



ENVIRONMENTAL SYSTEMS TEST AND BALANCE SUBMITTAL

302 E 132nd Avenue
Tampa, Florida 33612
Phone: 813-930-5193 – Fax: 813-930-5193
Omnibalancing@outlook.com

SUBMITTAL FOR TEST AND BALANCE OF AIR AND WATER SYSTEMS

Contents

- NEBB Firm TAB Certification
- NEBB Firm Vibration Certification
- State of Florida – Corporate Certificate
- Certificate of Insurance
- Business License
- W-9
- Standard Procedures
- Services
- Field Experience
- Drug-Free Workplace Certification
- Sample Report Forms
 - ❖ Cover Page
 - ❖ Certification
 - ❖ Table Of Contents
 - ❖ Project Summary
 - ❖ Guarantee
 - ❖ AHU Data Sheet
 - ❖ AHU Static Pressure Profile
 - ❖ AHU Duct Traverse Sheet
 - ❖ AHU Variable Air Volume Terminal Unit Data Sheet
 - ❖ AHU Fan Powered Terminal Unit Data Sheet
 - ❖ AHU Air Distribution Sheet
 - ❖ Fan Data Sheet
 - ❖ Fume Hood Test Sheet
 - ❖ Pump Data Sheet
 - ❖ Water Cooled Chiller Test Sheet
 - ❖ Circuit Setter Water Balance Sheet
 - ❖ Cooling Tower Test Sheet
 - ❖ Instruments
 - ❖ Instruments Certificates of Calibration
 - ❖ Abbreviations



Firm Certification

OMNI BALANCING SOLUTIONS INC

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

Testing, Adjusting and Balancing of Environmental Systems


3854

NEBB Certification Number

March 31, 2024

Expiration Date


NEBB President


NEBB President-Elect



Firm Certification

OMNI BALANCING SOLUTIONS INC

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

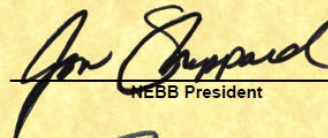
Vibration Measurement

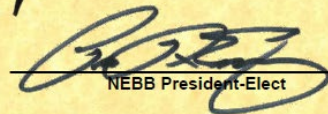
3854

NEBB Certification Number

March 31, 2024

Expiration Date


NEBB President


NEBB President-Elect

State of Florida Department of State

I certify from the records of this office that OMNI BALANCING SOLUTIONS, INC. is a corporation organized under the laws of the State of Florida, filed on May 13, 2021, effective May 13, 2021.

The document number of this corporation is P21000045521.

I further certify that said corporation has paid all fees due this office through December 31, 2022, that its most recent annual report/uniform business report was filed on January 7, 2022, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Seventh day of January, 2022*



Samuel R. Bee
Secretary of State

Tracking Number: 7004729260CC

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

10/20/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Adcock-Adcock Insurance Agency 315 W. Fletcher Ave. Tampa FL 33612-3414		CONTACT NAME: Tracey Moore PHONE (A/C, No. Ext): 813-933-6691 E-MAIL ADDRESS: traceym@adcock-insurance.com FAX (A/C, No): 813-932-6287	
		INSURER(S) AFFORDING COVERAGE	NAIC #
		INSURER A: Lloyd's of London	
INSURED Omni Balancing Solutions, Inc. 302 E 132nd Avenue Tampa FL 33612		INSURER B: Technology Insurance Co.	42376
		INSURER C:	
		INSURER D:	
		INSURER E:	
		INSURER F:	

COVERAGES

CERTIFICATE NUMBER: 263127164

REVISION NUMBER:


THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			PSL0139496217	7/29/2022	7/29/2023	EACH OCCURRENCE \$ 3,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 250,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 3,000,000 GENERAL AGGREGATE \$ 3,000,000 PRODUCTS - COMP/OP AGG \$ 3,000,000 \$
A	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY			PSL0139496217	7/29/2022	7/29/2023	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y / N <input type="checkbox"/>	N / A	TWC4122711	7/29/2022	7/29/2023	<input checked="" type="checkbox"/> PER STATUTE <input checked="" type="checkbox"/> OTH-ER Employers Liab E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A	Professional Liability			PSL0139496217	7/29/2022	7/29/2023	General Aggregate Deductible 1,000,000 5,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

CANCELLATION

Omni Balancing Solutions, Inc. 302 East 132nd Avenue Tampa FL 33612	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
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2022 - 2023 HILLSBOROUGH COUNTY BUSINESS TAX RECEIPT

EXPIRES SEPTEMBER 30, 2023

OCC. CODE

280.052006 CONSULTANT

ACCOUNT NO.

69176

RENEWAL

3 Employees

Receipt Fee

22.00

Hazardous Waste Surcharge

0.00

Law Library Fee

0.00

BUSINESS OMNI BALANCING SOLUTIONS INC
302 E 132ND AVE
TAMPA, FL 33612

2022 - 2023

NAME OMNI BALANCING SOLUTIONS INC
MAILING 302 E 132ND AVE
ADDRESS TAMPA, FL 33612

Paid 21-0-481102

07/05/2022 22.00

BUSINESS TAX RECEIPT

NANCY C MILLAN, TAX COLLECTOR

813-635-5200

THIS BECOMES A TAX RECEIPT WHEN VALIDATED.

HAS HEREBY PAID A PRIVILEGE TAX TO ENGAGE
IN BUSINESS, PROFESSION, OR OCCUPATION SPECIFIED HEREON

Form **W-9**
(Rev. October 2018)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

► Go to www.irs.gov/FormW9 for instructions and the latest information.

Give Form to the
requester. Do not
send to the IRS.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.
Omni Balancing Solutions, Inc.

2 Business name/disregarded entity name, if different from above

3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only **one** of the following seven boxes.

☐ Individual/sole proprietor or single-member LLC

☒ C Corporation ☐ S Corporation ☐ Partnership ☐ Trust/estate

☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ►

Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.

☐ Other (see instructions) ►

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) _____

Exemption from FATCA reporting code (if any) _____

(Applies to accounts maintained outside the U.S.)

5 Address (number, street, and apt. or suite no.) See instructions.
302 E. 132nd Avenue

6 City, state, and ZIP code
Tampa, Florida 33612

7 List account number(s) here (optional)

8 Requester's name and address (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number

____ - ____ - ____

or

Employer identification number

8 7 - 0 8 2 2 7 9 7

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign
Here

Signature of
U.S. person ►

Alus Richards

Date ►

6/22/22

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.

STANDARD PROCEDURES

Preliminary Procedures

- 1) Obtain and evaluate the plans, specifications, and any equipment submittals to determine the best testing approach as well as consolidate the specified information.
- 2) Inspect the equipment on-site to confirm proper installation and verify that the job is ready for test and balance.

Air Side Balancing

- 1) Verify that the units and all associated controls such as motorized dampers, interlocks, shutdowns, and safety switches are operating properly.
- 2) With units at maximum flow and all associated manual dampers, outside air dampers, fire dampers, etc. open; test units for total air flow via the preferred method of Pitot Tube traverse. Any adjustments to the system will be performed or recommended (depending on the system's capabilities) in order to obtain the design air flow. Once at design air flow, check the load on the fan motor, set the approximate design volume outside air, and confirm unit static pressures are within specified tolerance.
- 3) Balance the associated air distribution systems to design flow via the supplied manual volume dampers.
- 4) If system is multizone, confirm that all zone dampers are set to full cooling during step #1 and ensure that the entire system is balanced while zone dampers are still seeking maximum cooling.
- 5) If system is variable air volume, there are specialized procedures for testing these various types of systems. The specific testing methods will depend on the types of terminal units being balanced.
- 6) Take final readings on the air handlers to include: fan motor load, outside air volume, and static pressures.

