rdg + 1 LCD	Humidity:	39 %

This instrument has been calibrated using standards traceable to SI units through the National Institute of Technology (NIST) or other National Metrological Institute (NMI). The uncertainties reported are expanded uncertainty values at an approximately 95% confidence level using a coverage factor of k=2. SSC certifies this instrument conforms to the procedure stated and statements of compliance are based on test results falling within the specified limits without considering the uncertainty of the measurement. This calibration complies with SSC's Quality System, which is accredited to ISO/IEC 17025:2017 and ANSI/NCSL Z540-1:1994. Results contained in this document relate only to the item calibrated. Calibration due dates appearing on the certificate or label are determined by the customer. This certificate shall not be reproduced, except in full, without written permission of SSC. Measurements not currently on SSC's Scope of Accreditation are identified with an asterisk. As Left readings, when blank, represent no adjustment has been made from the As Found reading.

Standards Used

Standard	Description	Calibration Date	Expiration Date	Traceability
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Standard-002654	Calibrator	07/12/2024	07/31/2025	EVL982994, EVL982995

Comments: System Scale is not responsible for changes in environmental or equipment conditions that may otherwise affect future calibrations or customer defined cycles.

Digitally Signed By: **Sean Rainey**
Sean Rainey, Quality Manager

Test Points

Certificate #: Test-0799120		Procedure: T.O. 33K6-4-869-1 - 30				Measurements: 4		
Number	Name	Value Applied	As Found	As Left	Uncertainty	Lower Tol.	Upper Tol.	Result
1	2.5 V AC @ 10 Hz = 600 rpm	600 rpm	600.1	600.1	0.22	599.6	600.4	PASS/PASS
2	2.5 V AC @ 100 Hz = 6,000 rpm	6000 rpm	5997	5997	0.34	5996	6004	PASS/PASS
3	2.5 V AC @ 200 Hz = 12,000	12,000 rpm	12001	12001	0.47	11993	12007	PASS/PASS
4	2.5 V AC @ 300 Hz = 18,000	18,000 rpm	18000	18000	0.61	17990	18010	PASS/PASS



CERTIFICATE OF CALIBRATION

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA
TEL: 1-800-874-2811 1-651-490-2811 FAX: 1-651-490-3824 www.tsi.com

ENVIRONMENT CONDITION		
TEMPERATURE	71.3	° F
RELATIVE HUMIDITY	48.4	% RH
BAROMETRIC PRESSURE	29.21	inHg

MODEL	Hydronic Manometer® HM685
SERIAL NO.	72416042

CALIBRATION STANDARDS USED
Hydronic Manometer Calibration System 1

<input checked="" type="checkbox"/> AS LEFT	<input checked="" type="checkbox"/> IN TOLERANCE
<input type="checkbox"/> AS FOUND	<input type="checkbox"/> OUT OF TOLERANCE

CALIBRATION DATA						
TESTING POINTS	DIFFERENTIAL PRESSURE MEASURED IN in.H ₂ O			DIFFERENTIAL PRESSURE MEASURED IN PSI		
	CALIBRATION STANDARD	INSTRUMENT OUTPUT	ALLOWABLE RANGE	CALIBRATION STANDARD	INSTRUMENT OUTPUT	ALLOWABLE RANGE
1	0.0	0.0	-2.0 ~ 2.0	10.01	9.991	9.838 ~ 10.18
2	25.2	25.2	23.0 ~ 27.4	25.00	24.98	24.68 ~ 25.32
3	49.9	49.8	47.4 ~ 52.4	125.9	125.9	124.6 ~ 127.2
4	100.0	99.9	97.0 ~ 103.0	227.6	227.5	225.3 ~ 229.9

TESTING POINTS	GAUGE PRESSURE MEASURED IN in.H ₂ O			GAUGE PRESSURE MEASURED IN PSI		
	CALIBRATION STANDARD	INSTRUMENT OUTPUT	ALLOWABLE RANGE	CALIBRATION STANDARD	INSTRUMENT OUTPUT	ALLOWABLE RANGE
1	0.0	-0.0	-2.0 ~ 2.0	10.01	9.999	9.838 ~ 10.18
2	25.2	25.2	23.0 ~ 27.4	25.00	24.97	24.68 ~ 25.32
3	49.9	49.9	47.4 ~ 52.4	125.9	125.8	124.6 ~ 127.2
4	100.0	99.9	97.0 ~ 103.0	227.6	227.6	225.3 ~ 229.9

TEMPERATURE MEASURED IN °F ¹					
CALIBRATION STANDARD	-37.8	5.0	77.0	158.0	230.0
INSTRUMENT OUTPUT 1	-37.77	5.05	76.98	157.97	229.92
INSTRUMENT OUTPUT 2	-37.77	5.06	76.98	157.97	229.92
ALLOWABLE RANGE	-38.2 ~ -37.4	4.8 ~ 5.2	76.8 ~ 77.2	157.8 ~ 158.2	229.6 ~ 230.4

* Indicates out of tolerance condition

¹ Circuit portion of temperature measurement only, not including probe
 TSI Incorporated does hereby certify that the above described instrument conforms to the original manufacturer's specifications (not applicable to As Found data) and has been calibrated using standards whose accuracies are traceable to the National Institute of Standards and Technology within the limitations of NIST's calibration services or have been derived from accepted values of natural physical constants or have been derived by the ratio type of self calibration techniques. The calibration ratio for this instrument is better than 1:1. TSI is registered to ISO-9001:2015 and complies with ISO 10012:2003, Quality Assurance Requirements for Measuring Equipment. This report may not be reproduced, except in full, unless permission for the publication of an approved abstract is obtained in writing from the calibration organization issuing this report.

