



Managing **COVID** risks using air conditioning and IAQ initiatives

Helping you mitigate **COVID** risks



Optimising the circulation of fresh, clean air and managing occupancy movement throughout the indoor environment are two of the largest challenges facing facility managers in managing COVID safe spaces.

As a leading provider of air conditioning, building optimisation and Indoor Air Quality (IAQ) remediation, Precise Air Group has designed a three step solution* to help you manage your facility during these difficult times:

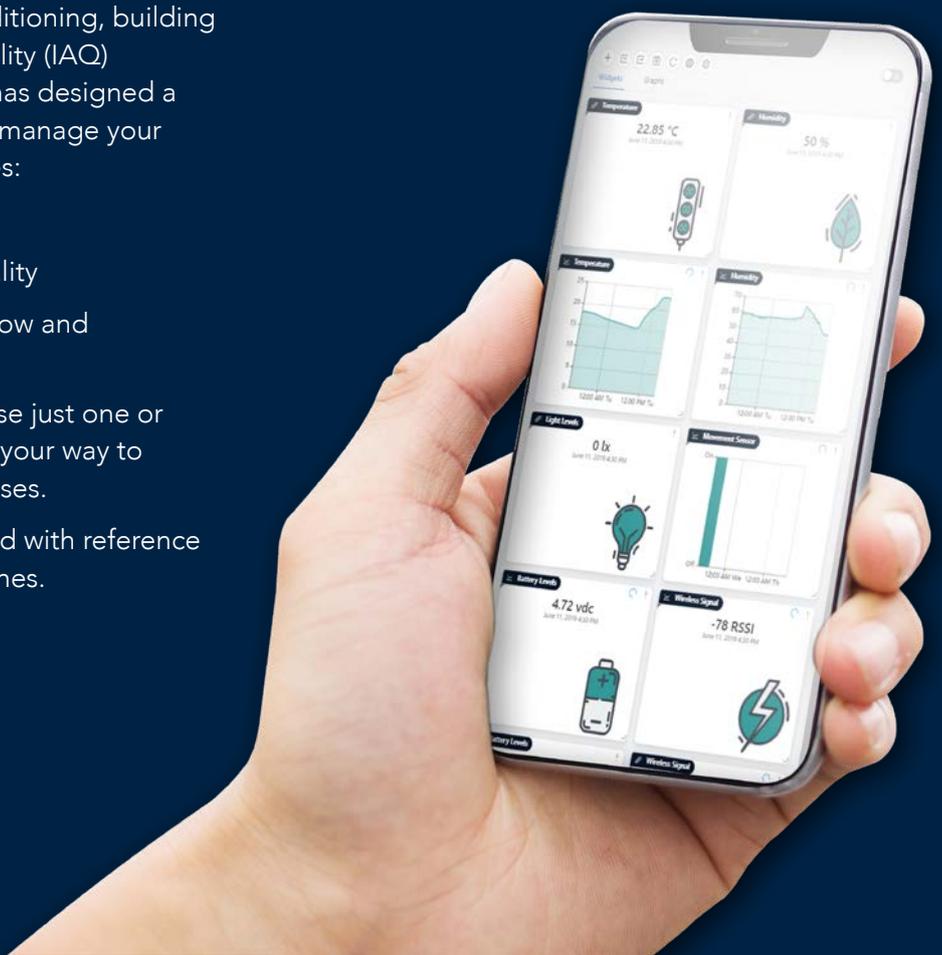
Step 1. Increase ventilation

Step 2. Improve Indoor Air Quality

Step 3. Control occupancy, air flow and Co2 monitoring through IoT

Regardless of whether you choose just one or all of these steps, you will be on your way to reducing the risk of airborne viruses.

* Our solution has been designed with reference to ASHRAE and AIRAH guidelines.



Increase ventilation



Apply the applicable Australian Standards to ensure that your systems provide the recommended outdoor airflow rates for ventilation.

Step 1. Increase ventilation

There are a number of quick wins that will increase the circulation of clean air throughout your building.