Water Side Balancing

- 1) Verify that controls are functioning, air has been vented, strainers are clean, and manual valves are open.
- 2) Confirm pump impeller sizes and set pumps for design water flow using provided pump curves.
- 3) After ensuring that all connected terminal units are seeking max water flow, balance the water on the entire distribution system to design flow.
- 4) If system uses air-cooled chillers, they will then be double checked for water flow and tested for temperatures and cooling performance.
- 5) If system uses water-cooled chillers, they will then be balanced on the condenser water side via the same method as steps #1 - #2 above. Once condenser water flow is at design, evaporator water flow will be double checked and the chillers will be tested for temperatures and cooling performance.

Finalization

- 1) After complete balancing of all air and water systems, total cooling performance for all equipment will then be tested and any final adjustments will be made. A report will then be consolidated and sent to the customer.



Certification No. 3854

TEST AND BALANCE SERVICES

Omni Balancing Solutions, Inc. is an experienced and dedicated team of individuals in the field of Test and Balance. At Omni, our focus on integrity and customer satisfaction helps us to offer you these services:

- Air Testing and Balancing
- Hydronic Testing and Balancing
- Sound and Vibration Testing
- Fume Hood Systems Testing
- Surveys of Air and Hydronic Systems
- Annual/Semi-Annual/Quarterly Testing
- Pre-Testing and Post Testing Verification
- Duct Leakage Witnessing



FIELD EXPERIENCE

Omni Balancing Solutions, Inc. offers a well experienced and reliable wealth of knowledge in the field of Test and Balance. With occupant comfort and safety being at the forefront of environmental system work, we are excited to share and use our experience to help you establish and maintain a safe and comfortable environmental system. A few of the institutions we have balanced and performed work in include:

- Ambulatory Centers
- Banks
- Clean Rooms
- Convention Centers
- Detention Centers
- Department Stores/Retail Stores
- Education Facilities
- Fire Stations
- Fitness Facilities
- Government Institutions
- Grocery Stores
- Hospitals
- Libraries
- Medical Office Buildings
- Office Buildings
- Pharmaceutical Labs/Buildings
- Public Utilities
- Pump Stations
- Research Facilities
- Restaurants
- Shopping Centers
- Stadiums
- Storage Facilities
- Surgery Centers



DRUG-FREE WORKPLACE CERTIFICATION

Omni Balancing Solutions, Inc. has created a Drug-Free Workplace program by meeting the following requirements:

- Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
- Informing the employees about the dangers of drug abuse in the workplace, the business policy of maintaining a drug-free workplace, any available counseling, rehabilitation and employee assistance programs and the penalties that may be imposed upon employees for drug abuse violations.
- Imposing a sanction on or requiring the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
- Making a good faith effort to continue to maintain a drug-free work environment through the implementation of this sanction.

CERTIFIED TESTING, ADJUSTING, AND BALANCING REPORT

Date:

Project #: 22-200

Project Name:

Sample Report
123 ABC Drive
Tampa, Florida 33612

Design Engineer:

NG

HVAC Contractor:

NG

NEBB Certified Professional

Dean Davis, III

NEBB Certified Firm #3854

302 E 132nd Avenue
Tampa, Florida 33612
Phone: 813-930-5193 – Fax: 813-930-5193
Omnibalancing@outlook.com



CERTIFICATION

Date:

Project #: 22-200

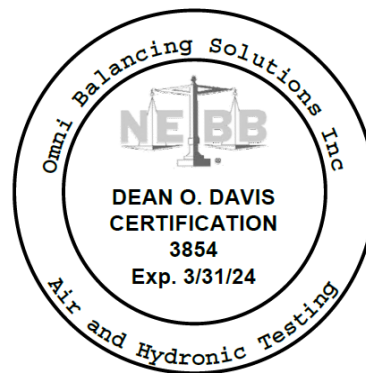
Project Name:

Sample Report
111 ABC Drive
Tampa, Florida 33612

"The data presented in this report is a record of system measurements and final adjustments that have been obtained in accordance with the current edition of the NEBB *Procedural Standard for Testing, Adjusting and Balancing of Environmental Systems*. The measurements shown, and the information given, in this report are certified to be accurate and complete, at the time and date information was gathered. Any variances from design quantities, which exceed NEBB tolerances, are noted in the TAB report project summary."

A handwritten signature in black ink, appearing to read "Dean Davis, III". The signature is written in a cursive style with a large, looped "D" and a stylized "D" for "Davis".

Dean Davis, III, CP - Vice President
Omni Balancing Solutions, Inc.



Certification No. 3854

Certification Expiration Date: March 31, 2024

TABLE OF CONTENTS

Cover Page	1
Certification	2
Table of Contents	3
Project Summary	4
Guarantee	5
AHU Data Sheet	6
AHU Static Pressure Profile	7
AHU Duct Traverse Summary	8
AHU Variable Air Volume Terminal Unit Data Sheet	9
AHU Fan Powered Terminal Unit Data Sheet	10
AHU Air Distribution Test Sheet	11
Fan Data Sheet	12
Fume Hood Test Sheet	13
Pump Data Sheet	14
Air Cooled Chiller Test Sheet	15
Circuit Setter Water Balance Sheet	16
Cooling Tower Test Sheet	17
Instruments	18
Instruments Certificates of Calibration	19-30
Abbreviations	31-32



PROJECT SUMMARY

Project #: 22-200

Project Name:

Sample Report
123 ABC Drive
Tampa, Florida 33612

All information contained in this report is an accurate and true representation of the installed equipment and has been verified as of the completion date of the testing. All tests performed meet or exceed the highest industry standards and are within the tolerances set forth in this project.

The following items are outside of the allowable tolerances set forth in this project:

- 1.



GUARANTEE

Project #: 22-200

Project Name:

Sample Report
123 ABC Drive
Tampa, Florida 33612

Omni Balancing Solutions, Inc. guarantees its' testing, adjusting, and balancing of the above-mentioned project against faulty workmanship for a period of 1 year from the completion of the test and balance.

Guarantee Period:

A handwritten signature in black ink, appearing to read "Dean Davis, III", with a stylized flourish at the end.

Dean Davis, III, Vice President
Omni Balancing Solutions, Inc.



Project:	Project #:	Date:
-----------------	-------------------	--------------

AHU DATA SHEET

MANUFACTURER: _____

LOCATION: _____

SERIAL: _____

MODEL: _____

TYPE: _____

AREA SERVED: _____

FAN SECTION			COIL SECTION		
AHU DATA	SPECIFIED DATA	TEST DATA	AHU DATA	SPECIFIED DATA	TEST DATA
SUPPLY CFM			COOLING CFM		
RETURN CFM			FACE AREA		
OUTSIDE AIR CFM			COIL PD		
ESP / TSP	/	/	OA DB/WB, °F	/	/
FAN RPM			RA DB/WB, °F	/	/
			EAT DB/WB, °F	/	/
MOTOR DATA	NAMEPLATE DATA	TEST DATA	LAT DB/WB, °F	/	/
			ΔTH, BTU/#		
MOTOR MFR.			TOTAL BTUH		
MOTOR HP / BHP	/	/			
MOTOR RPM					
VOLTAGE / PH	/	/			
AMPERAGE					
S.F. / FRAME	/		HEATER SECTION		
P.F. / EFF.	/		KW		
ROT / SPEED	/		AMPERAGE		
OVERLOAD SIZE			VOLTS / PHASE	/	/
OVERLOAD RATING			# OF STAGES		
DRIVE DATA			FILTER SECTION		
FAN SHEAVE / MAN	/		QUANTITY	SIZE	RATING
MOTOR SHEAVE / MAN	/				
BELTS / MAN.	/				
OT / C to C / QUANTITY	/	/ /			