Measurement Variable	System ID Number	Date Last Calibrated	Calibration Due Date
DC Voltage	E002815	12-06-23	06-30-25
DC Voltage	E002818	12-06-23	06-30-25
Pressure	E011099	05-11-24	05-31-25

Calibration procedure used: 10000026004

Calibrated By

Aug. 13, 2024

Calibration Date

ABBREVIATIONS

<u>SYMBOL</u>	<u>DESCRIPTION</u>	<u>SYMBOL</u>	<u>DESCRIPTION</u>
A	AMPS	HP	HEAT PUMP
AHU	AIR HANDLING UNIT	HW	HEATING WATER
BCU	BLOWER COIL UNIT	KEF	KITCHEN EXHAUST FAN
BTU	BRITISH THERMAL UNIT	LAT	LEAVING AIR TEMPERATURE
CD	CEILING DIFFUSER	LWT	LEAVING WATER TEMPERATURE
CFM	CUBIC FEET PER MINUTE	M/N	MODEL NUMBER
CH	CHILLER	MAT	MIXED AIR TEMPERATURE
CHW	CHILLED WATER	MAU	MAKE UP AIR UNIT
CW	CONDENSER WATER	NA	NOT APPLICABLE
COMP	COMPRESSOR	NL	NOT LISTED
COND	CONDENSER	NLA	NO LOAD AMPS
CRAC	COMPUTER ROOM AIR CONDITIONING	OAT	OUTSIDE AIR TEMPERATURE
CW	CHILL WATER	OAU	OUTSIDE AIR UNIT
DALT	DUCT AIR LEAKAGE TEST	OED	OPEN ENDED DUCT
DB	DRY BULB	PH	PRE-HEAT
DP	DIFFERENTIAL PRESSURE	RG	RETURN GRILLE
DP	DISCHARGE PRESSURE	RH	RE-HEAT
EAT	ENTERING AIR TEMPERATURE	RLA	RUN LOAD AMPS
EF	EXHAUST FAN	RTU	ROOF TOP UNIT
EG	EXHAUST GRILLE	S/N	SERIAL NUMBER
ERU	ENERGY RECOVERY UNIT	SF	SUPPLY FAN
ERV	ENERGY RECOVERY VENTILATOR	SG	SIDEWALL GRILLE
ESP	EXTERNAL STATIC PRESSURE	SP	SUCTION PRESSURE
EVAP	EVAPORATOR	TSP	TOTAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE	V	VOLTS
FCU	FAN COIL UNIT	VAV	VARIABLE AIR VOLUME
FP	FAN POWERED	VRF	VARIABLE REFRIGERANT
FPM	FEET PER MINUTE	WB	WET BULB
GPM	GALLONS PER MINUTE		



REPORT SUMMARY

Test, adjust, and balance work was performed at the Hugg and Hall Mobile Storage project. The scope of work included 3 air handling units and 2 exhaust fans.

AIR HANDLING UNITS

The supply grille airflows were measured with a direct reading flow hood, totaled, fan speeds adjusted as necessary, and grilles proportionally balanced. The outside air flow was measured and adjusted to provide design minimum outside air flow. The return grille airflows were measured and proportionally balanced. Unit operating data, temperatures, and static pressures were measured and recorded.

EXHAUST FANS

The exhaust fan airflows were measured with a direct reading flow hood and fan speeds adjusted as necessary.

Air Handling Unit

PROJECT: Hugg and Hall Mobile Storage
 LOCATION: Little Rock, AR
 PROJECT #: 77910

DATE: 2/4/2025
 CONTACT: Elizabeth Amador
 AUTHOR:

SYSTEM/UNIT: AHU-01

Tested By: Patrick McBride
 Date: 1/31/2025

Unit Data	
Unit Manufacturer	Aaon
Unit Model Number	RQA-003-A-A-8-FJB02-S0-21-000-A
Unit Serial Number	202409-AYEC07619
Unit Discharge	Vertical
AHU-01/SF Filter Bank	
Filter Type	Pleated
MERV Rating	8
Filter Qty - S1	2
Filter Size - S1	20x20x2

Test Data	
Design Airflow	1200 CFM
Actual Airflow	1228 CFM
Design Outside Airflow	180 CFM
Actual Outside Airflow	192 CFM
Design Return Airflow	1020 CFM
Actual Return Airflow	1036 CFM
AHU-01/Supply Fan	
Design RPM	1385 RPM
Actual RPM	1232 RPM
Motor Volts T1-T2	212 Volts
Motor Amps T1	5.20 Amps

