

2611 Waterfront Parkway, Ste. 340 | Indianapolis, IN 46214 | Tel. (317) 222-1828

Company Information and Qualifications



2611 Waterfront Parkway, Suite 340 Indianapolis, IN 46214 www.synergytab.com

Synergy Test and Balance Company Information and Qualifications

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Introduction

Synergy Test and Balance was formed in 2011 to provide independent, third party Test and Balance services. From then until 2012 we balanced 14 projects and established a portfolio of work allowing us to apply for certification through the Associated Air Balance Council (AABC), which we successfully completed in 2013. To date we have balanced over 60 projects.

The TAB experience of our personnel goes much deeper than Synergy's corporate history. Cheryl Yates' association with the Test and Balance field goes back many years. More recently she has focused on finance and business development, and has now combined that experience with her engineering background to become president of Synergy Test and Balance. As can be seen in our staff resumes, Jim Magee, Todd Yates, and Glenn Miller Jr. have combined TAB experience of nearly 60 years prior to the founding of Synergy Test and Balance. They have balanced some of the most complex facilities in the region, as well as many smaller projects. With this background we can provide a full range of Test and Balance services including:

Test and Balance for Air systems
Test and Balance for Hydronic systems
Duct leakage testing
Sound testing
Vibration testing

We provide TAB services in Indiana, Kentucky, Tennessee, West Virginia and the surrounding areas.

Contact Information

Our office is located at 2611 Waterfront Parkway, Suite 340 in Indianapolis, IN.

Contact:

Cheryl Yates, President Cheryl@synergytab.com Office: 317 222-1828

Fax: 317 451-8079 www.synergytab.com



Associated Air Balance Council

Annual Membership Certificate

Awarded to

Synergy Test and Balance, Inc.

as a member in good standing of the Associated Air Balance Council for the year

2017

This member has met all requirements for membership and is entitled to all rights and privileges of AABC certification. This certificate is renewable on an annual basis and expires December 31, 2017.

Michel Delcamp, President

Konneth M Dufka
Kenneth M. Sufka, Executive Director



Associated Air Balance Council

Annual Certificate

Awarded to

Glenn M. Miller

Synergy Test and Balance, Inc.

In recognition of his qualifications as a

Gerţified Test and Balance Engineer

under the rules, regulations, and requirements of the Associated Air Balance Council. The above named is fully authorized to perform total system balance in accordance with the standards as established by the AABC and as a member of the Associated Air Balance Council for the year

2017

This registration number 13-04-38 is fully recognized by the bylaws and charter of this professional association. Cerțification is renewable on an annual basis after examination of the agency's record for the preceding year. This cerțificate expires December 31, 2017.



Michael Delcamp, President

Kenneth M Dujka Kenneth M. Sufka, Executive Director



Associated Air Balance Council

Annual Certificate

Awarded to

V. Todd Yates

Synergy Test and Balance, Inc.

In recognition of his qualifications as a

Gerţified Test and Balance Engineer

under the rules, regulations, and requirements of the Associated Air Balance Council. The above named iş fully authorized to perform total system balance in accordance with the standards as established by the AABC and as a member of the Associated Air Balance Council for the year

2017

This registration number 97-06-34 is fully recognized by the bylaws and charter of this professional association. Cerțification is renewable on an annual basis after examination of the agency's record for the preceding year. This cerțificate expires December 31, 2017.



Michael Delcamp, President

Kenneth M Dufka
Kenneth M. Sufka, Executive Director





Cheryl Yates, President

EDUCATION

BSME, University of Kentucky Masters in Math Education, University of Kentucky

INDUSTRY EXPERIENCE BEGINNING 1992

CERTIFICATIONS

Engineer in Training (EIT)

AFFILIATIONS

Associated Air Balance Council (AABC)
AABC Commissioning Group (ACG)
American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE)
United States Green Building Council (USGBC)

EXPERIENCE

Facility Commissioning Group, Inc. (2008 – Present) Synergy Test and Balance, Inc. Indianapolis, IN (2011-Present)

Hardin County School District – North Middle School
Defense Supply Center Columbus – Building #20
Floro Torrence Elementary School #83
Kentucky Community and Technical College System
Franklin County Public School – Franklin County Alternative School
VAMC Louisville Robley Rex – Construct Chilled Water Distribution
Thomas A. Edison Key Learning Community School #47
Charles Warren Fairbanks Elementary School #105
Arlington Woods Elementary School #99
Ralph Waldo Emerson Elementary School #58
Ernie Pyle Elementary School #90
Margaret McFarland Middle School #112
Ameresco – Kentucky Horse Park Visitor Center & Museum Assessments





Glenn Miller Jr., Vice President

EDUCATION AAS, Paducah Community College, Studies at MSU

INDUSTRY EXPERIENCE BEGINNING 1990

CERTIFICATIONS/TRAINING

AABC Test and Balance Technician (TBT) #12-06-03 (2003-2011)
AABC Test and Balance Engineer (TBE) #13-04-38
ACG Commissioning Technician (CxT) #079-711
ACG Commissioning Authority (CxA) #1214-1254
OSHA 10 Hour and 30 Hour Occupational Safety and Health
USEC/HAZMAT Training (24 Hours)
NES/Operator Training (Scissor Lift and Boom Lift)

AFFILIATIONS

Associated Air Balance Council (AABC)
AABC Commissioning Group (ACG)

EXPERIENCE

Thermal Balance, Inc. Lexington, KY (1990-2011)
Facility Commissioning Group, Inc. Lexington, KY (2011-Present)
Synergy Test and Balance, Inc. Indianapolis, IN (2011-Present)

Hardin County School District - North Middle School - Elizabethtown, KY.

