



CERTIFIED TEST, ADJUST, AND BALANCE REPORT

DATE

April 26, 2024

PROJECT

HIGHTOWER PARK IMPROVEMENTS FOR CITY OF WEST MEMPHIS

ARCHITECT

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NEBB TAB FIRM

AIRETECH CORPORATION 7631 Northshore Place North Little Rock, Arkansas 72118

Certification Number: 2847





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, 2024

Expiration Date

NEBB President

NEBB President-Elect





Certification

DANIEL J. 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, 2024		
Expiration Date		

NEBB President

NEBB President-Elect



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Instrument Calibration List

	Function	Range	Accuracy	Make	Model #	Serial #	Calibration Date
	Air Pressure Measurement	0 to 10.00 in.w.g.	± 2% of reading	Evergreen	S-PVF-1	1900682	6/12/2023
AIR	Air Velocity Measurement	100 to 3500 fpm	± 5% of reading	Evergreen	S-PVF-1	1900682	6/12/2023
	Direct Reading Hood	25 to 2000 cfm	± 5% of reading, ± 7 cfm	Evergreen	S-PVF-1	1900682	6/12/2023
TEMPERATURE	Air Meter with Probe	0 to 200 °F	± 0.5% of reading	Cooper	SRH77A-E	10709022	10/24/2023
TEMPERATURE	Immersion Meter with probe	0 to 200 °F	± 0.5% of reading	Cooper	SRH77A-E	10709022	10/24/2023
HUMIDITY	Humidity Measurement	10 to 90% RH	± 3% RH	Cooper	SRH77A-E	10709022	10/24/2023
ELECTRICAL	Volts AC	0 to 600 VAC	± 2% of reading	Fluke	902	62201193MV	10/19/2023
ELECTRICAL	Amperes	0.1 to 100 Amps	± 2% of reading	Fluke	902	62201193MV	10/19/2023
ROTATION	Rotation Measurement	60 to 5000rpm	± 2% of reading	Extech	461995	H319421	11/21/2023
HYDRONIC	Hydronic Pressure Measurement	0.4 to 200 PSI	± 2% of reading	Dwyer	490W-6	01L6RK	1/31/2024
HTDRONIC	Hydronic Differential Pressure	0.4 to 75 PSI	± 2% of reading	Dwyer	490W-6	01L6RK	1/31/2024

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



	ABBREVIATIONS			
SYMBOL	<u>DESCRIPTION</u>	SYMBOL	<u>DESCRIPTION</u>	
Α	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	
СН	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			





PROJECT: HIGHTOWER PARK IMPROVEMENTS

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

Daniel J. Droper

REGISTRATION NUMBER: 2847

CERTIFIED BY (TAB SUPERVISOR): DANIEL J DRAPER

CERTIFICATION EXPIRATION DATE: 12/31/2024

SIGNATURE:

DANIEL J. DRAPER CERTIFICATION 2847
Exp. 12/31/24
And Hydronic restricts

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REPORT SUMMARY

Test and Balance consisted of 3 exhaust fans and 2 electric unit heaters.

Exhaust fans were tested to verify proper operation. Fan totals were determined at fan inlets using a direct reading flow hood and fan speeds were adjusted to design. All fan and motor operating data were measured and recorded.

Unit heaters were tested to verify proper operation. All operating data was measured and recorded.



PROJECT: Hightower Park Improvements - City of West Memphis

West Memphis, AR

LOCATION: PROJECT #: 71901

SYSTEM/UNIT: EF-01 Tested By: Greg Rinehart Date: 4/17/2024

Unit Data		
Fan Manufacturer	Greenheck	
Fan Model Number	CSP-A390	
Fan Serial Number	22682345	

Test Data		
Design Airflow	300 CFM	
Actual Airflow	305 CFM	
Motor Volts T1-T2	121 Volts	
Motor Amps T1	0.7 Amps	

Motor Data			
Motor Rated Volts	115 Volts		
Motor Phase	1		
Motor Hertz	60 Hz		
Motor FL Amps	1.42 Amps		
Corrected FL Amps	1.35 Amps		
Motor Type	Direct Drive		
Direct Drive Speed	Medium		