Motor Data	
AHU-01/Supply Fan	
Motor HP	1 HP
Motor RPM	1760 RPM
Motor Rated Volts	208 Volts
Motor Phase	1
Motor Hertz	60 Hz
Motor FL Amps	7 Amps
Corrected FL Amps	6.87 Amps
Belt Drive/Direct Drive	Direct Drive
Direct Drive Speed	70%

Test Pressures	
Suction SP	-1.12 in. wc
Discharge SP	0.38 in. wc
Design Total SP	1.88 in. wc
Actual Total SP	1.50 in. wc
Design ESP	1.05 in. wc
Actual ESP	1.09 in. wc
O/A Damper Position	12 %
R/A Damper Position	88 %

Air Test Data	
AHU-01/Cooling Coil	
Ent. Air DB Temp Actual	69.0 Deg F
Ent. Air WB Temp Actual	60.0 Deg F
Lvg. Air DB Temp Actual	52.0 Deg F
Lvg. Air WB Temp Actual	51.0 Deg F
Air Temp Delta T Actual	17.0 Deg F
AHU-01/Heating Coil	
Ent. Air DB Temp Actual	68.0 Deg F
Lvg. Air DB Temp Actual	97.0 Deg F
Air Temp Delta T Actual	29.0 Deg F

Log:	AHU-01	1/30/2025	Patrick McBride	Design OSA and total return inlet design does not equal total supply design. OSA set to design, return balanced proportionally.
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Air Handling Unit

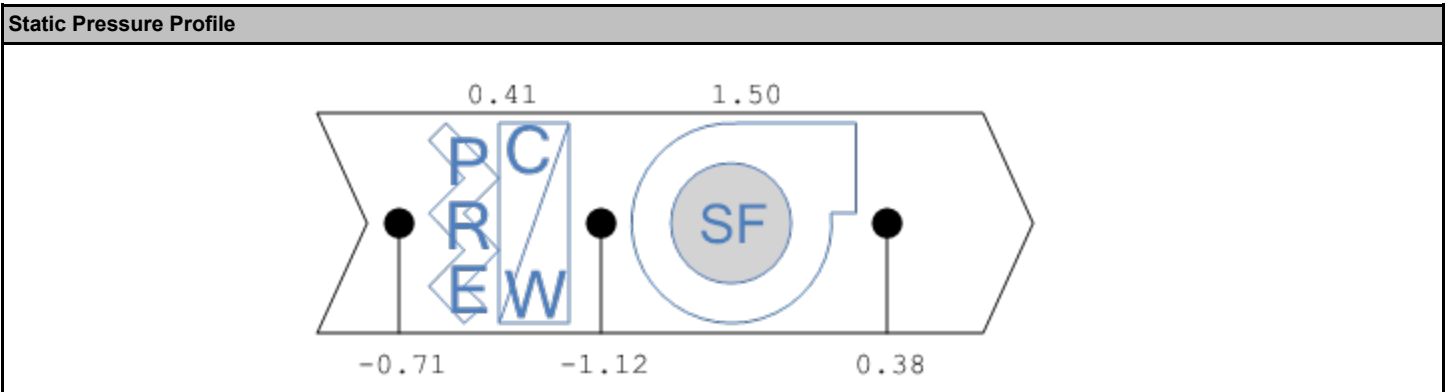
PROJECT: Hugg and Hall Mobile Storage
 LOCATION: Little Rock, AR
 PROJECT #: 77910

DATE: 2/4/2025
 CONTACT: Elizabeth Amador
 AUTHOR:

SYSTEM/UNIT: AHU-01/SPP-01

Tested By: Patrick McBride
 Date: 1/31/2025

Test Pressures	
Pre Filter/Cooling Coil SP In	-0.71 in. w.c.
Pre Filter/Cooling Coil SP Out	-1.12 in. w.c.
Supply Fan SP In	-1.12 in. w.c.
Supply Fan SP Out	0.38 in. w.c.



AHU-01 Supply Outlet Summary

System/Unit	Area Served	Outlet Type	Size LxW / D	Design Airflow	Prelim Airflow	% Prelim Diff.	Final Airflow	% Final Diff.	Instrument
Outlet-01	06	S4	9/5	185	356	192.4	176	95.1	Evergreen
Outlet-02	07	S4	9/5	185	368	198.9	183	98.9	Evergreen
Outlet-03	08	S4	9/5	185	375	202.7	197	106.5	Evergreen
Outlet-04	09	S4	9/5	185	378	204.3	199	107.6	Evergreen
Outlet-05	10	S1	8	230	271	117.8	228	99.1	Evergreen
Outlet-06	10	S1	8	230	290	126.1	245	106.5	Evergreen
Totals:	-	-	-	1200	2038	169.8	1228	102.3	-