Defense Supply Center Columbus – Building #20 – Columbus, OH.

Floro Torrence Elementary School #83 - Indianapolis, IN.

Kentucky Community and Technical College System – Various locations

Franklin County Public School - Franklin County Alternative School - Frankfort, KY.

VAMC Louisville Robley Rex - Construct Chilled Water Distribution - Louisville, KY.

Thomas A. Edison Key Learning Community School #47 - Indianapolis, IN.

Charles Warren Fairbanks Elementary School #105 - Indianapolis, IN.

Arlington Woods Elementary School #99 - Indianapolis, IN.

Ralph Waldo Emerson Elementary School #58 - Indianapolis, IN.

Ernie Pyle Elementary School #90 - Indianapolis, IN.

Margaret McFarland Middle School #112 - Indianapolis, IN.

Ameresco – Kentucky Horse Park Visitor Center & Museum Assessments – Georgetown, KY.

Western Kentucky University – USDA – Bowling Green, KY

GE Aviation - Lafayette, IN.

Naval Weapons Support Center – Bldg's 2987, 3168 & 3173 – Crane, IN.

Bartholomew Consolidated School Corporation - Columbus North High School - Columbus, IN

Elizabethtown Community & Technical College - Science Building - Elizabethtown, KY

Petsense – Hopkinsville, KY.

Livingston County Middle School - Burna, KY

Henderson Community College - Welding Lab Relocation - Henderson, KY.

Bowling Green Metalforming - Kitchen / Cafeteria Expansion - Bowling Green, KY.





Jim Magee

EDUCATION BSME, University of Kentucky

INDUSTRY EXPERIENCE BEGINNING 1987

CERTIFICATIONS

Engineer in Training (EIT) #8892
ACG Commissioning Authority (CxA) #902-002
EMA Energy Management Professional (EMP) #412-E02
USGBC LEED Accredited Professional, LEED AP BD+C
AABC Test and Balance Engineer (TBE) #97-06-35 (1997-2008)
OSHA 10-Hour Occupational Safety and Health

AFFILIATIONS

AABC Commissioning Group (ACG), Past President
Associated Air Balance Council (AABC)
BCA Southeast Regional Chapter (SERBCA), Past President
Building Commissioning Association (BCA)
Co-author of AABC Commissioning Guideline for Building Owners, Design Professionals, and
Commissioning Service Providers, and ACG Commissioning Guideline-2005
American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE)
United States Green Building Council (USGBC)
International Society of Pharmaceutical Engineers (ISPE)

EXPERIENCE

Thermal Balance, Inc. Lexington, KY (1987-2008)
Facility Commissioning Group, Inc. Lexington, KY (1998-Present)
Synergy Test and Balance, Inc. Indianapolis, IN (2011-Present)

Lucas Oil Stadium

Boone County Schools – Thornwilde Elementary School

Hardin County School District – North Middle School

Defense Supply Center Columbus – Building #20

Kentucky Community and Technical College System

Franklin County Public School – Franklin County Alternative School

VAMC Louisville Robley Rex – Construct Chilled Water Distribution

Ameresco – Kentucky Horse Park Visitor Center & Museum Assessments





V. Todd Yates

EDUCATION BSME, University of Kentucky

INDUSTRY EXPERIENCE BEGINNING 1991

CERTIFICATIONS

PE in the Commonwealth of Kentucky #20447
PE in the State of Tennessee #001906392
PE in the State of Indiana #PE10001131
PE in the State of Alabama #27716-E
AABC Test and Balance Engineer (TBE) #97-06-34
ACG Commissioning Authority (CxA) #1004-042
USGBC LEED Accredited Professional, LEED AP BD+C

AFFILIATIONS

Associated Air Balance Council (AABC)

AABC Commissioning Group (ACG)

American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE)

United States Green Building Council (USGBC)

EXPERIENCE

Thermal Balance, Inc. Lexington, KY (1992-2008)
Facility Commissioning Group, Inc. Lexington, KY (1999-Present)
Synergy Test and Balance, Inc. Indianapolis, IN (2011-Present)

Floro Torrence Elementary School #83 Thomas A. Edison Key Learning Community School #47 Arlington Woods Elementary School #99 Ralph Waldo Emerson Elementary School #58 Ernie Pyle Elementary School #90

Margaret McFarland Middle School #112

Bartholomew Consolidated School Corporation - Columbus East and North High Schools

Purdue University - Lilly Hall Phases V, VI and VII

Purdue University - Marriott Hall

Purdue University - Roger B. Gatewood Mechanical Engineering Building

Jonathan Jennings Elementary School #109

Lexmark Buildings 32 and 35 TAB

UK Anderson Tower Lab

IUPUI - Neuroscience Research Building

IU Health - Neuroscience Center of Excellence

IUB - Jacobs School of Music East Studio Building



Jim Fitzpatrick

EDUCATION Graduate of Cincinnati, Ohio High School

INDUSTRY EXPERIENCE BEGINNING 1987

CERTIFICATIONS

Carpenter Apprenticeship
Allied Construction Industries, Building Survey Training Courses
OSHA 10 Hour and 30 Hour Occupational Safety and Health
ACG Commissioning Technician (CxT) #078-711
ITC Infrared Thermographer Level I #52175

