

Testing Services

EXPERTISE

APEC Mechanical has a dedicated team to serve their clients by accurately assessing their building performance while identifying how operational efficiency and functionality meet the planned needs of their building.

COMMITTED PROFESSIONALS

Our purpose is to deliver excellence in every project, from pre-construction to construction and beyond. Testing Services are essential components of superior project delivery. Our experience, initiative, and elite performance are the keys to our growth and success.

CETA REGISTERED

APEC Mechanical provides clients with complete quality assurance just as the Controlled Environment Testing Association (CETA) is committed to promoting and developing quality assurance within the controlled environment testing industry. APEC Mechanical is a proud member of this organization.

Peer Review

APEC Mechanical represents the client's best interests by working collaboratively alongside the design and construction teams to ensure that established objectives for long-term durability, serviceability, and performance are maintained throughout the Schematic Design, Design Development, and Construction Document phases of the design process. During the Pre-Construction and Construction phases of the project, APEC Mechanical will continue to work closely with the design and construction teams to further develop and refine the design.

Pre-Building Plan and Design Review

This service assists in determining the balance ability of a system, thus reducing the time required for balancing and contributing to more efficient and economical system performance.

Types of Testing

Functional Performance Testing

Functional Performance Testing of equipment and systems is at the heart of the commissioning process. Equipment operation during the tests is performed by the appropriate contractor or equipment manufacturer, but the responsibility for directing, witnessing, and documenting the tests rests with the commissioning authority.



Indoor Environmental Air Testing

Most Indoor Air Quality (IAQ) problems are system related and can be traced to microbial contamination and/or poor ventilation. APEC Mechanical can conduct a basic IAQ investigation to identify the source(s) and recommend appropriate remediation of IAQ problems.

Life Safety Testing

We ensure fire and smoke control systems are tested and verified in accordance with local regulations and codes.

More Testing Services

Verification and Certifications

Controls Verification

Controls are set to a proper fixed mode to prevent any changes during the balancing and until proper operation is verified.

Hood Certification

Proper testing and certification of fume hoods and biological safety cabinets is crucial for a safe environment. Total flow quantities—both exhaust and supply, as well as face velocities—is adjusted in order to achieve effective performance of the hood exhaust systems.

Cleanroom Certification

Cleanroom Testing Engineers test and certify cleanrooms and other controlled environments in accordance with industry standards and practices. APEC Mechanical is a member of the Controlled Environment Testing Association.



Air and Water Balance

Total System Balance is the process of testing, adjusting, and balancing HVAC systems and subsystems to perform at the design intent and operate at the optimum level. The process includes a review of the design documents, construction observation, and a methodical approach to testing and balancing that yields verifiable results.

Energy Calculation and Rebates

APEC Mechanical continues to develop foundational energy saving calculation tools and other resources to encourage greater consistency and technical rigor in the commissioning process.

... and much more!



“ I thought about dust particles.

Where are these rascals generated?

Where do they go? ”

-Cleanroom Inventor,
Willis Whitfield