AHU-01 Return Inlet Summary

System/Unit	Area Served	Inlet Type	Size LxW / D	Design Airflow	Prelim Airflow	% Prelim Diff.	Final Airflow	% Final Diff.	Instrument
Inlet-01	06	R1	6/22	185	181	97.8	152	82.2	Evergreen
Inlet-02	07	R1	6/22	185	216	116.8	153	82.7	Evergreen
Inlet-03	08	R1	6/22	185	310	167.6	156	84.3	Evergreen
Inlet-04	09	R1	6/22	185	384	207.6	159	85.9	Evergreen
Inlet-05	10	R1	6/22	460	429	93.3	416	90.4	Evergreen
Totals:	-	-	-	1200	1520	126.7	1036	86.3	-



Air Handling Unit

PROJECT: Hugg and Hall Mobile Storage
LOCATION: Little Rock, AR
PROJECT #: 77910

DATE: 2/4/2025
CONTACT: Elizabeth Amador
AUTHOR:

SYSTEM/UNIT: AHU-02

Tested By: Patrick McBride
 Date: 1/31/2025

Unit Data	
Unit Manufacturer	Aaon
Unit Model Number	RQA-003-A-A-8-FJB02-S0-21-000-A
Unit Serial Number	202409-AYEC07620
Unit Discharge	Vertical
AHU-02/SF Filter Bank	
Filter Type	Pleated
MERV Rating	8
Filter Qty - S1	2
Filter Size - S1	20x20x2

Test Data	
Design Airflow	1200 CFM
Actual Airflow	1257 CFM
Design Outside Airflow	180 CFM
Actual Outside Airflow	191 CFM
Design Return Airflow	1020 CFM
Actual Return Airflow	1066 CFM
AHU-02/Supply Fan	
Design RPM	1385 RPM
Actual RPM	1408 RPM
Motor Volts T1-T2	212 Volts
Motor Amps T1	5.60 Amps

Motor Data	
AHU-02/Supply Fan	
Motor HP	1 HP
Motor RPM	1760 RPM
Motor Rated Volts	208 Volts
Motor Phase	1
Motor Hertz	60 Hz
Motor FL Amps	7 Amps
Corrected FL Amps	6.87 Amps
Belt Drive/Direct Drive	Direct Drive
Direct Drive Speed	80 %

Test Pressures	
Suction SP	-1.11 in. wc
Discharge SP	0.47 in. wc
Design Total SP	1.88 in. wc
Actual Total SP	1.58 in. wc
Design ESP	1.05 in. wc
Actual ESP	1.19 in. wc
O/A Damper Position	14 %
R/A Damper Position	86 %

Air Test Data	
AHU-02/Cooling Coil	
Ent. Air DB Temp Actual	70.0 Deg F
Ent. Air WB Temp Actual	60.0 Deg F
Lvg. Air DB Temp Actual	53.0 Deg F
Lvg. Air WB Temp Actual	52.0 Deg F
Air Temp Delta T Actual	17.0 Deg F
AHU-02/Heating Coil	
Ent. Air DB Temp Actual	69.0 Deg F
Lvg. Air DB Temp Actual	94.0 Deg F
Air Temp Delta T Actual	25.0 Deg F

Log:	AHU-02	1/30/2025	Patrick McBride	Design OSA and total return inlet design does not equal total supply design. OSA set to design, return balanced proportionally.
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Air Handling Unit

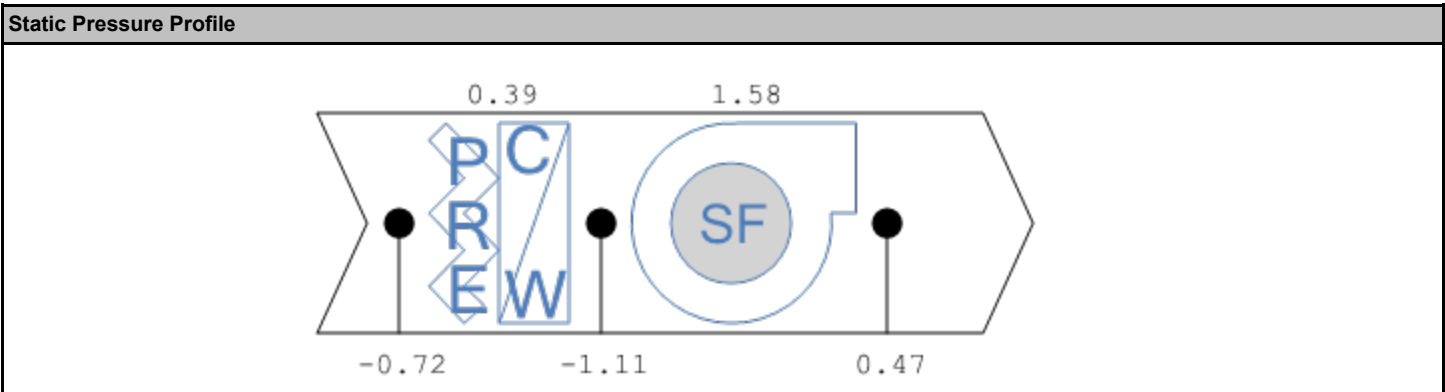
PROJECT: Hugg and Hall Mobile Storage
 LOCATION: Little Rock, AR
 PROJECT #: 77910

DATE: 2/4/2025
 CONTACT: Elizabeth Amador
 AUTHOR:

SYSTEM/UNIT: AHU-02/SPP-01

Tested By: Patrick McBride
 Date: 1/31/2025

Test Pressures	
Pre Filter/Cooling Coil SP In	-0.72 in. w.c.
Pre Filter/Cooling Coil SP Out	-1.11 in. w.c.
Supply Fan SP In	-1.11 in. w.c.
Supply Fan SP Out	0.47 in. w.c.