AFFILIATIONS

Associated Air Balance Council (AABC)
AABC Commissioning Group (ACG)

EXPERIENCE

Facility Commissioning Group, Inc. Lexington, KY (2010-Present) Synergy Test and Balance, Inc. Indianapolis, IN (2013-Present)

Lexmark Building 32 – Room 8E2-3
Lexmark Buildings 32 and 35 TAB
Arlington Woods Elementary School #99
Charles Warren Fairbanks Elementary School #105
Ernie Pyle Elementary School #90
Lew Wallace Elementary School #107
Margaret McFarland Middle School #112
Ralph Waldo Emerson Elementary School #58
Theodore Potter Elementary School #74
Thomas A. Edison Key Learning Community School #47
Washington Irving Elementary School #14



Todd Miller

EDUCATION

AA, West Kentucky Community & Technical College Graduate, University Technical Institute

INDUSTRY EXPERIENCE BEGINNING 2016

CERTIFICATIONS/TRAINING

OSHA 10 Hour Occupational Safety and Health

EXPERIENCE

Facility Commissioning Group, Inc. Lexington, KY (2016-Present) Synergy Test and Balance, Inc. Indianapolis, IN (2016-Present)

Bullitt County Public Schools – Maryville Elementary School
Bullitt County Public Schools – Mt. Washington Elementary School
Danville Public Library - Additions and Renovations
Hyatt Place – Bowling Green
Indiana University Bloomington – Assembly Hall Mark Cuban Center
Jefferson County Public Schools – YPAS HVAC Renovation & Elevator Addition
Toyota of Bowling Green
United Healthcare – Tenant Improvements
VAMC Lexington – 5th Floor Main Addition
Warrick County School Corporation – Tecumseh Middle and High School





Shane Catron

EDUCATION

BS Telecommunications, University of Kentucky AA, Bluegrass Community & Technical College

INDUSTRY EXPERIENCE BEGINNING 2011

CERTIFICATIONS/TRAINING

Kentucky Electrical License #EE64580 OSHA 10 Hour Occupational Safety and Health

EXPERIENCE

Facility Commissioning Group, Inc. Lexington, KY (2016-Present) Synergy Test and Balance, Inc. Indianapolis, IN (2016-Present)

Bullitt County Public Schools – Maryville Elementary School
Bullitt County Public Schools – Mt. Washington Elementary School
Greenwood Community School Corporation – Greenwood Middle School
Jefferson County Public Schools – YPAS HVAC Renovation & Elevator Addition
Oldham County Detention Center
University of Kentucky – Neonatal Intensive Care Unit
University of Kentucky – Pavilion A 11th Floor
VAMC Lexington – 5th Floor Main Addition

Synergy Test and Balance Overall Projects List

Synergy TAB Inc. 2611 Waterfront Parkway, Suite 340 Indianapolis IN 46214 Phone (317) 222-1828 Fax (317) 451-8079

# Project Name 1 Hardin County School District - North Middle School 2 Defense Supply Center Columbus - Building #20 3 Floro Torrence Elementary School #83 4 Kentucky Community and Technical College System 5 Franklin County Public School - Franklin County Alternative School 6 VAMC Louisville Robley Rex - Construct Chilled Water Distribution 7 Thomas A. Edison Key Learning Community School #47 8 Charles Warren Fairbanks Elementary School #47 8 Charles Warren Fairbanks Elementary School #47 10 Ralph Waldo Emerson Elementary School #39 9 Arlington Woods Elementary School #39 10 Ralph Waldo Emerson Elementary School #39 11 Ernie Pyle Elementary School #39 12 Margaret McFarland Middle School #30 13 Ameresco - Kentucky Horse Park Visitor Center & Museum Assessments 14 Lew Wallace Elementary School #30 15 Theodore Potter Elementary School #37 16 Ashland Community and Technical College - Goodpaster Building TAB Work 17 Washington Irving Elementary School #174 18 Lexmark Building 32 & 35 TAB Lexmark Building 32 & 35 TAB Lexmark Building 32 - Room 8-E-2-3 19 University of Kentucky - Anderson Tower Lab 012 Lexmark Building 32 - Room 8-E-2-3 11 Elizabethtom Community & Technical College Hu TAB 12 Elizabethtom Community & Technical College Hu TAB 13 BCSC - Columbus North High School - 2014 Gym Reno 24 BCSC - Columbus North High School - 2014 Gym Reno 25 Park Plaza - Handras Restaurant 26 Park Plaza - Tres Molinos Mexican Grille 27 Park Plaza - Tres Molinos Mexican Grille 28 Park Plaza - Brode Asports Bar 39 Crane Building 318 Option 1b 30 Crane Building 318 Option 1b 31 Crane, IN 32 Crane Building 318 Option 1b 33 Crane Building 318 Option 1b 34 Crane, IN 35 WAMC - Memphis Building 1A 36 Memphis, TN 37 Lexmark Fumehoods Priget #144440 Henderson Community (Plaza - From Building 11 Amonth High School - 2014 Gym Reno Bowling Green, KY Park Plaza - Tres Molinos Mexican Grille Bowling Green, KY Park Plaza - Tres Molinos Mexican Grille Bowling Green, KY Park Plaza - Farch & Basil		Duniant Nama	Lacation
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45 BKD -Office Finish Out Bowling Green, KY		Western Rantiet Hospital - Doctors Office Ruilding #2	
		RKD Office Finish Out	
46 ITCC - Lawrenceburg Campus Addition/Renovation Lawrenceburg, IN			
47 LFUCG - Community Action Center Reroof Lexington, KY			
48 LFUCG - Coroner Office Reroof Lexington, KY	48		Lexington, KY
Fort Campbell - Blanchfield Army Community Hospital Fort Campbell, KY Repair/Renewal OR/SPD/SDS Fort Campbell, KY	49		Fort Campbell, KY
50 GE Aviation Lafayette, IN	50		Lafavette, IN
51 Store-It-All Owensboro, KY			
52 VAMC - Renovate Research Building 19 Louisville, KY			
53 Jackson Purchase Medical Center - MOB 3rd Floor Mayfield, KY			
54 UK - Patterson Hall Lexington, KY			
55 Bowling Green Metalforming - Kitchen-Cafeteria Expansion Bowling Green, KY	55	Bowling Green Metalforming - Kitchen-Cafeteria Expansion	Bowling Green, KY

