



ASSOCIATED AIR BALANCE
COUNCIL

TEST AND BALANCE ANALYSIS REPORT
FOR

JOB ST. TAMMANY JUNIOR HIGH SCHOOL GYM
SLIDELL, LA.

CONTRACTOR LOUMIS AIR

ARCHITECT N/A ENGINEER BRIAN A. MISTICH

C_x AGENT N/A TTPJ# 13243

CERTIFICATION:

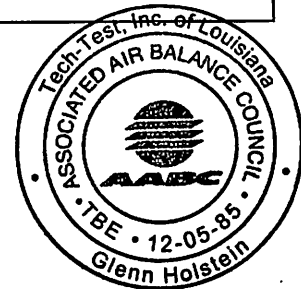
AIR DISTRIBUTION SYSTEM HAS BEEN COMPLETELY BALANCED AS PER
REQUIREMENTS OF SPECIFICATIONS AND RESULTS FOR TESTS HEREIN LISTED.

CERTIFICATION NO. 12-05-85

BY Jared Bush
JARED BUSH

DATE 8/4/2025 APPROVED Glenn Holstein
GLENN HOLSTEIN, TBE

TECH TEST INC. OF LA.
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• Telephone (225) 752-1664
Air Balancing • Hydronic Testing • Energy Conservation

William J. Holstein
Glenn Holstein

INDEX

	PAGE
INTRODUCTION.....	1
INSTRUMENT LIST.....	2
AIR UNIT TEST SHEET.....	3
DUCT TRAVERSE SHEET.....	4
AIR QUANTITY EACH INLET/OUTLET.....	5
FAN TEST SHEET.....	6



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INTRODUCTION

The attached Test and Balance report is true in that it reflects the actual operating conditions as of this day. It should be kept in mind, however, that there are almost always certain limitations imposed when balancing mechanical systems, depending upon the aids provided either by design or installation.

Respectfully submitted,

Glenn Holstein, TBE



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INSTRUMENT LIST

1. DIRECT AIR VELOCITY AND PRESSURE INSTRUMENTS:
 - A. SHORTRIDGE MODEL ADM-870C ELECTRONIC MANOMETER
RANGES: 0 TO 30,000 FPM PITOT TUBE; 0 TO 2,500 FPM VELGRID; 0 TO 5,000 FPM AIRFOIL;
.0001" H₂O TO OVER 60.00" H₂O
 - B. ALNOR MODEL RV ROTATING VANE ANEMOMETER
RANGE: 60 FPM TO 6,000 FPM
 - C. DWYER MODEL 400-10 INCLINED MANOMETER
RANGE: 0 TO 1.00" H₂O
 - D. SHORTRIDGE CAPTURE HOODS – BOTH ELECTRONIC AND ANALOG
 - E. EXTECH VANE ANEMOMETER MODEL 407113
RANGE: 0 TO 6890 FPM (78.3 MPH)
2. TEMPERATURE SENSING INSTRUMENTS:
 - A. SHORTRIDGE MODEL ADM-870C ELECTRONIC MICROMANOMETER WITH MODEL MT440K MULTIPOINT TEST KIT ATTACHMENT
RANGE: -112°F TO 302°F WITH 1.0°F RESOLUTION
 - B. TAYLOR MERCURY BULB GLASS IMMERSION THERMOMETERS
RANGE: -30°F TO 120°F WITH 1.0°F RESOLUTION
 - C. BACHARACH MODEL 12-7011 SLING PSYCHROMETER
RANGE: 20°F TO 120°F
 - D. EXTECH IR THERMOMETER MODEL RPM10
RANGE: -4°F TO 600°F
 - E. COOPER SRH77A TEMPERATURE/HUMIDITY DIGITAL INSTRUMENT
RANGE: -40°F TO 300°F / HUMIDITY RANGE: 10-95% RH (30 - 130°F)
3. WATER PRESSURE READING INSTRUMENTS:
 - A. MERIAM BELLOWS TYPE PRESSURE DIFFERENTIAL GAUGES
RANGES: 0 TO 100 FT. H₂O; 0 TO 300 IN. H₂O; 0 TO 500 IN. H₂O
 - B. MERIAM MODEL 10AA25 WM U-TYPE MANOMETERS
RANGE: 0 TO 30" HG
 - C. PRESSURE GAUGES
RANGE: 0 TO 60 PSI; 0 TO 100 PSI; 0 TO 200 PSI; -30" HG TO +60 PSI
 - D. SHORTRIDGE HYDRODATA MULTIMETER HDM-250
RANGE: 0.01-250.0 PSI / 400 PSI MAX
 - E. TIME DELTA-C ULTRASONIC FLOWMETER MODEL FSC-A19
RANGE: 1"-236" DIA. / -40°F TO -392°F / 1-32 M/S VEL.
4. TACHOMETERS:
 - A. SHIMPO MODEL DT-105 HAND HELD DIGITAL TACHOMETER
RANGE: 0 TO 25,000 RPM
 - B. BIDDLE MODEL 359920 HAND HELD TACHOMETER
RANGE: 0 TO 10,000 RPM
5. AMMETER/VOLTMETER:
 - A. AWS MODEL SPR-300
RANGE: 0 TO 600 AMP; 0 TO 600 VOLT
 - B. TIF 1000 LED
 - C. FLUKE MODEL 322 CLAMP METER
RANGE: 0 TO 400 AMP; 0 TO 600 VOLT
 - D. FLUKE MODEL 902 CLAMP METER
RANGE: 0 TO 600 AMP; 0 TO 600 VOLT

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AIR UNIT TEST SHEET

JOB NAME: ST. TAMMANY JUNIOR HIGH SCHOOL DATE 8/4/2025

SLIDELL, LA.