AHU-02 Supply Outlet Summary

System/Unit	Area Served	Outlet Type	Size LxW / D	Design Airflow	Prelim Airflow	% Prelim Diff.	Final Airflow	% Final Diff.	Instrument
Outlet-01	HALLWAY	S1	8	225	264	117.3	234	104.0	Evergreen
Outlet-02	17	S2	6/6	100	98	98.0	104	104.0	Evergreen
Outlet-03	16	S2	6/6	50	48	96.0	52	104.0	Evergreen
Outlet-04	15	S2	6/6	50	107	214.0	51	102.0	Evergreen
Outlet-05	23	S1	8	225	252	112.0	231	102.7	Evergreen
Outlet-06	11	S4	9/5	150	140	93.3	155	103.3	Evergreen
Outlet-07	12	S1	8	200	220	110.0	212	106.0	Evergreen
Outlet-08	12	S1	8	200	253	126.5	218	109.0	Evergreen
Totals:		-	-	1200	1382	115.2	1257	104.8	-

AHU-02 Return Inlet Summary

System/Unit	Area Served	Inlet Type	Size LxW / D	Design Airflow	Prelim Airflow	% Prelim Diff.	Final Airflow	% Final Diff.	Instrument
Inlet-01	HALLWAY	R2	10/22	800	674	84.3	709	88.6	Evergreen
Inlet-02	12	R1	6/22	400	534	133.5	357	89.3	Evergreen
Totals:		-	-	1200	1208	100.7	1066	88.8	-



Air Handling Unit

PROJECT: Hugg and Hall Mobile Storage
LOCATION: Little Rock, AR
PROJECT #: 77910

DATE: 2/4/2025
CONTACT: Elizabeth Amador
AUTHOR:

SYSTEM/UNIT: AHU-03

Tested By: Patrick McBride
 Date: 1/31/2025

Unit Data	
Unit Manufacturer	Aaon
Unit Model Number	RQA-003-A-A-8-FJB02-S0-21-000-A
Unit Serial Number	202409-AYEC07621
Unit Discharge	Vertical
AHU-03/SF Filter Bank	
Filter Type	Pleated
MERV Rating	8
Filter Qty - S1	2
Filter Size - S1	20x20x2

Test Data	
Design Airflow	1200 CFM
Actual Airflow	1219 CFM
Design Outside Airflow	180 CFM
Actual Outside Airflow	184 CFM
Design Return Airflow	1020 CFM
Actual Return Airflow	1035 CFM
AHU-03/Supply Fan	
Design RPM	1385 RPM
Actual RPM	1408 RPM
Motor Volts T1-T2	212 Volts
Motor Amps T1	5.70 Amps

Motor Data	
AHU-03/Supply Fan	
Motor HP	1 HP
Motor RPM	1760 RPM
Motor Rated Volts	208 Volts
Motor Phase	1
Motor Hertz	60 Hz
Motor FL Amps	7 Amps
Corrected FL Amps	6.87 Amps
Belt Drive/Direct Drive	Direct Drive
Direct Drive Speed	80 %

Test Pressures	
Suction SP	-0.92 in. wc
Discharge SP	0.6 in. wc
Design Total SP	1.88 in. wc
Actual Total SP	1.52 in. wc
Design ESP	1.05 in. wc
Actual ESP	1.22 in. wc
O/A Damper Position	15 %
R/A Damper Position	85 %

Air Test Data	
AHU-03/Cooling Coil	
Ent. Air DB Temp Actual	70.0 Deg F
Ent. Air WB Temp Actual	60.0 Deg F
Lvg. Air DB Temp Actual	52.0 Deg F
Lvg. Air WB Temp Actual	51.0 Deg F
Air Temp Delta T Actual	18.0 Deg F
AHU-03/Heating Coil	
Ent. Air DB Temp Actual	68.0 Deg F
Lvg. Air DB Temp Actual	97.0 Deg F
Air Temp Delta T Actual	29.0 Deg F

Log:	AHU-03	1/30/2025	Patrick McBride	Design OSA and total return inlet design does not equal total supply design. OSA set to design, return balanced proportionally.
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Air Handling Unit