NOTES:



Certification No. 3854

Project:	Project #:	Date:
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STATIC PRESSURE PROFILE

UNIT NO: _____

SPECIFIED DESIGN: CFM _____ TSP _____ FAN RPM _____

FIELD TEST: CFM _____ TSP _____ FAN RPM _____

SP ENT FILTER = _____

SP ENT COIL = _____

FAN SUCTION = _____

FAN DISCHARGE = _____

NOTES:



Project:	Project #:	Date:
-----------------	-------------------	--------------

AHU DUCT TRAVERSE SUMMARY

[illegible]

NOTES:



Date:

NOTES:



Project:	Project #:	Date:
-----------------	-------------------	--------------

[illegible]

NOTES:



Date:

NOTES:

Project:	Project #:	Date:
-----------------	-------------------	--------------

FAN DATA SHEET

FAN DATA	SPECIFIED DATA	
FAN #		
LOCATION / SERVES	/	/
CFM		
ESP / TSP	/	/
HP / BHP	/	/
FAN RPM		
	TEST DATA	
TYPE		
MANUFACTURER		
MODEL #		
SERIAL #		
FAN CFM		
SUCTION PRESSURE		
DISCHARGE PRESSURE		
SP TOTAL / EXTERNAL	/	/
FAN RPM		
MOTOR MFR		
MOTOR HP / BHP	/	/
MOTOR RPM DESIGN / TEST		
NP AMPERAGE		
NP VOLTAGE / PHASE	/	/
SF / FRAME/ ROT.	/ /	/ /
PF / EFF	/	/
TEST AMPERAGE		
TEST VOLTAGE / PHASE	/	/
HEATER SIZE		
HEATER RATING		
FAN SHEAVE / MAN.	/	/
MOTOR SHEAVE / MAN.	/	/
OT / C to C / QUANTITY	/ /	/ /
BELTS / MAN.	/	/

NOTES:

Project: _____

Project #: _____

Date: _____

FUME HOOD TEST SHEET

HOOD SYSTEM _____

LOCATION / SERVES _____

HOOD DIMENSIONS (WxH) _____

HOOD FACE AREA (FT²) _____

SPECIFIED EXHAUST CFM _____

SPECIFIED FACE VELOCITY (FPM) _____

AVERAGE VELOCITY (FPM) _____ **OPENING SIZE (WxH)** _____

AVG. VELOCITY (FPM) _____ **X OPENING AREA (FT²)** _____ = _____ **CFM**

HOOD MFR. _____

MODEL# _____

SERIAL # _____

SUMMARY

SPECIFIED EXHAUST _____ **CFM**

SPECIFIED FACE VELOCITY _____ **FPM**

TEST EXHAUST _____ **CFM**

TEST FACE VELOCITY _____ **FPM**

NOTES:

Project:

Project #:

Date:

PUMP DATA SHEET

REQUIRED DATA	SPECIFIED DESIGN DATA			
PUMP #				
SERVICE				
GPM				
TDH, FT. H ₂ O				
HP				
RPM				
	FIELD TEST DATA			
MANUFACTURER				
MODEL #				
SERIAL #				
SIZE				
MOTOR MFR				
MOTOR HP / BHP				
MOTOR RPM / TEST				
NP VOLTAGE				
NP AMPERAGE				
SF / FRAME	/	/	/	/
PF / EFF	/	/	/	/
TEST VOLTAGE				
TEST AMPERAGE				
HTR SIZE / RATING	/	/	/	/
SHUT-OFF DATA				
PUMP OFF PRESSURE				
DISCH PRESS				
SUCT PRESS				
HEAD, FT. H ₂ O				
OPERATING DATA				
DISCH PRESS				
SUCT PRESS				
HEAD, FT. H ₂ O				
GPM (PUMP CURVE)				
FLOW DEVICE MFR				
SIZE				
ΔP				
FLOW DEVICE GPM				

NOTES:

Project:	Project #:	Date:
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AIR COOLED CHILLER TEST SHEET

EQUIPMENT #				
MANUFACTURER				
MODEL #				
SERIAL #				
CHILLER DATA	SPECIFIED DESIGN DATA	FIELD TEST DATA	SPECIFIED DESIGN DATA	FIELD TEST DATA
	EVAPORATOR			
EWT, °F				
LWT, °F				
CHW ΔT , °F				
ΔP , FT. H ₂ O				
GPM				
TONS				
	CONDENSER			
EAT DB, °F				
LAT DB, °F				
# CONDENSER FANS				
	COMPRESSOR			
# COMPRESSORS				
	NAMEPLATE DATA		NAMEPLATE DATA	
AMPERAGE				
VOLTAGE / PHASE	/	/	/	/
KILOWATTS				
KW PER TON	/	/	/	/

NOTES:



Date:

NOTES:

Project:	Project #:	Date:
-----------------	-------------------	--------------

COOLING TOWER TEST SHEET

TOWER #		
MANUFACTURER		
MODEL #		
SERIAL #		
TOWER DATA	SPECIFIED DESIGN DATA	FIELD TEST DATA
CAPACITY IN TONS		
GPM		
EWT, °F		
LWT, °F		
RANGE		
EAT WB / DB, °F	/	/
LAT WB / DB, °F	/	/
APPROACH		
MOTOR DATA	NAMEPLATE DATA	FIELD TEST DATA
MOTOR MFR		
MOTOR HP / BHP		/
MOTOR RPM		
VOLTAGE		
AMPERAGE		
SF / FRAME	/	
PF / EFF	/	
HEATER SIZE		
HEATER RATING		
DRIVE DATA		
MOTOR SHEAVE / MAN.	/	
FAN SHEAVE / MAN.	/	
BELTS / MAN.	/	
OT / C to C / QUANTITY	/	/
FAN RPM		

NOTES:

TAB INSTRUMENTS FOR DEAN DAVIS

<i>Instrument Function</i>	<i>Manufacturer and Model Number</i>	<i>Serial Number</i>	<i>Calibration Due Date</i>
Humidity Measurement	Evergreen Telemetry / S-H-3-5"	2100293A	31-May-2023
Pressure/Velocity Measurement (1)	Evergreen Telemetry / S-PVF-1	2100475A	31-May-2023
Pressure/Velocity Measurement (2)	Evergreen Telemetry / S-PVF-1	2100547A	31-May-2023
Airflow Measuring Capture Hood	Evergreen Telemetry / CH-15D	2100191	31-May-2023
Immersion Temperature Probe	Evergreen Telemetry / PR-T-4-6	2100249	31-May-2023
Dry Bulb Temperature Probe	Evergreen Telemetry / PR-T-5	2100196	31-May-2023
Temperature Sensing Module	Evergreen Telemetry / RM-T-1	2100262A	31-May-2023
Water Pressure Sensing Meter	TSI Hydronic Manometer / HM675	72232010	15-Aug-2023
Ultrasonic Water Meter	Fugi / FSCS	P1L3385T	8-July-2023
Electrical Measurement	Fluke / 302+	54710095WS	31-May-2023
Rotation Measurement	CE / DT6236B	2002092930	31-May-2023
Pitot Tubes and Airfoils: 18"/24"/36"/48"	Dwyer	-	-

Certificate Number
A4593569
Issue Date: 06/03/22

Certificate of Calibration

Page 1 of 2

Customer: OMNI BALANCING SOLUTIONS
302 E. 132ND AVE
TAMPA, FL 33612
813-930-5193

P.O. Number:

ID Number: 1702711



Description: WRIST REPORTER

Manufacturer: EVERGREEN

Model Number: WR-401

Serial Number: 1702711

Technician: SHAUN SMITH

On-Site Calibration: ☐

Comments:

Calibration Date: 06/03/2022

Calibration Due: 06/03/2023

Procedure: EVERGREEN TELE PVF

Rev: 3/20/2018

Temperature: 72 °F

Humidity: 35 % RH

As Found Condition: IN TOLERANCE

Calibration Results: IN TOLERANCE

Limiting Attribute:

This instrument has been calibrated using standards traceable to the SI units through the National Institute of Standards and Technology (NIST) or other National Metrological Institute (NMI). The method of calibration is direct comparison to a known standard, derived from natural physical constants, ratio measurements or compared to consensus standards.