Synergy Test and Balance Overall Projects List

Synergy TAB Inc. 2611 Waterfront Parkway, Suite 340 Indianapolis IN 46214 Phone (317) 222-1828 Fax (317) 451-8079

#	Project Name	Location
#	Grissom Air Reserve Base - Renovate Fuel Vehicle Maintenance	Location
56	B421	Grissom ARB, IN
57	Greenwood Community School Corporation - Greenwood Middle School	Greenwood, IN
58	Todd County Career Path Institute - New Facility	Elkton, KY
59	James H. Quillen VAMC Renovate Building 8	Mountain Home, TN
60	VAMC AHU Upgrades Phase 4	Louisville, KY
61	Alcoa Plant 2 AHU TAB	Laporte, IN
62	Murray Sate University - Waterfield Library	Murray, KY
63	Meijer Owensboro Store #288	Owensboro, KY
64	IMS Hulman Terrace Renovation	Indianapolis, IN
65	Jefferson County Public Schools - Greenwood Elementary School	Louisville, KY
66	Mammoth Cave National Park - Renovate and Rehabilitate Systems - Mammoth Cave Hotel	Mammoth Cave, KY
67	VAMC 7 North Halls and Walls	Louisville, KY
68	Bradie M. Shrum Lower Elementary School - HVAC Renovations	Salem, IN
69	Danville Public Library - Additions and Renovations	Danville, IN
70	Springs Valley Community Schools - Main Gym VRF HVAC	French Lick, IN
71	Community Schools of Frankfort - Frankfort High School Additions/Renovations	Frankfort, IN
72	Union County Schools - HVAC Projects	Union County (mult)
73	Fort Campbell - High School	Fort Campbell, KY
74	Bullitt County Public Schools - Mt. Washington Elementary School Additions and Renovations	Mt. Washington, KY
75	North Lawrence Community Schools - 2016 HVAC Improvements	Bedford, IN
76	Jefferson County Public Schools - YPAS HVAC Renovation & Elevator Addition	Louisville, KY
77	Oldham County Detention Center	LaGrange, KY
78	Lutheran Hospital - Lutheran Orthopedic & Spine Center - Operating Rooms	Fort Wayne, IN
79	Washington County Courts - Additions and Renovations	Salem, IN
80	Indiana University Bloomington - Informations & Computing Building Luddy Hall	Bloomington, IN
81	Walton Verona - Elementary School - Renovation	Walton, KY
82	Kroger Store #E783	Ashland, KY
83	Indiana University Bloomington - Assembly Hall Mark Cuban Center	Bloomington, IN
84	Warrick County School Corporation - Tecumseh Middle and High School	Lynnville, IN
85	Lincoln Village Youth Development Center	Elizabethtown, KY
86	Terre Haute Regional Hospital - Power Distribution Systems Upgrade	Terre Haute, IN
87	Bullitt County Public Schools - Maryville Elementary School Addition and Renovation	Louisville, KY
88	University of Kentucky - Neonatal Intensive Care Unit	Lexington, KY
89	Hyatt Place - Bowling Green	Bowling Green, KY
90	Arby's Restaurant - Benton	Benton, KY
91	Grissom Air Reserve Base - Renovate Maintenance Union and Logistics Facility B670	Grissom ARB, IN
92	University of Kentucky - Pavilion A 11th Floor	Lexington, KY
93	University of Kentucky - Anderson Tower Material Science Lab Survey	Lexington, KY
94	United Healthcare - Tenant Improvements	Indianapolis, IN
95	Toyota of Bowling Green	Bowling Green, KY
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Test and Balance Procedures for Air Systems

1. Obtain up-to-date specifications, drawings, and equipment submittals of the complete mechanical systems to be balanced. Compare installed equipment to design and check for completeness of installation.

2. Equipment Checks:

- A. Check fan housings, coils, louvers and filters to ensure they are clean and free of foreign material.
- B. Examine drives for proper belt tension and alignment.
- C. Check fan for proper rotation.
- D. Check automatic dampers for proper operation and position.
- E. Check that manual dampers are in the open and locked position.
- F. This agency will not continue the test and balance if conditions are observed that are hazardous to the air system. Such conditions will be reported before proceeding further.