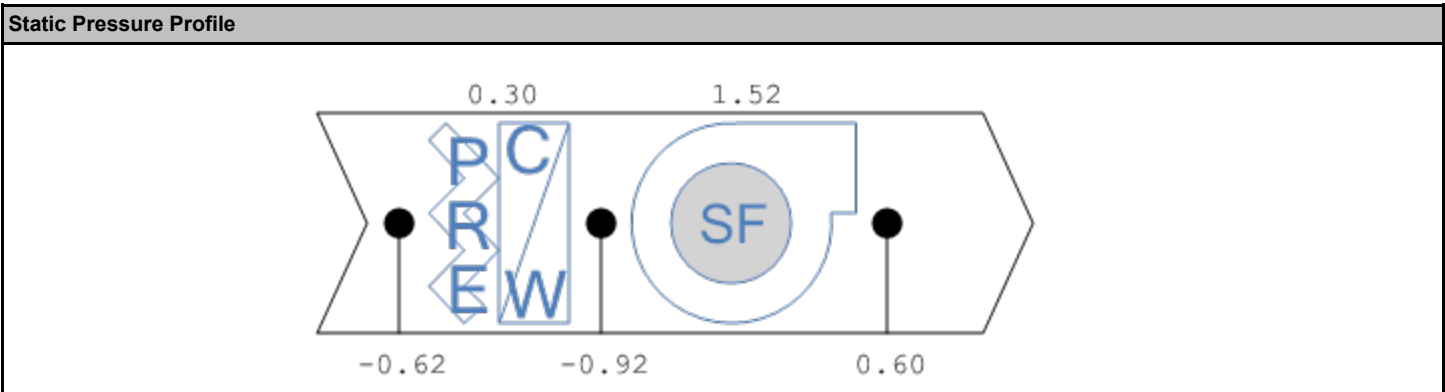
PROJECT: Hugg and Hall Mobile Storage
 LOCATION: Little Rock, AR
 PROJECT #: 77910

DATE: 2/4/2025
 CONTACT: Elizabeth Amador
 AUTHOR:

SYSTEM/UNIT: AHU-03/SPP-01

Tested By: Patrick McBride
 Date: 1/31/2025

Test Pressures	
Pre Filter/Cooling Coil SP In	-0.62 in. w.c.
Pre Filter/Cooling Coil SP Out	-0.92 in. w.c.
Supply Fan SP In	-0.92 in. w.c.
Supply Fan SP Out	0.60 in. w.c.



AHU-03 Supply Outlet Summary

System/Unit	Area Served	Outlet Type	Size LxW / D	Design Airflow	Prelim Airflow	% Prelim Diff.	Final Airflow	% Final Diff.	Instrument
Outlet-01	05	S1	8	250	315	126.0	269	107.6	Evergreen
Outlet-02	04	S1	8	200	303	151.5	213	106.5	Evergreen
Outlet-03	04	S1	8	200	284	142.0	215	107.5	Evergreen
Outlet-04	03	S3	6/5	220	160	72.7	201	91.4	Evergreen
Outlet-05	02	S1	8	110	391	355.5	118	107.3	Evergreen
Outlet-06	01	S1	8	220	105	47.7	203	92.3	Evergreen
Totals:		-	-	1200	1558	129.8	1219	101.6	-

AHU-03 Return Inlet Summary

System/Unit	Area Served	Inlet Type	Size LxW / D	Design Airflow	Prelim Airflow	% Prelim Diff.	Final Airflow	% Final Diff.	Instrument
Inlet-01	05	R1	6/22	250	173	69.2	216	86.4	Evergreen
Inlet-02	04	R1	6/22	400	207	51.8	344	86.0	Evergreen
Inlet-03	03	R1	6/22	110	243	220.9	94	85.5	Evergreen
Inlet-04	02	R1	6/22	220	290	131.8	187	85.0	Evergreen
Inlet-05	01	R1	6/22	220	309	140.5	194	88.2	Evergreen
Totals:		-	-	1200	1222	101.8	1035	86.3	-



Fan Unit

PROJECT: Hugg and Hall Mobile Storage
 LOCATION: Little Rock, AR
 PROJECT #: 77910

DATE: 2/4/2025
 CONTACT: Elizabeth Amador
 AUTHOR:

SYSTEM/UNIT: EF-01

Tested By: Patrick McBride
 Date: 1/30/2025

Unit Data	
Fan Manufacturer	Cook
Fan Model Number	Gemini 160

Motor Data	
Motor Manufacturer	Queace
Motor Rated Volts	115 Volts
Motor Phase	1
Motor Hertz	60 Hz
Motor FL Amps	0.51 Amps
Corrected FL Amps	0.50 Amps
Motor Type	Direct Drive

Test Data	
Design Airflow	150 CFM
Actual Airflow	142 CFM
Motor Volts T1-T2	118 Volts
Motor Amps T1	0.4 Amps

EF-01 Exhaust Inlet Summary

System/Unit	Area Served	Inlet Type	Size LxW / D	Design Airflow	Prelim Airflow	% Prelim Diff.	Final Airflow	% Final Diff.	Instrument
Inlet-01	15	E1	6/6	150	142	94.7	142	94.7	Evergreen
Totals:		-	-	150	142	94.7	142	94.7	-