DATE: 4/26/2024 CONTACT: Elizabeth Amador

SYSTEM/UNIT: EF-02 Tested By: Greg Rinehart Date: 4/17/2024

Unit Data		
Fan Manufacturer	Greenheck	
Fan Model Number	CSP-A700	
Fan Serial Number	22682346	

Test Data		
Design Airflow	375 CFM	
Actual Airflow	408 CFM	
Motor Volts T1-T2	121 Volts	
Motor Amps T1	2.4 Amps	

Motor Data		
Motor Rated Volts	115 Volts	
Motor Phase	1	
Motor Hertz	60 Hz	
Motor FL Amps	3.3 Amps	
Corrected FL Amps	3.14 Amps	
Motor Type	Direct Drive	
Direct Drive Speed	Low	

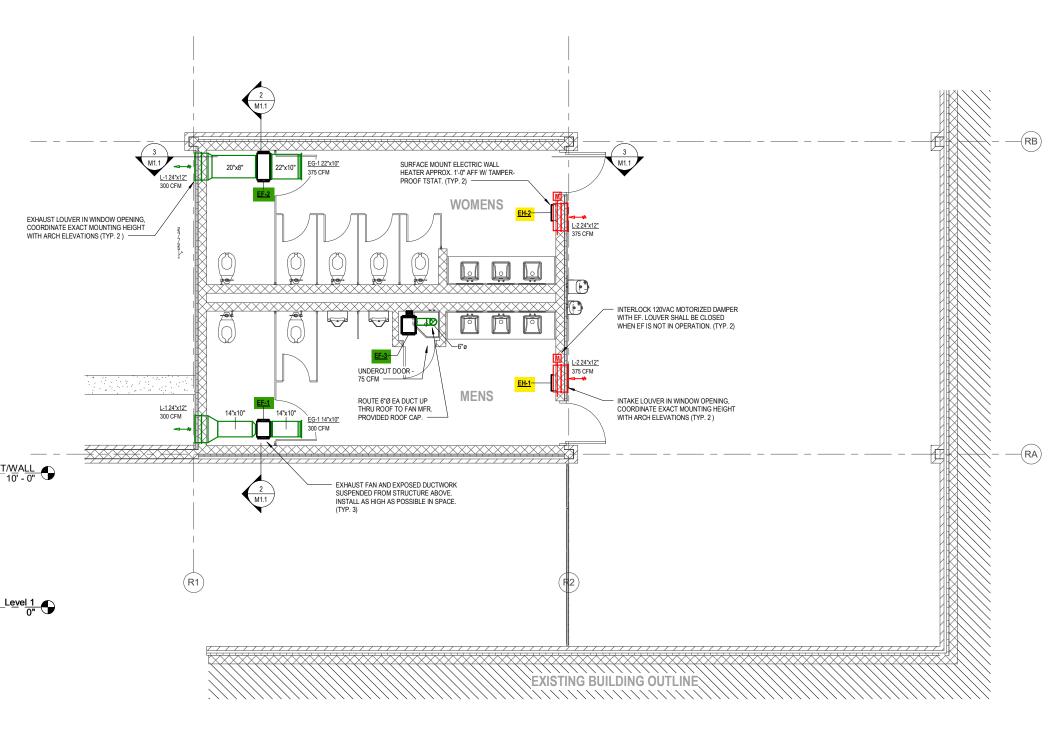
SYSTEM/UNIT: EF-03 Tested By: Greg Rinehart Date: 4/17/2024

Unit Data			
Fan Manufacturer Greenback			
Fan Model Number	SP-B110		
Fan Serial Number	22682347		

Test Data		
Design Airflow	75 CFM	
Actual Airflow	81 CFM	
Motor Volts T1-T2	120 Volts	
Motor Amps T1	0.8 Amps	

Motor Data		
Motor Manufacturer	Greenback	
Motor RPM	950 RPM	
Motor Rated Volts	115 Volts	
Motor Phase	1	
Motor Hertz	60 Hz	
Motor FL Amps	1.15 Amps	
Corrected FL Amps	1.10 Amps	
Motor Type	Direct Drive	
Direct Drive Speed	Low	

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