Determine total airflow:

A. Airflow quantity of the fan will be determined by Pitot-tube traverse, unless impractical to do so. When the quantity cannot be obtained by Pitot-tube traverse, the sum of the outlet quantities will be used as the total CFM of the fan.

4. Adjust Outlets:

- A. Test and adjust diffusers, registers, and grilles to distribution pattern and design requirements. Special attention will be given to avoiding drafts and noise where possible when adjustments are made.
- 5. Variable air volume (VAV) system:
 - A. Adjust and calibrate the VAV flow rate controllers to the required minimum and maximum CFM.
 - B. Record correction factors or flow coefficients.
- Air Handler Unit data tested and recorded:
 - A. Manufacturer
 - B. Model Number
 - C. Serial Number
 - D. Size or Type
 - E. Fan CFM
 - F. Outlet CFM
 - G. Return CFM
 - H. Outside Air CFM
 - I. Fan RPM
 - J. Static Pressure Profile
 - K. Motor Manufacturer



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- L. Motor Horsepower
- M. Motor RPM
- N. Motor Volts and Phase
- O. Motor Service Factor
- P. Overloads
- Q. Motor Sheave
- R. Fan Sheave
- S. Belts
- 7. Air balance procedures will be in accordance with AABC Standards.



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Test and Balance Procedures for Hydronic Systems

- 1. Obtain up-to-date specifications, drawings, and equipment submittals of the complete mechanical systems to be balanced. Compare installed equipment to design and check for completeness of installation.
- 1. Equipment Checks:
 - A. Strainers and piping are free from debris, cleaned and flushed.
 - B. Balancing devices are set to the full open position.
 - C. Construction strainer baskets replaced with permanent baskets.
 - D. System filled to the proper level and the pressure reducing valve set.
 - E. Automatic and manual air vents installed and air is purged from the system.
 - F. Water expansion tanks are at the proper level.
 - G. Valves, flow meters and temperature/pressure taps installed correctly, accessible and functional.
 - H. Terminal coils installed, piped correctly, and accessible.
 - I. Pumps properly aligned, grouted and anchored.
 - J. Verify correct pump rotation.
 - K. This agency will not continue the test and balance if conditions are observed that are hazardous to the water system. Such condition shall be reported before proceeding further.
- 2. Determine total water flow:
 - A. Using "pump shutoff head" and its operating curve verify pump impeller size where practical.
 - B. Adjust pump to design flow and record data.
- 3. Adjust flow measuring devices:
 - A. If flow measuring devices are used, test and set design water flow to boilers, chillers and cooling towers.
 - B. Measure and adjust main and branch flow measuring devices to the required flow
 - C. Measure and adjust connected terminal units to design flow.
 - D. Record data from flow measuring devices.
- 4. Pump data tested and recorded:
 - A. Manufacturer
 - B. Model
 - C. Serial number
 - D. Impeller size
 - E. TDH (FT. HD.)
 - F. GPM
 - G. Discharge and Suction Pressures at full flow
 - H. Discharge and Suction Pressures at block off (where possible)



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- I. Motor Manufacturer
- J. Motor Horsepower
- K. Motor RPM
- L. Motor Volts and Phase
- M. Overloads
- 5. Hydronic balance procedures will be in accordance with AABC Standards.



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Duct Leakage Test Procedures

- Obtain up-to-date specifications, drawings, and equipment submittals of the complete duct systems to be tested. Compare installed duct to design and check for completeness of installation. Confirm duct test requirements from project specifications.
- 2. Determine Maximum Allowable Leakage:
 - A. Calculations are done for either of two typical specifications: percentage of system flow, or leakage class.
 - B. Calculate total duct system surface area if leakage class is used.
- 3. Determine Which Orifice Plate to Use:
 - A. The proper plate is the one where the maximum allowable leakage falls between the minimum and maximum leakage at the system static pressure (refer to manufacturer orifice plate chart).
 - B. Install orifice plate (refer to operating instructions).
- Connect Flexible Duct:
 - A. Connect flexible duct to orifice tube and confirm a sealed tight connection.
 - B. Connect flexible duct to duct system and confirm a sealed tight connection.
- 5. System Test Pressure Connection:
 - A. Drill a hole at least 3 feet away from the flex duct connection of the duct system.
 - B. Insert the pressure tubing from the "DUCT SYSTEM" gage so that 6 to 12 inches of tubing is inside the duct system.
- 6. Obtaining System Test Pressure:
 - A. Prior to starting the blower shut the inlet slide gate.
 - B. Turn the blower on and slowly open the inlet slide gate to obtain the system test pressure. Take care to avoid over-pressurization.
 - C. When system static pressure has been reached tighten the set-screw on the inlet slide gate.
- 7. Determining the Leakage Rate:
 - A. While system test pressure is being maintained note the pressure reading of the "ORIFICE TUBE" gage.
 - B. Refer to the calibration certificate to determine the leakage rate that corresponds to the gage reading.
 - C. Report test data on Duct Leakage report form.



