



HVAC Hygiene Assessment

HVAC Hygienic and Performance Verification

Is Your HVAC System Running Optimally?

If Not, It Can Lead To:

- High Energy Cost
- Poor Comfort
- Reduced Employee Productivity
- Building Occupant Complaints
- Indoor Air Quality Problems



Why do you need HVAC Hygienic & Performance Verification Testing

Our HVAC Hygienic Assessment precisely lets you know the impact your HVAC system has on your facilities Indoor Air Quality (IAQ) and bottom line. Over time your HVAC system can become dirty which in turn can decrease its performance and degrade your facility's IAQ to the detriment of the occupants' health.

The HVAC system can be viewed as the cardiovascular and respiratory system of a building, supplying conditioned air to all areas. The air handler is the heart of the system since this is where outdoor air is drawn in, filtered, conditioned and mixed with return air. This "supply" air is then distributed through a network of ducts to and from areas of the building. Basic components include dampers, fans or blowers, heating and cooling coils, air filters, boilers or furnaces, compressors, ductwork to convey the air and

diffusers or registers to distribute the air evenly. A number of controlling mechanisms, including thermostats, sensors and actuators, help control the distribution of air throughout a building. Routine preventative maintenance is the key to avoiding premature wear and tear on components that can lead to repair or premature replacement.

Therefore, it is critical to be aware of the system's condition and components, to perform routine cleaning and do

Our HVAC Hygienic Assessment can include:

Visual Site Inspection



We will visually evaluate your HVAC System, paying close attention to the condition of the AHU, evaporator coils, pan, rails and blower. Our primary interest is to detect signs of allergens. We will also have a look at the ducts for microbial growth, dust, debris or other obstructions.

Environmental & Mechanical Testing



Our team of building scientists can perform tests for: differential pressure across the coil, relative humidity, allergens, microbial growth, Legionella and more. Plus both air and surface samples can be collected from the HVAC system for analysis. We also offer total air handler and system performance evaluations including: Electrical usage, fan RPM, cooling output in BTU, chilled water volume usage in GPM and smoke detector differential testing.

Our Valued Customers:



FLORIDA STATE UNIVERSITY



HARVARD MEDICAL SCHOOL



minor repairs. This will extend equipment life and allow for major repair or replacement to be scheduled at a time when it has less impact on disrupting business.

Over time, "dirt, dust, debris" can lead to the demise of an HVAC system. At a minimum, unwanted contaminants can inflict damage to equipment that leads to premature wear and tear, increased maintenance costs, increased cleaning costs and lower operating efficiency.



Think of us as building practitioners giving your system a check up, diagnosis and prescription for building health.

Environmental Lab Analysis



Environmental Diagnostics Laboratory (EDLab) will provide expert analysis. Your samples are analyzed under the supervision of PHD scientists and matched to our in-house library of over 200,000 samples (one of the largest microbial databases in the U.S.) We will qualify and quantify any allergen content found to determine the impact it might have on your facility.

Comprehensive Report



A detailed, yet easy to understand report will be provided to you. The report is photo documented, and even contains a glossary for reference. It will help us, together, come up with a plan to remedy any issues found. The report can also be used to illustrate the gains made through remediation.

HVAC Key Performance Indicators:

- Air Conveyance System
- Air Filters
- Air Handling Equipment
- Air Velocity
- Air Volume and Number of Changes
- Airborne Contaminants as Related to Indoor Air Quality
- Differential Pressure
- Electrical Usage
- Precipitated Particulate / Allergens Load
- Smoke Detector Differential
- System Pressure
- Temperature Differential
- Thermal Comfort
- Total Supply Air CFM
- Ventilation

The HVAC Hygiene Assessment evaluates key performance indicators (KPI) that affect both building health and energy efficiency. It's important to understand that these KPI are interconnected and work together to maintain overall performance. When one or two of these parameters start to degrade a chain reaction can occur affecting the others. This domino effect can then quickly escalate into serious issues that affect the building and its occupants.

Don't let that happen to your facilities. Contact us today to get started with better HVAC hygiene and performance!



Building Health Check

Be sure to ask us about our Building Health Check!

This economical IAQ testing service looks at the state of the entire building envelope, including the HVAC equipment and ductwork.

Our main goal is – healthy buildings, healthy people.

Contact us today to get started.

1-800-422-7873

or visit: www.PureAirControls.com



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