

# Solutions for a Healthier Environment



At IAQ, We...



**DETERMINE THE SOURCE.**  
**DEFINE THE CAUSE.**  
**DELIVER THE SOLUTION.**



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# Indoor Air Quality Consultants



## INDOOR AIR QUALITY AND YOUR HEALTH

People spend the majority of their time indoors, where they face significant health risks due to repeated exposure to air pollutants in their indoor environments. Exposure to these pollutants can lead to numerous immediate and long-term health problems.

### WHAT CAN IAQ DO?

IAQ provides assessment and consultancy services in the fields of science and environment. We undertake testing, remediation and the application of technology with the aim of achieving a better indoor quality for your environment.

IAQ supports a full range of Indoor air quality professionals including industrial hygienists, IAQ consultants, environmental specialists, mold remediation and AHU contractors, hospitals and medical professionals, public health departments, building owners and commercial property managers, the insurance industry, real estate and legal professions.

*"At IAQ, our vast experience in indoor environment has earned us a reputation for delivering customized Solutions for Healthier Environments."*

*"We go for the Source, not the Symptoms."*

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# IAQ Laboratory Services

## Bioaerosols Assessment and Control

The objective of indoor air or surface sampling is to help determine the level of biological particles present in your environment. These contaminants can cause irritation or any adverse short or long term health effects. Tests can locate the sources of indoor microorganisms to facilitate an effective remediation.

## Agar Impaction Sampling

Culturable sampling is one of the most common methods of volumetric air sampling devices. The sampler works by drawing measured volumes of air through an instrument that contains a petri dish and a culture media. Spores that impact onto the plate are then allowed to incubate and grow, after which the colonies are counted and identified.

## Non-culturable Spore Trap Sampling

Non-culturable spore trap samplers draw measured volumes of air through the sampling device for a specified length of time. The collection surface is a coated glass slide. Particles in the air (spores, dust, etc.) impact onto the sticky surface and are “trapped” for analysis.

## Surface Swab Sampling

Surface samples can be taken by tape lift imprint, swabbing the suspect surface with a culturette swab, or submitting a bulk sample of the suspect surface using a petri dish.

Air and surface sampling are used to identify biological agents and understand conditions that allow to their growth. It further demonstrates possible pathways from environmental sources of biological agents to occupants by understanding its effects to health.

The success of any sampling method and its true results are very dependant on the microbiologist and correct data interpretation. Species and genus will identify the resident microbes. IAQ’s vast experience in indoor environment sampling, has earned us a reputation as experts at locating sources of microbial contamination.

*“Our key specialty is environmental diagnostics sampling and speciation of bacteria and fungus. Identifying the types of microbes help identify the source of the pollutants amplification or reservoirs which will assist in making informed decisions that will reduce risks and improve occupant health.”*

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# Environment Laboratory Services

## Specific Indoor Air Contaminants

### **Carbon Dioxide (CO<sub>2</sub>), ppm**

The carbon dioxide content monitored using Indoor Air Quality Gas Monitor.

### **Carbon Monoxide (CO), ppm**

The concentration of carbon monoxide determined by means of a Toxic Gas Monitor with CO Sensor.

### **Formaldehyde (HCHO), ppm**

The formaldehyde content analyzed based on Photo Acoustic Sensor.

### **Ozone (O<sub>3</sub>), ppm**

The concentration of Ozone in air measured by means of a Toxic Gas with ozone sensor

## Specific Physical Parameters

### **Relative Humidity and Temperature**

The relative humidity and the air temperature measured by means of an Indoor Air Quality Monitor.

### **Air Movement and Air Flow**

The air velocity and airflow measured by means of an anemometer

## Specific Classes of Contaminants

### **Respirable suspended particulate (RSPs), /m<sup>3</sup>**

The respirable suspended particulate measured by means of a Portable Dust Monitor from 0.75µm to 10µm.

### **Volatile Organic Compounds (TVOCs), ppm**

The total volatile organic compound determined by means of a Portable Photo Ionization Detection System.

### **Total Bacteria And Fungal Counts, cfu/m<sup>3</sup>**

The indoor air sampled by means of an Andersen Single Stage air Sampler at a sampling volume of 160 liters.

*"We offer a full range of indoor environmental testing service using Singapore Indoor Air Quality Standard SS554:2009, World Health Organization (WHO) or United States Environment Protection Agency (EPA) standards."*

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# Building and Remediation Services

## BUILDING SCIENCE

IAQ Building Science multi-disciplined team provides indoor environmental quality (IEQ) testing consultations, on site IEQ investigations and environmental evaluations.

Specialized equipments and instruments are used to evaluate building environment conditions like robots to inspect ductwork utilising non-invasive imaging for a thorough evaluation of the premises.

IAQ stands for its unique capability to provide accurate diagnostics, laboratory testing, remediation and evaluation to ensure good indoor air quality for you.

## REMEDIAL SERVICES

As the industry leader in the field of remediation, prevention and control, IAQ provides professional services to commercial, industrial, residential and institutional premises.

We have equipment such as negative air machine and air scrubbers to capture airborne contaminants, ozone machine to remove foul smell, anti-microbial to prevent and control microbes, ducting robots to decontaminate contaminated duct works and the latest technology Dry Fusion blasting to decontaminate at sub micron level.

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