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Sound Test Procedures

- 1. Obtain up-to-date specifications, drawings, and equipment submittals of the complete mechanical systems to be tested. Compare installed equipment to design and check for completeness of installation.
- 2. The test area must be cleared of all persons except test personnel.
- 3. The test area will be furnished in its normal manner. Items affecting room sound absorption, such as drapes, furniture, carpeting, etc., will be in place.
- 4. Indoor tests will be performed when outside noise levels are near minimum.
- 5. Microphones will be placed in the test area at the height from the floor and distance from reflective surfaces that is specified in the manufacturer's instructions.
- 6. Measure the sound pressure level with the equipment running.
- 7. Measure the sound pressure level with the equipment off.
- 8. Calculate the difference between the two readings. If the level of the total noise measured is less than 2 dB higher than the background noise, the level of the background noise is too high for an accurate measurement. If the difference is between 2 dB and 10 dB a correction may be necessary. No correction will be required if the difference is greater than 10 dB.
- 9. Sound measurements will be performed in accordance with AABC Standards.



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Vibration Test Procedures

- Obtain up-to-date specifications, drawings, and equipment submittals of the complete mechanical systems to be tested. Compare installed equipment to design and check for completeness of installation.
- 2. Confirm that there is no construction or other activity in progress that will interfere with the test.
- 3. Confirm that construction equipment that might interfere with the test is turned off.
- 4. Confirm that building vibration sources, such as an elevator, that might interfere with the test is off.
- 5. Clean the equipment being tested of grease, oil, or other substance that might cause slippage or improper contact of the vibration transducer.
- 6. Position the vibration transducer according to the manufacturer's instructions and where it will not interfere with the operation of the equipment being tested.
- 7. Test equipment under actual operating conditions and record data.
- 8. Vibration measurements will be performed in accordance with AABC Standards.



Synergy TAB Equipment					
<u>Type</u>	Model #				
Herman Sticht Contact Tachometer	2302				
Herman Sticht Contact Tachometer	2302				
Shortridge 1x4 Capture Hood	1x4				
Shortridge Flow Hood	Flow Hood 8405				
Shortridge Flow Hood	Flow Hood 8403				
Shortridge ADM	ADM-870				
Shortridge ADM	ADM-870				
TSI Hydronic Manometer	HM675				
Airflow Instrumentation Anemometer	LCA 6000				
24" Pitot Tube	160-24				
36" Pitot Tube	160-36				
48" Pitot Tube	160-48				
60" Pitot Tube	160-60				
Clamp Meter	CAT III Fluke 30				
Duct Leakage Tester	Oriflow Cobra				
Evergreen Wrist Reporter w/Thumbswitch					
Evergreen Pressure/Velocity/Flow Sensing Module					
Evergreen Temperature Module	RM-T-1				
Evergreen Air Insertion Temperature Probe	PR-T-1				
Evergreen Water Insertion Probe	PR-T-4-6"				
Evergreen Humidity/Psychrometric Sensor	S-H-3-5"				
Evergreen Capture Hood 15"	CH-15D-24'				
Evergreen Capture Hood 8"	CH-8D-14'				
Casella Sound Level Meter	CEL-620.B2/K1				
Fluke Vibration Meter	805 FC				

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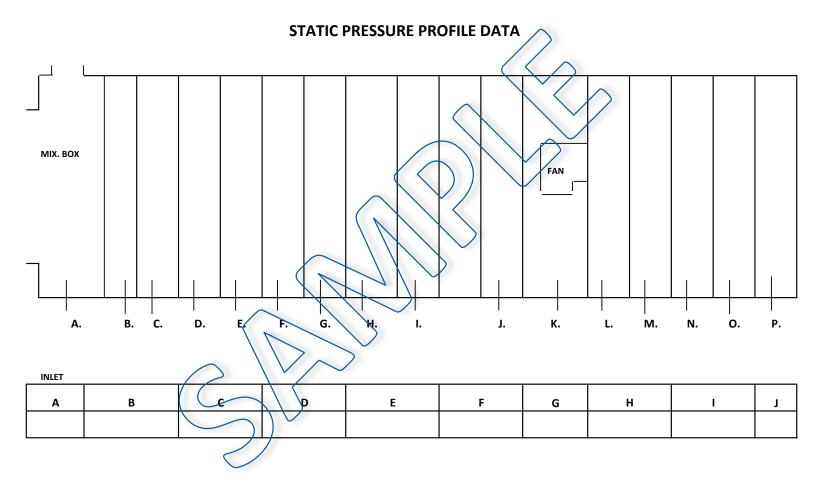
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RETURN AIR CFM			
OUTSIDE AIR CFM			
FAN RPM			
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SUCTION S.P. (IN. W.C.)			
DISCHARGE S.P. (IN. W.C.)			
MOTOR MANUFACTURER			
MOTOR HORSEPOWER			
MOTOR RPM			
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DUCT TRAVERSE DATA

ZONE	DUCT SIZE	T Y P E	AREA (ft²)	Required Velocity FPM	Required CFM	Actual Test Velocity FPM	Actual Test CFM	Duct Static Pressure IN. W.C.	R M K S
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TYPE: TYPE: 1-RECTANGLE, 2-CIRCLE, 3-FLAT OVAL
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OUTLET TEST DATA

	OUTLET	ROOM	OUTLET	OUTLET		DES	IGN	TEST	FIN	NAL	
AREA SERVED	NUMBER	NUMBER	TYPE	SIZE	A _k	FPM	CFM	CFM	FPM	CFM	RMK
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LOCATION								
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MANUFACTURER						\wedge		
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TERMINAL UNIT DATA