Reported uncertainties are expressed as expanded uncertainty values at an approximately 95% confidence level using a coverage factor of k=2. Statements of compliance are based on test results falling within specified limits with no reduction by the uncertainty of the measurement.

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Measurements not currently on TMI's Scope of Accreditation are identified with an asterisk.

WALLY GYNN, BRANCH MANAGER

Scott Chamberlain, QUALITY MANAGER

Calibration Standards

Asset Number	Manufacturer	Model Number	Date Calibrated	Cal Due
0710649	THUNDER SCIENTIFIC	2500ST	8/30/2021	6/10/2022
121197.7/IBY15	STARRETT	WEBBER 46	8/7/2021	8/17/2022
161209	OMEGA	WT4401-S	4/25/2022	4/25/2023
660TL18010015	ADDITEL CORPORATION	ADT875PC-155	5/20/2021	6/20/2022
885	FLUKE	PPC4-UI A7MS/A1.4MS	5/31/2022	3/9/2024
EBT731931028	TSI / ALNOR	EBT731	7/14/2021	7/14/2022
LRS-1	DWYER INSTRUMENTS, INC	1425	7/13/2020	7/13/2022



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ANSI/NCSL Z540-1-1994

Rev. 13
8/17/2018

Technical Maintenance, Inc.

Evergreen
Model: WR-401
Wrist Reporter

INSTRUMENT DATA SHEET

Asset Number: 1702711
Date Tested: 6/3/2022

Customer: OMNI BALANCING SOLUTIONS

Parameter Tested	Nominal Value	Tolerance	Lower Limit	Upper Limit	As Found	Pass/Fail	As Left
2100262A							
Temperature	-38.4 °F	± 0.5 % +1.4°F	-40.0 °F	-36.8 °F	-37.3 °F	Pass	As Found
	100.0 °F	± 0.5 % +1.4°F	98.1 °F	101.9 °F	100.2 °F	Pass	As Found
	240.0 °F	± 0.5 % +1.4°F	237.4 °F	242.6 °F	241.2 °F	Pass	As Found
2100293A							
Temperature	60.0 °F	± 1.0 °F	59.0 °F	61.0 °F	60.5 °F	Pass	As Found
	70.0 °F	± 1.0 °F	69.0 °F	71.0 °F	70.0 °F	Pass	As Found
	80.0 °F	± 1.0 °F	79.0 °F	81.0 °F	79.1 °F	Pass	As Found
Humidity	33.0 % RH	± 3.0 % RH	30.0 % RH	36.0 % RH	35.1 % RH	Pass	As Found
	50.0 % RH	± 3.0 % RH	47.0 % RH	53.0 % RH	52.5 % RH	Pass	As Found
	75.0 % RH	± 3.0 % RH	72.0 % RH	78.0 % RH	77.3 % RH	Pass	As Found
2100547A w/ hood 2100191							
Differential Pressure	1 in H2O	± 2.0 % + 0.001	0.9790 in H2O	1.0210 in H2O	1.0112 in H2O	Pass	As Found
	5 in H2O	± 2.0 % + 0.001	4.8990 in H2O	5.1010 in H2O	4.9892 in H2O	Pass	As Found
	10 in H2O	± 2.0 % + 0.001	9.7990 in H2O	10.2010 in H2O	9.9556 in H2O	Pass	As Found
Flow Hood Accuracy	579 CFM	± 5.0 % + 7	543 CFM	615 CFM	552 CFM	Pass	As Found
	732 CFM	± 5.0 % + 7	688 CFM	776 CFM	710 CFM	Pass	As Found
	872 CFM	± 5.0 % + 7	821 CFM	923 CFM	851 CFM	Pass	As Found
Air speed	1000 FPM	± 5.0 % + 7	943	1057	1012 FPM	Pass	As Found
	2000 FPM	± 5.0 % + 7	1893	2107	2024 FPM	Pass	As Found
	3000 FPM	± 5.0 % + 7	2843	3157	2942 FPM	Pass	As Found
2100475A w/ hood 2100191							
Differential Pressure	1 in H2O	± 2.0 % + 0.001	0.9790 in H2O	1.0210 in H2O	0.9977 in H2O	Pass	As Found
	5 in H2O	± 2.0 % + 0.001	4.8990 in H2O	5.1010 in H2O	4.9132 in H2O	Pass	As Found
	10 in H2O	± 2.0 % + 0.001	9.7990 in H2O	10.2010 in H2O	9.8643 in H2O	Pass	As Found
Flow Hood Accuracy	579 CFM	± 5.0 % + 7	543 CFM	615 CFM	578 CFM	Pass	As Found
	732 CFM	± 5.0 % + 7	688 CFM	776 CFM	712 CFM	Pass	As Found
	872 CFM	± 5.0 % + 7	821 CFM	923 CFM	848 CFM	Pass	As Found
Air speed	1000 FPM	± 5.0 % + 7	943	1057	1006 FPM	Pass	As Found
	2000 FPM	± 5.0 % + 7	1893	2107	1996 FPM	Pass	As Found
	3000 FPM	± 5.0 % + 7	2843	3157	2935 FPM	Pass	As Found
2100183							
Pressure	0 PSI	± 2.0 % + 0.01	-0.10 PSI	0.10 PSI	0.00 PSI	Pass	As Found
	50 PSI	± 2.0 % + 0.01	48.90 PSI	51.10 PSI	49.70 PSI	Pass	As Found
	150 PSI	± 2.0 % + 0.01	146.90 PSI	153.10 PSI	152.00 PSI	Pass	As Found
	250 PSI	± 2.0 % + 0.01	244.90 PSI	255.10 PSI	249.90 PSI	Pass	As Found

Certificate Number
A4589080
Issue Date: 05/31/22

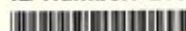
Certificate of Calibration

Page 1 of 2

Customer: OMNI BALANCING SOLUTIONS
302 E. 132ND AVE
TAMPA, FL 33612
813-930-5193

P.O. Number:

ID Number: 2100293A



Description: HUMIDITY METER

Manufacturer: EVERGREEN

Model Number: S-H-3-5

Serial Number: 2100293A

Technician: SHAUN SMITH

On-Site Calibration: ☐

Comments:

Calibration Date: 05/31/2022
Calibration Due: 05/31/2023
Procedure: EVERGREEN TELE PVF
Rev: 3/20/2018
Temperature: 72 °F
Humidity: 35 % RH
As Found Condition: IN TOLERANCE
Calibration Results: IN TOLERANCE

Limiting Attribute:

This instrument has been calibrated using standards traceable to the SI units through the National Institute of Standards and Technology (NIST) or other National Metrological Institute (NMI). The method of calibration is direct comparison to a known standard, derived from natural physical constants, ratio measurements or compared to consensus standards.