SYSTEM/UNIT: EF-02

Tested By: Patrick McBride
 Date: 1/30/2025

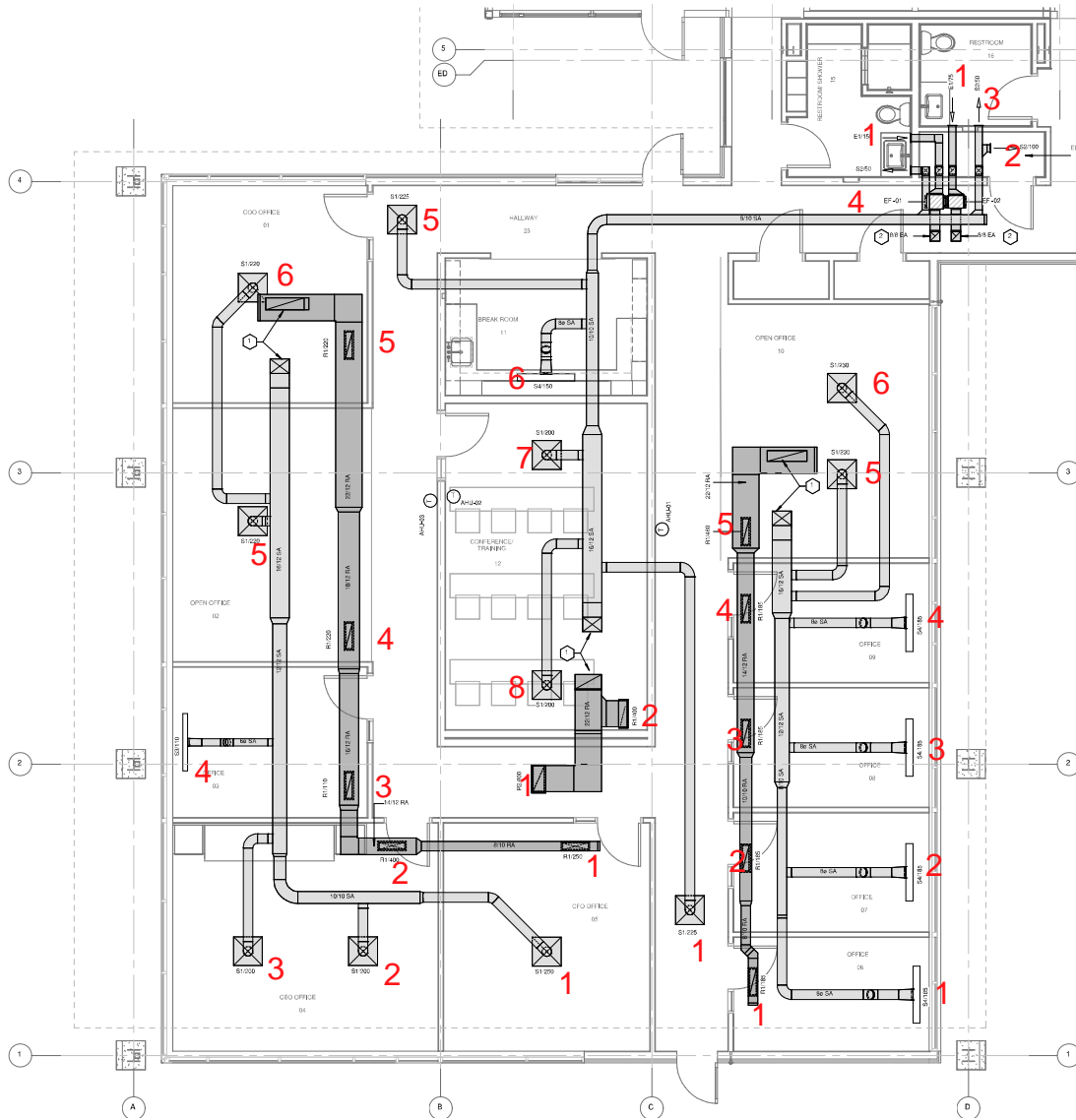
Unit Data	
Fan Manufacturer	Cook
Fan Model Number	Gemini 160

Motor Data	
Motor Manufacturer	Queace
Motor Rated Volts	115 Volts
Motor Phase	1
Motor Hertz	60 Hz
Motor FL Amps	0.51 Amps
Corrected FL Amps	0.50 Amps

Test Data	
Design Airflow	75 CFM
Actual Airflow	79 CFM
Motor Volts T1-T2	118 Volts
Motor Amps T1	0.35 Amps

EF-02 Exhaust Inlet Summary

System/Unit	Area Served	Inlet Type	Size LxW / D	Design Airflow	Prelim Airflow	% Prelim Diff.	Final Airflow	% Final Diff.	Instrument
Inlet-01	16	E1	6/6	75	79	105.3	79	105.3	Evergreen
Totals:		-	-	75	79	105.3	79	105.3	-