	Y	T Y	Υ			DESIGN CFM		ACTUAL CFM	
BOX#	LOCATION	P E	BOX ADDRESS	INLET SIZE	CAL. FACTOR	MIN	MAX	MIN	MAX
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TYPE: 1-Constant, 2-Variable, 3-Fan Powered (Parallel), 4-Fan Powered (Series), 5-Dual Duct

REMARKS			



PROJECT #:	PAGE:	DATE:
PROJECT NAME:		
SYSTEM:		
LOCATION:		
TECHNICIAN:		



ENERGY RECOVERY UNIT DATA

Manufacturer:	
Model Number:	
Serial Number:	

	SUPPLY	EXHAUS	ΓFAN	
	DESIGN	ACTUAL	DESIGN	ACTUAL
FAN CFM				
OUTLET CFM				
FAN RPM				
STATIC PRESSURE				
DISCHARGE S.P.				
SUCTION S.P.				
DELTA SP ACROSS ARC				
MOTOR MANUFACTURER				
MOTOR HORSEPOWER				
MOTOR RPM				
MOTOR VOLTS PHASE	\wedge			
MOTOR AMPS				
MOTOR SERVICE FACTOR				
OVERLOADS				
MOTOR SHEAVE				
FAN SHEAVE				
BELTS NO.				

REIVIARRS		



PROJECT #:	PAGE:	DATE:
PROJECT NAME:		
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FLOW METER DATA

LOCATION	STATION DESIGNATION	SIZE	DESIGN GPM	ACTUAL GPM	NOTATION
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Synergy Test
and
Balance

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PUMP DATA

PUMP NO.				7	PUMP NO.			
MANUFACTURER				1	MANUFACTURER			
SIZE					SIZE			
IMPELLER				1	IMPELLER	^		
SERVICE				-	SERVICE			
ļ.				_		/		
TEST DATA	GPM	FT. HD.	ВНР]	TEST DATA	GPM	FT. HD.	ВНР
DESIGN				1 /	DESIGN			
ACTUAL				1 (<	ACTUAL			
DISCHARGE		•	•	h \	DISCHARGE		•	
SUCTION			(1, \ \	SUCTION			
[△] P x 2.307			1	/ //	△P x 2.307			
-			\sim	111				
BLOCK OFF				1///	BLOCK OFF			
DISCHARGE			11] ~ /	DISCHARGE			
SUCTION		\sim			SUCTION			
[△] P x 2.307					[△] P x 2.307			
MOTOR MFG					MOTOR MFG			
HORSEPOWER		<i>></i> \ '			HORSEPOWER			
RPM					RPM			
VOLTS			/		VOLTS			
ACTUAL VOLTS					ACTUAL VOLTS			
AMPS					AMPS			
ACTUAL AMPS					ACTUAL AMPS			
OVERLOADS	V	FD PROTECTED			OVERLOADS			
REMARKS								



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DIRECT EXPANSION COOLING COIL DATA

Contain								
System								
Location						\longrightarrow		
Service								
Manufacturer	DESIGN	FINIAL	DECICAL	FINIAL	DECICAL	5000	DESIGN	
CFM	DESIGN	FINAL	DESIGN	FINAL	DESIGN	FINAL	DESIGN	FINAI
								<u> </u>
E.A.T, DB °F								<u> </u>
E.A.T, WB °F						\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		<u> </u>
L.A.T, DB °F					\			<u> </u>
L.A.T, WB °F								<u> </u>
МВН				11/	\longleftrightarrow			Ĺ
Custom				+++	1)			
System			1	7				
Location		^		$\overline{}$				
Service								
Manufacturer	DECICAL	FINAL	DESIGN	FINIAL	DECICAL	FINIAL	DECICAL	FINIA
CENA	DESIGN	FINAL	DESIGN	FINAL	DESIGN	FINAL	DESIGN	FINAI
CFM								
E.A.T, DB °F								
E.A.T, WB °F								
L.A.T, DB °F								<u> </u>
L.A.T, WB °F								
МВН								<u> </u>
REMARKS								



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UNIT NUMBER		
Manufacturer		
Capacity		
Model Number		
Serial Number		
<u>. </u>		
COOLER	Design	Actual
Entering Water Temp		
Leaving Water Temp		
Pressure Drop Ft.		
GPM		
CONDENSER		
Entering Air Temp		
ELECTRICAL		
Compressor Amps		
Compressor Volts		$\searrow \bigvee$
Fan Amps		
Fan Volts		
REMARKS		



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HEATING COIL DATA

	I		1				T	
System							1	
Location								
Service						<i>)</i>		
Manufacturer						\triangle	ļ	
	DESIGN	FINAL	DESIGN	FINAL	DESIGN	FINAL	DESIGN	FINAL
CFM								
GPM								
Coil P.D., FT.					\ \ \ /			
E.W.T, °F								
L.W.T, °F				V /				
E.A.T, DB °F								
L.A.T, DB °F								
Air MBH								
Water MBH			71					
System								
Location								
Service		>						
Manufacturer	1							
	DESIGN	FINAL	DESIGN	FINAL	DESIGN	FINAL	DESIGN	FINAL
CFM								
GPM								
Coil P.D., FT.								
E.W.T, °F								
L.W.T, °F								
E.A.T, DB °F								
L.A.T, DB °F								
Air MBH								
	-							
Water MBH				l				
		1						
Water MBH								
Water MBH								
Water MBH								
Water MBH								

