

# Cleaner air, safer workplaces

## The importance of indoor air quality



TECHNICAL SERVICES

The global pandemic has brought to the forefront just how important fresh air circulation and a healthy environment is to well-being and performance in the workplace.

Good ventilation and the flow of fresh air reduces the risk of virus and germ transmission and is of paramount importance in the new normal.

The UK government have recently acknowledged the significance of indoor air quality (IAQ) and plan for legislation to be updated to address the issue, directly affecting the design of heating, ventilation, and air conditioning (HVAC) systems, in new buildings to increase fresh air intake

up to 50% more than the current standard minimum. And what for our current workspaces? A combination of our environmental experts, rigorous cleaning and cutting-edge technology will ensure your business' Indoor Air Quality (IAQ) is exceptional and 'Air Changes' are consistently monitored (such as carbon dioxide levels), providing your business with an optimised, maintained and safe environment.

We will achieve improved Indoor Air Quality, system optimisation and monitoring through Mitie's three stage process: Prepare, Protect and Preserve.



### PREPARE

Detailed surveying and analysis of current HVAC systems with full risk report and recommendations for improvements, followed by deep cleaning regimes of hidden air ducts.

### PROTECT

Implement recommended improvements, including enhancing protective regimes and using technology to cleanse the air of viruses and germs.

### PRESERVE

Install sensors to monitor air quality, with the ability to remotely diagnose faults and issues, adjust parameters and identify adverse trends or patterns.



#### Did you know?

CO<sub>2</sub> Levels are recommended to be below **800 ppm** in commercial and office spaces

Fresh air supply rate should not fall below **5-8 litres** per second, per occupant

Mitie's remote monitoring of air changes and building performance ensures **peace of mind**

## How do we do it?

### 1 PREPARE

Hidden air ducts, filters, vents and HVAC systems which account for extensive dust and germ accumulation and potential virus spreading must be analysed.



#### SURVEY

A thorough end-to-end survey will be conducted **starting from the source** of air intake externally, following the flow of air and establishing the levels of dust and bacteria build-up throughout the system.



#### REPORT

The survey is followed by a **bespoke report with recommendations** for any remedial work/ recommendations required.

### 2 PROTECT



#### CLEAN

Duct cleaning will be delivered manually by specialist technicians who will **thoroughly clean and cleanse all vents, refresh or replace filters** and ensure functionality is optimal.



#### MAINTAIN

On completion, our team will **recommend the frequency of follow-up** surveys, based on several factors including usage and age of the building. Typically, we expect this to be an annual event.



#### STERILIZE

Combining high energy and low wavelength eradication, Ultraviolet germicidal inactivation (UVGCI) technology provides an added layer of protection and assurance. UVGCI is an extremely effective air cleansing technology and is recommended by the CIBSE to reduce the levels of viruses and harmful airborne infections. These can be fitted as direct or indirect systems.

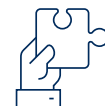
### 3 PRESERVE

Mitie's Connected Workspace sensor technology offers remote monitoring of HVAC systems and air levels. Our 24-hour Service Operations Centre (SOC) in Manchester connects to our Internet of Things sensors to constantly monitor air quality, asset performance, and environmental factors, ensuring a safe environment for building users with optimum levels of ventilation which are within safe parameters.



#### MONITOR

Our expert engineers at the SOC can **remotely adjust air levels or alert one** of our connected engineers in the field if further intervention is required.



#### PRESERVE

Remote monitoring and diagnosis of problems means **reduced visits and fewer people on site; enabling social distancing compliance** and ensuring mothballed or low occupancy buildings are constantly monitored.

## What does this mean for your business?



Helps to reduce the circulation of viruses and bacteria within offices and other working environments



Increases oxygen availability and reduces carbon dioxide levels mould and fungi reproduction



Provides reassurance to colleagues and building users that the environment is safe



Maintains a comfortable temperature and humidity ensuring a more productive working environment



Well-maintained and correctly calibrated equipment is more efficient and reduces potential fire and health risks



Increased wellbeing of buildings' occupants