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WALLY GYNN, BRANCH MANAGER

Scott Chamberlain, QUALITY MANAGER

Calibration Standards

Asset Number	Manufacturer	Model Number	Date Calibrated	Cal Due
0710649	THUNDER SCIENTIFIC	2500ST	8/30/2021	6/10/2022
121197.7/IBY15	STARRETT	WEBBER 46	8/7/2021	8/17/2022
161209	OMEGA	WT4401-S	4/25/2022	4/25/2023
660TL18010015	ADDITEL CORPORATION	ADT875PC-155	5/20/2021	6/20/2022
EBT731931028	TSI / ALNOR	EBT731	7/14/2021	7/14/2022
LRS-1	JOWYER INSTRUMENTS, INC	1425	7/13/2020	7/13/2022



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Rev. 13
8/17/2018

Certificate Number
A4589062
Issue Date: 05/31/22

Certificate of Calibration

Page 1 of 2

Customer: OMNI BALANCING SOLUTIONS
302 E. 132ND AVE
TAMPA, FL 33612
813-930-5193

P.O. Number:

ID Number: 2100475A



Description: PRESSURE VELOCITY FLOW

Manufacturer: EVERGREEN

Model Number: S-PVF-1

Serial Number: 2100475A

Technician: SHAUN SMITH

On-Site Calibration: ☐

Comments:

Calibration Date: 05/31/2022
Calibration Due: 05/31/2023
Procedure: EVERGREEN TELE PVF
Rev: 3/20/2018
Temperature: 72 °F
Humidity: 35 % RH
As Found Condition: IN TOLERANCE
Calibration Results: IN TOLERANCE

Limiting Attribute:

This instrument has been calibrated using standards traceable to the SI units through the National Institute of Standards and Technology (NIST) or other National Metrological Institute (NMI). The method of calibration is direct comparison to a known standard, derived from natural physical constants, ratio measurements or compared to consensus standards.

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Scott Chamberlain, QUALITY MANAGER

Calibration Standards

Asset Number	Manufacturer	Model Number	Date Calibrated	Cal Due
0710649	THUNDER SCIENTIFIC	2500ST	8/30/2021	6/10/2022
121197.7/IBY15	STARRETT	WEBBER 46	8/7/2021	8/17/2022
161209	OMEGA	WT4401-S	4/25/2022	4/25/2023
660TL18010015	ADDITEL CORPORATION	ADT875PC-155	5/20/2021	6/20/2022
EBT731931028	TSI / ALNOR	EBT731	7/14/2021	7/14/2022
LRS-1	JWYER INSTRUMENTS, INC	1425	7/13/2020	7/13/2022



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Rev. 13
8/17/2018

Certificate Number
A4589084
Issue Date: 05/31/22

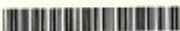
Certificate of Calibration

Page 1 of 2

Customer: OMNI BALANCING SOLUTIONS
302 E. 132ND AVE
TAMPA, FL 33612
813-930-5193

P.O. Number:

ID Number: 2100547A



Description: PRESSURE VELOCITY FLOW	Calibration Date: 05/31/2022
Manufacturer: EVERGREEN	Calibration Due: 05/31/2023
Model Number: S-PVF-1	Procedure: EVERGREEN TELE PVF
Serial Number: 2100547A	Rev: 3/20/2018
Technician: SHAUN SMITH	Temperature: 72 °F
On-Site Calibration: <input type="checkbox"/>	Humidity: 35 % RH
Comments:	As Found Condition: IN TOLERANCE
	Calibration Results: IN TOLERANCE

Limiting Attribute:

This instrument has been calibrated using standards traceable to the SI units through the National Institute of Standards and Technology (NIST) or other National Metrological Institute (NMI). The method of calibration is direct comparison to a known standard, derived from natural physical constants, ratio measurements or compared to consensus standards.


Reported uncertainties are expressed as expanded uncertainty values at an approximately 95% confidence level using a coverage factor of k=2. Statements of compliance are based on test results falling within specified limits with no reduction by the uncertainty of the measurement.

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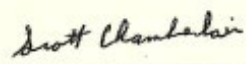
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WALLY GYNN, BRANCH MANAGER



Scott Chamberlain, QUALITY MANAGER

Calibration Standards

Asset Number	Manufacturer	Model Number	Date Calibrated	Cal Due
0710649	THUNDER SCIENTIFIC	2500ST	8/30/2021	8/10/2022
121197.7/IBY15	STARRETT	WEBBER 46	8/7/2021	8/17/2022
161209	OMEGA	WT4401-S	4/25/2022	4/25/2023
660TL18010015	ADDITEL CORPORATION	ADT675PC-155	5/20/2021	6/20/2022
EBT731931028	TSI / ALNOR	EBT731	7/14/2021	7/14/2022
LRS-1	WYER INSTRUMENTS, INC	1425	7/13/2020	7/13/2022



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8/17/2018

Certificate Number
A4589071
Issue Date: 05/31/22

Certificate of Calibration

Page 1 of 2

Customer: OMNI BALANCING SOLUTIONS
302 E. 132ND AVE
TAMPA, FL 33612
813-930-5193

P.O. Number:

ID Number: 2100191



Description: FLOW HOOD
Manufacturer: EVERGREEN
Model Number: CH-15D
Serial Number: 2100191
Technician: SHAUN SMITH

Calibration Date: 05/31/2022
Calibration Due: 05/31/2023
Procedure: EVERGREEN TELE PVF
Rev: 3/20/2018
Temperature: 72 °F
Humidity: 35 % RH
As Found Condition: IN TOLERANCE
Calibration Results: IN TOLERANCE

On-Site Calibration: ☐
Comments:

Limiting Attribute:

This instrument has been calibrated using standards traceable to the SI units through the National Institute of Standards and Technology (NIST) or other National Metrological Institute (NMI). The method of calibration is direct comparison to a known standard, derived from natural physical constants, ratio measurements or compared to consensus standards.

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WALLY GYNN, BRANCH MANAGER


Scott Chamberlain, QUALITY MANAGER

Calibration Standards

Asset Number	Manufacturer	Model Number	Date Calibrated	Cal Due
0710649	THUNDER SCIENTIFIC	2500ST	8/30/2021	6/10/2022
121197.7/1BY15	STARRETT	WEBBER 46	8/7/2021	8/17/2022
161209	OMEGA	WT4401-S	4/25/2022	4/25/2023
660TL18010015	ADDITEL CORPORATION	ADT875PC-155	5/20/2021	6/20/2022
EBT731931028	TSI / ALNOR	EBT731	7/14/2021	7/14/2022
LRS-1	JWYER INSTRUMENTS, INC	1425	7/13/2020	7/13/2022



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ANSI/NCCL Z540-1:1994

Rev. 13
8/17/2018

Certificate Number
A4589076
Issue Date: 05/31/22


Certificate of Calibration

Page 1 of 3

Customer: OMNI BALANCING SOLUTIONS
302 E. 132ND AVE
TAMPA, FL 33612
813-930-5193

P.O. Number:

ID Number: 2100262A



Description: TEMPERATURE METER
Manufacturer: EVERGREEN
Model Number: PR-T-4-6
Serial Number: 2100262A
Technician: SHAUN SMITH

Calibration Date: 05/31/2022
Calibration Due: 05/31/2023
Procedure: EVERGREEN TELE PVF
Rev: 3/20/2018
Temperature: 72 °F
Humidity: 35 % RH
As Found Condition: IN TOLERANCE
Calibration Results: IN TOLERANCE

On-Site Calibration: ☐

Comments:

Limiting Attribute:

This instrument has been calibrated using standards traceable to the SI units through the National Institute of Standards and Technology (NIST) or other National Metrological Institute (NMI). The method of calibration is direct comparison to a known standard, derived from natural physical constants, ratio measurements or compared to consensus standards.