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UNIT NUMBER			7	UNIT NUMBER		
Location			†	Location		
Service			1	Service		
Rating BTU Hour			1	Rating BTU Hour	\wedge	
Manufacturer			1	Manufacturer		
Model Number				Model Number		
Serial Number			1	Serial Number		
•			_			
SECONDARY HOT				SECONDARY HOT		
WATER	Design	Actual	_	WATER	Design	Actua
Entering Water Temp			4	Entering Water Temp		
Leaving Water Temp			_	Leaving Water Temp	\ \ \ \ /	
Pressure Drop Ft.			4	Pressure Drop Ft.		
Flow GPM			4	Flow GPM		
Control Setting				Control Setting		
LIAUT AULIA ADED			7	Library and	>	
UNIT NUMBER				UNITNUMBER		
Location				Location Service		
Service			1	Rating BTU Hour		
Rating BTU Hour Manufacturer			- / /	Manufacturer		
Model Number			\	Model Number		
Serial Number				Serial Number		
Seriai Number		\sim	<i>y</i> ~~	Serial Number		
SECONDARY HOT			7	SECONDARY HOT		
WATER	Design (Actual	X .	WATER	Design	Actua
Entering Water Temp			7	Entering Water Temp		
Leaving Water Temp				Leaving Water Temp		
Pressure Drop Ft.				Pressure Drop Ft.		
Flow GPM				Flow GPM		
Control Setting				Control Setting		
REMARKS						



PROJECT #:	PAGE:	DATE:	
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SYSTEM:			
LOCATION:			
TECHNICIAN:			

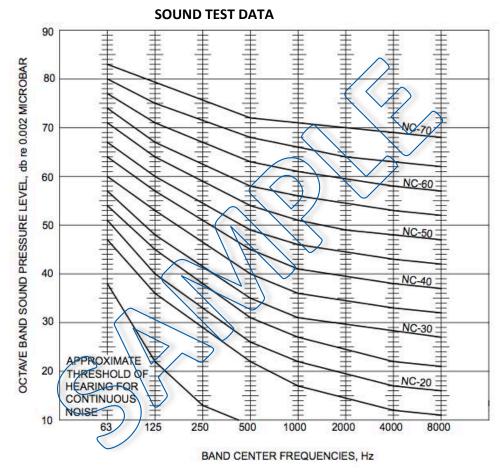


	TECHNICIAN:					
		HEAT EX	KCHANG	GER DATA		
UNIT NUMBER			1	UNIT NUMBER		
Location				Location	\wedge	
Service				Service		
Manufacturer				Manufacturer		
Model Number				Model Number		\rangle
Serial Number				Serial Number		
			_			
PRIMARY WATER	Design	Actual		PRIMARY WATER	Design	Actual
Entering Water Temp				Entering Water Temp		
Leaving Water Temp				Leaving Water Temp		
Pressure Drop Ft.			_ \	Pressure Drop Et.		
Flow GPM				Flow GRM		
МВН				МВН		
Control Setting				Control Setting		
SECONDARY HOT WATER				SECONDARY HOT WATER		_
Entering Water Temp		\rangle		Entering Water Temp		
Leaving Water Temp				Leaving Water Temp		
Pressure Drop Ft.				Pressure Drop Ft.		
Flow GPM				Flow GPM		
МВН				мвн		
Control Setting				Control Setting		
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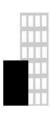
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LOCATION				OC.	TAVE BAND	S - EQUIPM	IENT ON			
LOCATION	ALL PASS	Α	63	125	250	500	1000	2000	4000	8000
LOCATION			•	OCT	AVE BAND	S - EQUIPM	ENT OFF			
	ALL PASS	Α	63	125	250	500	1000	2000	4000	8000

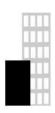
REMARKS		



2611 Waterfront Parkway, Ste. 340 | Indianapolis, IN 46214 | Tel. (317) 222-1828

Abbreviation and Acronyms

1.	AHU	Air Handling Unit
2.	BD	Belt Drive
3.		Brake Horsepower
4.	CC	
5.	CL	
6.	CB	
7.		
	CD	-
8.		
9.	DD	
10.		Dual Temperature Coil
11.		Exhaust Air Register
12.	ER	
13.	EX	
14.		Energy Recovery Unit
15.	ESP	External Static Pressure
16.	FO	Fully Open
17.	FX	Fixed
18.	FH	Fume Hood
19.	FLA	Full Load Amps
20.	HC	-
21.	HW	
22.		Information Not Available
23.	INACC	
24.	MAU	
25.	MAX	•
26.	MIN	
27.	MTR	
27. 28.		
20. 29.	NA	
_	ND	
30.	NI	
31.	NL	
32.	NR	<u> </u>
33.	NS	•
34.	NW	
35.	OD	
36.	PD	Pitch Diameter
37.	RAG	Return Air Grille
38.	RHC	Reheat Coil
39.	RR	Return Register
40.	SF	<u> </u>
41.	SAG	
42.		Supply Air Register
43.	SF	
44.	SLOT	=
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Abbreviation and Acronyms

45.	SR	. Supply Register
46.	TP	. Thermally Protected
47.	TSP	. Total Static Pressure
48.	VFD	. Variable Frequency Drive