

“Getting to Zero Tech Forum”

With Audit Master Pro (AMP)



**AMP–The quickest
path to meeting
net zero goals**

Opening

Introducing AuditMaster Pro

Patented audit processes
take energy efficiency to
new levels beyond
optimization, commissioning,
and testing and balancing



Good afternoon. Imagine being able to test any HVAC system, from a 1-ton unit to a 1,000-ton chiller, in just 5 to 15 minutes. Imagine getting results instantly, without disrupting building comfort, and having a detailed report in your hands before the equipment has even cooled down. That's AuditMaster Pro.

The Challenge

THE CHALLENGE

- Rising utility bills and the pressure to meet Net Zero and ESG targets
- Most HVAC systems operate far below their true potential
- Inefficiencies cost money, waste energy, and make meeting sustainability goals a constant uphill battle



Buildings everywhere face rising utility costs, performance inefficiencies, and mounting ESG and Net Zero pressures. HVAC systems are often operating at only 30– 80% efficiency, which at 80% efficiency can increase costs by 25% per hour. These efficiency losses ripple through connected systems, chillers, boilers, cooling towers, pumps, and compressors, fans, making energy waste an expensive, ongoing problem.

The AMP Solution

THE AMP SOLUTION

- Designed to teach techniques and processes using patented technologies to identify HVAC performance
- Testing of any HVAC system or component is only 5 to 15 minutes, excluding 2 to 4 hours of system preparation
- Testing and reporting are standardized across like systems



AuditMaster Pro (AMP) is patented, real-time HVAC testing and optimization processes built into the software that applies the sciences of **Thermodynamics, tracer gas testing, psychrometrics, and the conservation of energy**. It **standardizes testing** for any system or component, no matter its size, ensuring identical procedures and results across like systems. Our processes are **primarily non-invasive**, cycling the system on and off once for 5 to 15 minutes, minimizing comfort impacts. Fluctuations in discharge temperature are rarely noticed in this short window.

Metrology & Tools

Metrology and Tools

- Primary metrology and tools required are readily available
- Off-the-shelf standard tools used by all technicians in the energy industry, commissioning industry, and testing and blancing industry
- Typical tools are hygrometers reading dry bulb and wet bulb, fluid flow meters air and water which are standard tests and balance equipment, static pressure gauges or indicators, volt amp meters, and when testing DX refrigerant systems, standard refrigerant gauge sets



AMP uses standard, off-the-shelf field instruments, **hygrometers, fluid flow meters, static pressure gauges, volt/amp meters, refrigerant gauges**, tools every technician in the industry already knows. We integrate this with a software-directed process that eliminates inconsistencies and ensures precise performance verification.

Results & Impact

BUILDINGS NEEDING AMP PATENTED PROCESSES TO MEET NET ZERO

These are not to be considered an ECM opportunity, consider the buildings that have all been optimized, commissioned, tested, balanced, inventory, where AMP takes buildings far beyond what could ever be done in terms of energy efficiency and comfort prior.



Working with **Willis Tower**, AMP delivered up to **45% HVAC efficiency improvements**, verified by two independent firms. **One O'Hare Center** cut its utility costs by **80%**, from **\$3.32** to **\$0.69 per square foot**, with **ROI in under 3 months**. Optimizing fluid flow and heat transfer to near 100% **not only lowers costs but reduces carbon emissions**, helping meet **ESG and Net Zero goals** while cutting the need for costly carbon **Renewable Energy Credits (RECs)**.

AMP Training

TRAINING TECHNICIANS

UniBES, creator of AMP, trains technicians in software use and field testing procedures. Training is conducted at College of DuPage, Triton College, Local 399 Building Stationary Engineers, and under CEJA through Aurora's Energy Hub or CEJA Illinois.



AuditMaster Pro (AMP) doesn't just do the testing; **our primary focus is training technicians to do it right.** Through programs at the **College of DuPage, Triton College, and the State of Illinois CEJA grant program** via Aurora's Energy Hub (CEJA – Illinois' Climate and Equitable Jobs Act, advancing clean energy and workforce development.), we're building a workforce that's fully AMP-certified and job-ready. **We hold the patents, the process, and the results.** Let's make efficiency the standard, not the exception.