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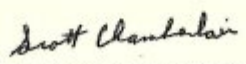
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WALLY GYNN, BRANCH MANAGER



Scott Chamberlain, QUALITY MANAGER

Calibration Standards

Asset Number	Manufacturer	Model Number	Date Calibrated	Cal Due
0710649	THUNDER SCIENTIFIC	2500ST	8/30/2021	6/10/2022
121197.7/IBY15	STARRETT	WEBBER 46	8/7/2021	8/17/2022
161209	OMEGA	WT4401-S	4/25/2022	4/25/2023
660TL18010015	ADDITEL CORPORATION	ADT875PC-155	5/20/2021	6/20/2022
EBT731931028	TSI / ALNOR	EBT731	7/14/2021	7/14/2022
LRS-1	JWYER INSTRUMENTS, INC	1425	7/13/2020	7/13/2022



Technical Maintenance, Inc.

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ANSI/NCSL Z540-1-1994

Rev. 13
8/17/2018



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	73.7	° F
RELATIVE HUMIDITY	49.0	% RH
BAROMETRIC PRESSURE	29.16	inHg

MODEL	Hydronic Manometer [®] HM675
SERIAL NO.	72232010

CALIBRATION STANDARDS USED	
Hydronic Manometer Calibration System I	

<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	9.995	9.979	9.823 ~ 10.17
2	25.3	25.2	23.1 ~ 27.5	24.99	24.96	24.67 ~ 25.31
3	49.9	49.8	47.4 ~ 52.4	124.8	124.8	123.5 ~ 126.1
4	100.1	99.9	97.1 ~ 103.1	225.0	224.9	222.7 ~ 227.3

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	9.995	9.988	9.823 ~ 10.17
2	25.3	25.3	23.1 ~ 27.5	24.99	24.97	24.67 ~ 25.31
3	49.9	49.9	47.4 ~ 52.4	124.8	124.7	123.5 ~ 126.1
4	100.1	100.0	97.1 ~ 103.1	225.0	225.0	222.7 ~ 227.3

TEMPERATURE MEASURED IN °F¹

CALIBRATION STANDARD	-37.8	5.0	77.0	158.0	230.0
INSTRUMENT OUTPUT 1	-37.77	5.06	76.98	157.97	229.92
INSTRUMENT OUTPUT 2	-37.77	5.05	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	06-08-22	12-29-23
DC Voltage	E002818	06-08-22	12-29-23
Pressure	E004675	10-26-21	10-31-22

Calibration procedure used: 10000026004

Paula Nash
Calibrated By

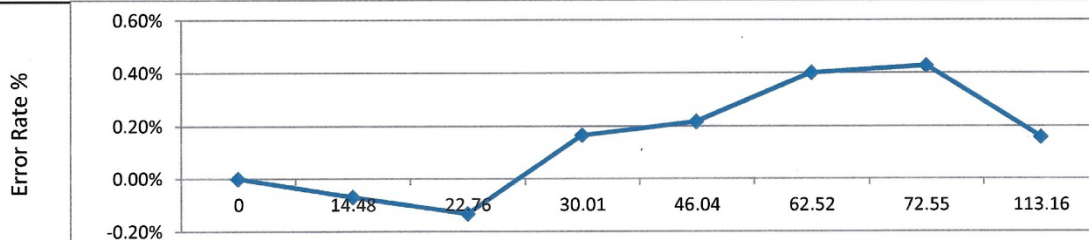
Aug. 15, 2022

Calibration Date

Calibration Information Sheet

Customer Name:	Omni Balancing Solutions	Calibration Date:	7/8/2022
SO Number:	SO419334	Next Calibration Due:	7/8/2023
Instrument Manufacturer:	Fuji Electric Systems Co., Ltd	Calibration Number:	44750.53
Instrument Description:	Transit Time	Temperature:	83°F ± 1°F
Manufacturing Date:	2022	Relative Humidity:	63% ± 5%
Software Version:	4.10	Barometric Pressure:	999 ± 2 milliBars
Model Number:	FSCS	Loop Specifications:	0.5-2" SCH 80 PVC
Serial Number:	P1L3385T	Loop Scale:	0 - 120 GPM
Uncertainty Rate:	± 0.5%*	Standard:	GF63204AUBA1
Comments:	Calibrated using FSSD Transducers SN: N1M1468T	Standard Serial #:	705128
	Cal: 98%		

Test Number	Actual Flow (gpm)	Indicated Flow (gpm)	Average % error	Average Error (gpm)
Test 1	0	0	0.00%	0
Test 2	14.48	14.47	-0.07%	-0.01
Test 3	22.76	22.73	-0.13%	-0.03
Test 4	30.01	30.06	0.17%	0.05
Test 5	46.04	46.14	0.22%	0.10
Test 6	62.52	62.77	0.40%	0.25
Test 7	72.55	72.86	0.43%	0.31
Test 8	113.16	113.34	0.16%	0.18



Calibration Statement

The flow measurement system listed above was certified in accordance with ISO procedure DAS-207-001 (Meter Certification Procedure). The Equipment and methods used to generate the system performance section of this certificate emulate NIST standards and conform to ISO9001/ANSI Z540.1/MIL-STD-45662A respectively. All certifications performed are conducted with tap water around 83°F (28.3°C) and around 1.0cSt, calibrations for alternative fluids have been mathematically corrected.

*This certifies that the flow measurement system listed above was operated and data was recorded in accordance with DAS-207-001. The data shown applies only to the instrument being calibrated and under the stated conditions of calibration.

Test Performed by: 

on the Date of

7/8/2022

Test Certified by: 

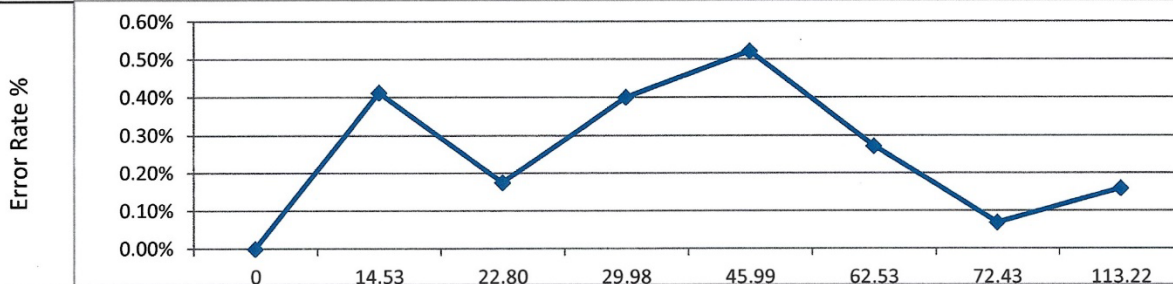
on the Date of

7/8/2022

Calibration Information Sheet

Customer Name:	Omni Balancing Solutions	Calibration Date:	7/8/2022
SO Number:	SO419334	Next Calibration Due:	7/8/2023
Instrument Manufacturer:	Fuji Electric Systems Co., Ltd	Calibration Number:	44750.52
Instrument Description:	Transit Time	Temperature:	83°F ± 1°F
Manufacturing Date:	2022	Relative Humidity:	63% ± 5%
Software Version:	4.10	Barometric Pressure:	999 ± 2 milliBars
Model Number:	FSCS	Loop Specifications:	0.5-2" SCH 80 PVC
Serial Number:	P1L3385T	Loop Scale:	0 - 120 GPM
Uncertainty Rate:	± 0.5%*	Standard:	GF63204AUBA1
Comments:	Calibrated using FSSC Transducers SN: N1P1586T	Standard Serial #:	705128
	Cal: 100%		