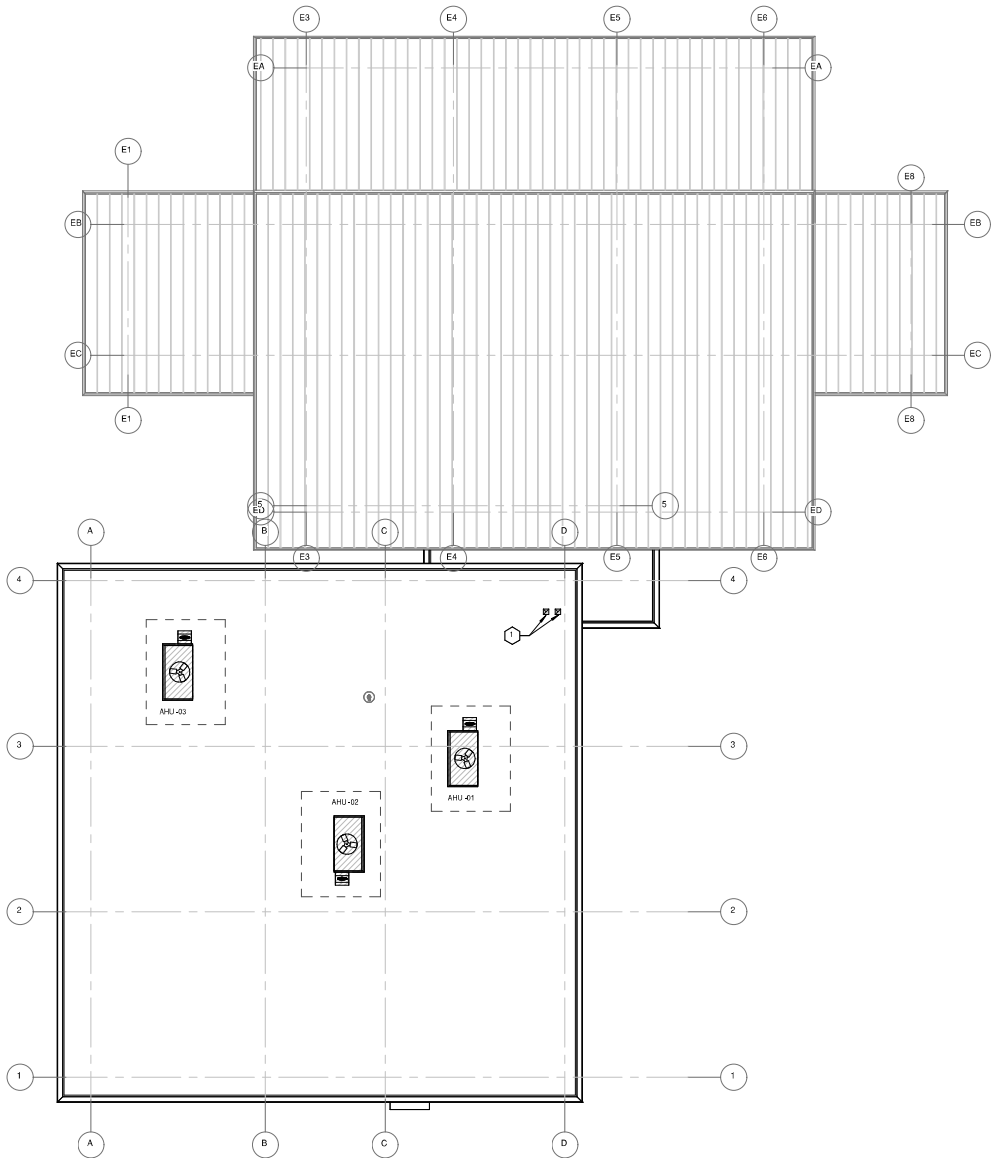
HVAC - BRANCH DUCT CONNECTIONS

*Note: For Rectangular Ducts, shortest dimension reflects depth of duct.

DESIGNATION	INLET Ø	INLET HT.	INLET W.
S1			
S2	6"	6"	
S3	5 1/4"	6 1/4"	
S4	5 1/4"	9 1/2"	
R1	6"	22"	
R2	10"	22"	
R3	10"	12"	
E1	6"	6"	

- GENERAL NOTES:**
1. THE RIGIDITY SHALL BE INSTALLED NEXT TO LIGHT SWITCH OR ASSOCIATED ROOM FOR EACH BRANCH. NEAR TOP OF THERMOSTAT WITH TOP OF LIGHT SWITCH FACE PLATE.
 2. PROTECT BRANCH DUCTS FROM DAMAGE AT EACH TAKEOFF AND FINAL TAKEOFF. BRANCH DUCT SHALL BE PROTECTED BY A 1/2" THICK FIBERGLASS INSULATION SHEATHING TO MEET ALL LOCAL AND NATIONAL REQUIREMENTS.
 3. ALL TAKEOFFS SHALL BE HARDWIRED AND WALL-MOUNTED.
- KEY NOTES:**
1. UP TO ARI ON FLOOR.
 2. EA DUCT UP TO FAN MANUFACTURER FURNISHED DUCT CAP ON FLOOR.





GENERAL NOTES:
 1. ROUTE ALL CONDENSATE DRAIN PIPING TO
 2. MAINTAIN 10' MIN CLEARANCE BETWEEN EXH
KEYED NOTES:
 1. EXHAUST FAN MANUFACTURER'S FLAT RO
 INTEGRAL FLASHING AND INSECT SCREEN.