SYSTEM EX. AC-1

SPECIFICATIONS:

FAN: CFM 4000 TSP N/A ESP N/A RPM N/A BHP N/A O.A. CFM N/A

COOLING MBH _____ GPM _____ WATER ON _____ OFF _____

AIR ON DB/WB _____ OFF DB/WB _____ Δ TH _____

HEATING MBH _____ GPM _____ WATER ON _____ OFF _____

AIR ON DB _____ OFF DB _____

MBH _____ GPM _____ WATER ON _____ OFF _____

AIR ON DB/WB _____ OFF DB/WB _____

ELECTRIC HEAT = 75.0 AMPS / 208 VOLTS / 27.0 KW

TEST DATA:

UNIT TRANE SIZE TCH150D300BB SERIAL 639100815D

MOTOR G. E. HP 3.0 RPM 1725 VOLTAGE 208 FLA 9.4

TEST VOLTAGE 208 CORRECTED FLA -- MISC. --

STARTER / HEATER SIZE N/A RATING N/A RUNNING AMPS 6.0/6.3/6.1

FAN: CFM 3506 TSP 0.97" ESP 0.85" RPM N/A O.A. CFM -0.*

COIL:	AIR ON	AIR OFF	Δ		WATER ON	OFF	Δ T	MBH
COOLING	70.6/60.8	51.5/50.4	6.49	Δ TH	DX	--	--	101.26
HEATING	69.5	93.0	23.5	Δ T	ELECTRIC	--	--	89.04**
				Δ T				

ELECTRIC HEAT = 72.5 AMPS / 208 VOLTS / 26.1 KW

FLOW METER: MODEL/SIZE _____ DESIGN READING _____ TEST READING _____ GPM _____

COOLING _____

HEATING _____

TSP _____ ESP _____

MTR. PULLEY = 4 1/4" O.D. X 7/8"

FAN SUCTION = 0.69" 0.57"

FAN PULLEY = 8 1/2" O.D. X 1"

FAN DISCHARGE = 0.28" 0.28"

BELTS = B68

TOTAL STATIC = 0.97" 0.85"

* OSA BLANKED OFF

** ELECTRIC HEAT NOT ON LINE - READINGS FROM PRE-READ

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AIR QUANTITY EACH INLET/OUTLET

JOB NAME: ST. TAMMANY JUNIOR HIGH SCHOOL DATE: 8/4/2025
SLIDELL, LA.

SYSTEM EX. AC-1

AREA SERVED SUPPLY	OPENING		K FACTOR	REQUIRED		PRELIMINARY				FINAL	
	NO.	SIZE		VEL	CFM	VEL	CFM	VEL	CFM	VEL	CFM
A116	1	8"Ø	FLOW	HOOD	125					FH	116
A114	2	12"Ø	FLOW	HOOD	400					FH	372
A114	3	12"Ø	0.79	506	400					465	367
A114	4	12"Ø	FLOW	HOOD	400					FH	321
A111	5	12"Ø	FLOW	HOOD	375					FH	341
A115	6	8"Ø	FLOW	HOOD	125					FH	111
A113	7	8"Ø	FLOW	HOOD	125					FH	114
A108	8	8"Ø	FLOW	HOOD	125					FH	122
A106	9	8"Ø	FLOW	HOOD	150					FH	133
A109	10	8"Ø	FLOW	HOOD	125					FH	115
A110	11	12"Ø	FLOW	HOOD	375					FH	340
A107	12	12"Ø	FLOW	HOOD	400					FH	326
A107	13	12"Ø	0.79	506	400					408	338
A107	14	12"Ø	0.79	506	400					406	321
A112	15	6"Ø	FLOW	HOOD	<u>75</u>					FH	<u>69</u>
					4000						3506*
RETURN											
A114	1	48X12	4.00	N/A	N/A					420	1680
A107	2	24X24	1.36	N/A	<u>N/A</u>					993	<u>1350</u>
					4000						3030**
* AIR LEAKAGE OUT THE BOTTOM OF UNIT AND DISCHARGE DUCTWORK											
** RETURN READINGS INDICATE LEAKAGE - MOST LIKELY LEAKAGE AT UNIT OR DUCTWORK OUTSIDE											

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FAN TEST SHEET

JOB NAME: ST. TAMMANY JUNIOR HIGH SCHOOL
SLIDELL, LA.

DATE: 8/4/2025

	FAN # EF-A114	FAN # EF-A107	FAN #	FAN #
SPECIFIED				
Total CFM	500	500		
Fan RPM	N/A	N/A		
Total S.P.	N/A	N/A		
Motor H.P.	N/A	N/A		

TEST

Manufacturer	N/A	N/A		
Model #	N/A	N/A		
Serial #	N/A	N/A		
Size	--	--		
Motor Mfg.	VARI-GREEN	VARI-GREEN		
Motor HP	0.17	0.17		
Motor RPM	350-1475	350-1475		
Motor Volts	115	115		
Motor F.L.A.	2.4	2.4		

Run Amps.	1.94	1.96		
Heaters Size/Rtg.	--	--		
Line Voltage	121	121		
Total CFM	502	492		
Fan RPM	N/A	N/A		
Total S.P.	N/A	N/A		

Notes