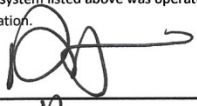
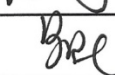
Test Number	Actual Flow (gpm)	Indicated Flow (gpm)	Average % error	Average Error (gpm)
Test 1	0	0	0.00%	0
Test 2	14.53	14.59	0.41%	0.06
Test 3	22.80	22.84	0.18%	0.04
Test 4	29.98	30.10	0.40%	0.12
Test 5	45.99	46.23	0.52%	0.24
Test 6	62.53	62.70	0.27%	0.17
Test 7	72.43	72.48	0.07%	0.05
Test 8	113.22	113.40	0.16%	0.18



Calibration Statement

The flow measurement system listed above was certified in accordance with ISO procedure DAS-207-001 (Meter Certification Procedure). The Equipment and methods used to generate the system performance section of this certificate emulate NIST standards and conform to ISO9001/ANSIZ540.1/MIL-STD-45662A respectively. All certifications performed are conducted with tap water around 83°F (28.3°C) and around 1.0cSt, calibrations for alternative fluids have been mathematically corrected.

*This certify that the flow measurement system listed above was operated and data was recorded in accordance with DAS-207-001. The data show applies only to the instrument being calibrated and under the stated conditions of calibration.

Test Performed by: 
Test Certified by: 

on the Date of 7/8/2022
on the Date of 7/8/2022

Certificate Number
A4589018
Issue Date: 05/31/22

Certificate of Calibration

Page 1 of 2

Customer: OMNI BALANCING SOLUTIONS
302 E. 132ND AVE
TAMPA, FL 33612
813-930-5193

P.O. Number:

ID Number: 54710095WS



Description: DIGITAL CLAMP METER

Manufacturer: FLUKE

Model Number: 302+

Serial Number: 54710095WS

Technician: SHAUN SMITH

On-Site Calibration: ☐

Comments:

Calibration Date: 05/31/2022

Calibration Due: 05/31/2023

Procedure: TMI-M-CLAMP

Rev: 9/30/1998

Temperature: 72 °F

Humidity: 35 % RH

As Found Condition: IN TOLERANCE

Calibration Results: IN TOLERANCE

Limiting Attribute:

This instrument has been calibrated using standards traceable to the SI units through the National Institute of Standards and Technology (NIST) or other National Metrological Institute (NMI). The method of calibration is direct comparison to a known standard, derived from natural physical constants, ratio measurements or compared to consensus standards.

Reported uncertainties are expressed as expanded uncertainty values at an approximately 95% confidence level using a coverage factor of $k=2$. Statements of compliance are based on test results falling within specified limits with no reduction by the uncertainty of the measurement.

TMI's Quality System is accredited to ISO/IEC 17025:2017 and ANSI/NCCL Z540-1-1994. ISO/IEC 17025:2017 is written in a language relevant to laboratory operations, meeting the principles of ISO 9001 and aligned with its pertinent requirements. This calibration complies with all the requirements of ANSI/NCCL Z540-1-1994 and TMI's Quality Manual, QM-1.

Results contained in this document relate only to the item calibrated. Calibration due dates appearing on the certificate or label are determined by the client for administrative purposes and do not imply continued conformance to specifications.

This certificate shall not be reproduced, except in full, without the written permission of Technical Maintenance, Inc.

Measurements not currently on TMI's Scope of Accreditation are identified with an asterisk.

WALLY GYNN, BRANCH MANAGER

Scott Chamberlain, QUALITY MANAGER

Calibration Standards

<u>Asset Number</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Date Calibrated</u>	<u>Cal Due</u>
1717904	FLUKE	5522A/1GHZ 120	4/7/2022	4/7/2023



Technical Maintenance, Inc.

12530 TELECOM DRIVE, TEMPLE TERRACE, FL 33637

Phone: 813-978-3054 Fax 813-978-3758

www.tmicalibration.com

ANSI/NCCL Z540-1-1994

Rev. 13
8/17/2018

Technical Maintenance, Inc.

Fluke
Model: 302+
Clamp Meter

INSTRUMENT DATA SHEET

Asset Number: 54710095WS
Date Tested: 5/31/2022

Customer: OMNI BALANCING SOLUTIONS

Parameter Tested	Nominal Value	Tolerance	Lower Limit	Upper Limit	As Found	Pass/Fail	As Left
AC Ampe Test	30.0 A @ 60 Hz	± 1.8% + 5 dgts	29.0 A	31.0 A	30.0 A	Pass	As Found
	3.6 A @ 60 Hz	± 1.8% + 5 dgts	2.9 A	4.1 A	3.6 A	Pass	As Found
	35.0 A @ 50 Hz	± 1.8% + 5 dgts	33.9 A	36.1 A	34.9 A	Pass	As Found
	3.5 A @ 400 Hz	± 1.8% + 5 dgts	2.9 A	4.1 A	3.3 A	Pass	As Found
	35.0 A @ 400 Hz	± 1.8% + 5 dgts	33.9 A	36.1 A	34.8 A	Pass	As Found
	50.0 A @ 50 Hz	± 1.8% + 5 dgts	48.6 A	51.4 A	49.8 A	Pass	As Found
	300.0 A @ 50 Hz	± 1.8% + 5 dgts	294.1 A	305.9 A	300.3 A	Pass	As Found
	300.0 A @ 400 Hz	± 1.8% + 5 dgts	294.1 A	305.9 A	302.5 A	Pass	As Found
	50.0 A @ 400 Hz	± 1.8% + 5 dgts	48.6 A	51.4 A	49.9 A	Pass	As Found
Resistance Test	30.0 Ω	± 1% + 5 dgts	28.0 Ω	32.0 Ω	30.2 Ω	Pass	As Found
	500.0 Ω	± 1% + 5 dgts	490.0 Ω	510.0 Ω	500.0 Ω	Pass	As Found
	3000.0 Ω	± 1% + 5 dgts	2955.0 Ω	3035.0 Ω	3001.0 Ω	Pass	As Found
AC Volts Test	35.0 V @ 50 Hz	± 1.5% + 5 dgts	34.0 V	36.0 V	35.0 V	Pass	As Found
	350.0 V @ 60 Hz	± 1.5% + 5 dgts	344.3 V	355.8 V	350.2 V	Pass	As Found
	600.0 V @ 60 Hz	± 1.5% + 5 dgts	590.5 V	609.5 V	600.9 V	Pass	As Found
	35.0 V @ 400 Hz	± 1.5% + 5 dgts	34.0 V	36.0 V	34.5 V	Pass	As Found
	350.0 V @ 400 Hz	± 1.5% + 5 dgts	344.3 V	355.8 V	349.6 V	Pass	As Found
	600.0 V @ 400 Hz	± 1.5% + 5 dgts	590.5 V	609.5 V	599.8 V	Pass	As Found
DC Volts Test	-350.0 V	± 1.5% + 5 dgts	-344.8 V	-345.3 V	-350.1 V	Pass	As Found
	35.0 V	± 1.5% + 5 dgts	34.0 V	36.0 V	35.0 V	Pass	As Found
	350.0 V	± 1.5% + 5 dgts	344.3 V	355.8 V	350.2 V	Pass	As Found
	600.0 V	± 1.5% + 5 dgts	590.5 V	609.5 V	600.8 V	Pass	As Found

Certificate Number
A4589012
Issue Date: 05/31/22


Certificate of Calibration

Page 1 of 2

Customer: OMNI BALANCING SOLUTIONS
302 E. 132ND AVE
TAMPA, FL 33612
813-930-5193

P.O. Number:

ID Number: 2002092930



<p>Description: DIGITAL TACHOMETER</p> <p>Manufacturer: CE</p> <p>Model Number: DT6236B</p> <p>Serial Number: 2002092930</p> <p>Technician: SHAUN SMITH</p> <p>On-Site Calibration: <input type="checkbox"/></p> <p>Comments:</p>	<p>Calibration Date: 05/31/2022</p> <p>Calibration Due: 05/31/2023</p> <p>Procedure: TMI-TACHOMETERS</p> <p>Rev: 8/31/2016</p> <p>Temperature: 72 °F</p> <p>Humidity: 35 % RH</p> <p>As Found Condition: IN TOLERANCE</p> <p>Calibration Results: IN TOLERANCE</p>
---	--

Limiting Attribute:

This instrument has been calibrated using standards traceable to the SI units through the National Institute of Standards and Technology (NIST) or other National Metrological Institute (NMI). The method of calibration is direct comparison to a known standard, derived from natural physical constants, ratio measurements or compared to consensus standards.


Reported uncertainties are expressed as expanded uncertainty values at an approximately 95% confidence level using a coverage factor of k=2. Statements of compliance are based on test results falling within specified limits with no reduction by the uncertainty of the measurement.


TMI's Quality System is accredited to ISO/IEC 17025:2017 and ANSI/NCSL Z540-1-1994. ISO/IEC 17025:2017 is written in a language relevant to laboratory operations, meeting the principles of ISO 9001 and aligned with its pertinent requirements. This calibration complies with all the requirements of ANSI/NCSL Z540-1-1994 and TMI's Quality Manual, QM-1.

Results contained in this document relate only to the item calibrated. Calibration due dates appearing on the certificate or label are determined by the client for administrative purposes and do not imply continued conformance to specifications.


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Measurements not currently on TMI's Scope of Accreditation are identified with an asterisk.


WALLY GYNN, BRANCH MANAGER


Scott Chamberlain, QUALITY MANAGER

<u>Calibration Standards</u>				
<u>Asset Number</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Date Calibrated</u>	<u>Cal Due</u>
1717904	FLUKE	5522A/1GHZ 120	4/7/2022	4/7/2023



Technical Maintenance, Inc.

12530 TELECOM DRIVE, TEMPLE TERRACE, FL 33637

Phone: 813-978-3054 Fax 813-978-3758

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ANSI/NCSL Z540-1-1994

Rev. 13
8/17/2018

Certificate Number
A4589012
Issue Date: 05/31/22

Certificate of Calibration

Page 2 of 2

Data Sheet

<u>Parameter</u>	<u>Nominal</u>	<u>Minimum</u>	<u>Maximum</u>	<u>As Found</u>	<u>As Left</u>	<u>Unit</u>	<u>ADJ/FAIL</u>
Photo Tachometer Accuracy	60.0	59.9	60.1	60.0	60.0	rpm	
Photo Tachometer Accuracy	600.0	599.6	600.4	600.0	600.0	rpm	
Photo Tachometer Accuracy	6000	5996	6004	6000	6000	rpm	
Photo Tachometer Accuracy	60000	59969	60031	60008	60008	rpm	
Photo Tachometer Accuracy	90000	89954	90046	90010	90010	rpm	



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ANSI/NCSL Z540-1-1994

Rev. 13
8/17/2018

ABBREVIATIONS

Definition

Abbreviation

Air Changes Per Hour	AC/HR
Air Handler Unit	AHU
Area Known	AK
Brake Horsepower	BHP
British Thermal Units Per Hour	BTUH
Center To Center	C to C
Correction Factor	CF
Cubic Feet Per Minute	CFM
Chilled Water	CHW
Condenser Water	CW
Dry Bulb Temperature (°F)	DB
Direct Drive	DD
Differential Pressure	DP
Direct Expansion	DX
Electronically Protected	EP
Entering Air	EA
Exhaust Fan	EF
External Static Pressure	ESP
Entering Water Temperature	EWT
Exhaust	EXH
Fan Coil Unit	FCU
Flow Hood	FH
Feet Per Minute	FPM
Gallons Per Minute	GPM
Horsepower	HP
Hertz	HZ
Kilowatt	KW
Leaving Air Temperature	LAT
Leaving Water Temperature	LWT
Make-Up Air	MUA
Make-Up Air Unit	MAU
No Access	NA
Not Given	NG
Not Listed	NL

ABBREVIATIONS CONTINUED

Definition

Abbreviation

Outside Air
Opposed Blade Damper
Open Turns
Pressure
Phase
Pressure Differential
Pressure Temperature
Pounds Per Square inch
Return Air
Relative Humidity
Rotation
Revolutions Per Minute
Roof Top Unit
Supply Air
Supply Fan
Static Pressure
Temperature
Thermally Protected
Total Dynamic Head
Total Heat/Enthalpy
Total Static Pressure
Variable Air Volume
Variable Frequency Drive
Wet Bulb Temperature

OA
OBD
OT
P
PH
PD
P/T
PSI
RA
RH
ROT
RPM
RTU
SA
SF
SP
T
TP
TDH
TH
TSP
VAV
VFD
WB

ABBREVIATIONS

<u>Definition</u>	<u>Abbreviation</u>
Air Changes Per Hour	AC/HR
Air Handler Unit	AHU
Area Known	AK
Brake Horsepower	BHP
British Thermal Units Per Hour	BTUH
Center To Center	C to C
Correction Factor	CF
Cubic Feet Per Minute	CFM
Chilled Water	CHW
Condenser Water	CW
Dry Bulb Temperature (°F)	DB
Direct Drive	DD
Differential Pressure	DP
Direct Expansion	DX
Electronically Protected	EP
Entering Air	EA
Exhaust Fan	EF
External Static Pressure	ESP
Entering Water Temperature	EWT
Exhaust	EXH
Fan Coil Unit	FCU
Flow Hood	FH
Feet Per Minute	FPM
Gallons Per Minute	GPM
Horsepower	HP
Hertz	HZ
Kilowatt	KW
Leaving Air Temperature	LAT
Leaving Water Temperature	LWT
Make-Up Air	MUA
No Access	NA
Not Given	NG
Not Listed	NL

ABBREVIATIONS CONTINUED

<u>Definition</u>	<u>Abbreviation</u>
Outside Air	OA
Opposed Blade Damper	OBD
Open Turns	OT
Pressure	P
Phase	PH
Pressure Differential	PD
Pressure Temperature	P/T
Pounds Per Square inch	PSI
Return Air	RA
Relative Humidity	RH
Rotation	ROT
Revolutions Per Minute	RPM
Roof Top Unit	RTU
Supply Air	SA
Supply Fan	SF
Static Pressure	SP
Temperature	T
Thermally Protected	TP
Total Dynamic Head	TDH
Total Heat/Enthalpy	TH
Total Static Pressure	TSP
Variable Air Volume	VAV
Variable Frequency Drive	VFD
Wet Bulb Temperature	WB