Review air conditioning settings

Reduce or limit the recirculation of air throughout your building. Use your BMS to review and monitor Co2 levels.

Review air flow and fresh air

Increase fresh air ventilation by maximizing HVAC outdoor air intake. Open windows and doors where it's feasible to do so, but make sure that it doesn't impact on air conditioning performance or cause strong currents of airflow that could increase person-to-person transmission.

Check exhaust fans in restrooms and facilities

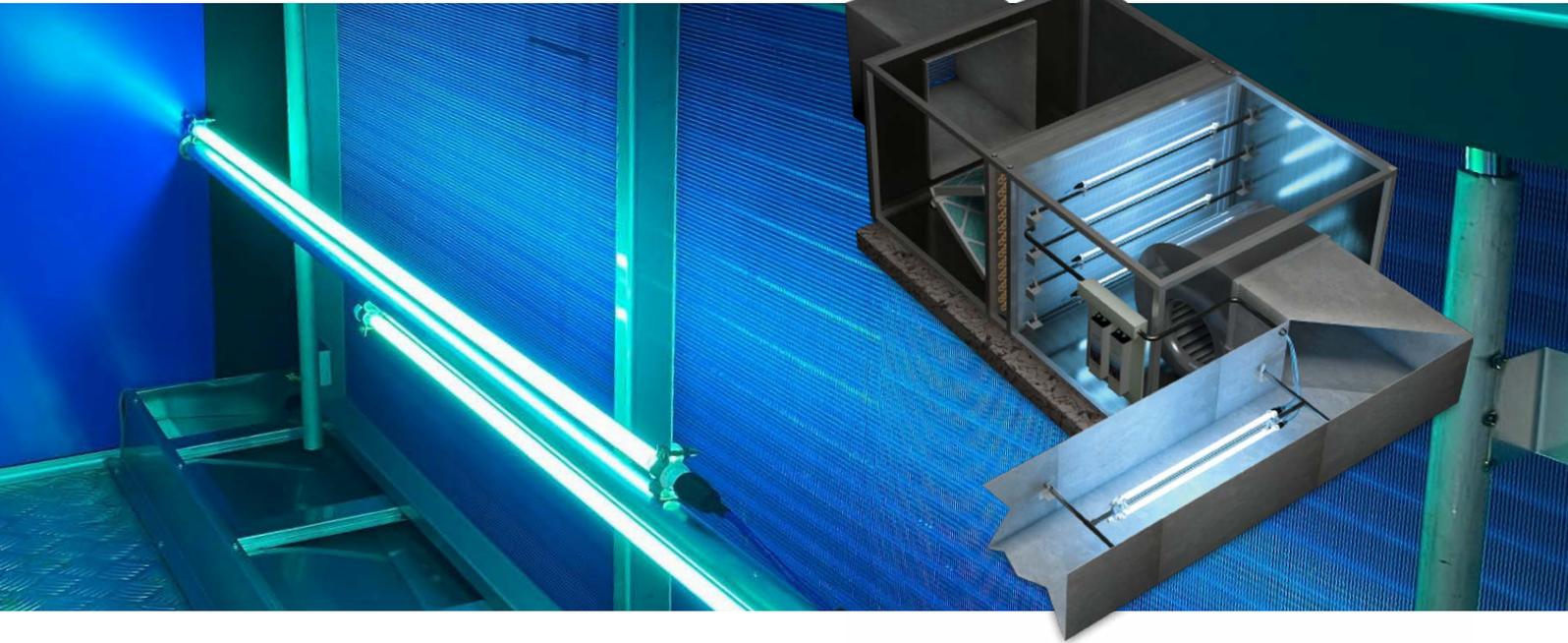
Exhaust fans must be functional and operating continuously at full capacity when occupied. Fans must be directed outdoors and away from windows and air intake systems of any surrounding buildings.

Check portable air purifiers and fans

Portable air purifiers and fans are only safe to use in areas with one person. Air must not directly blow from one person to another.

Remember that they must be maintained and operated in accordance with the manufacturer's instructions.

Improved Indoor Air Quality



Indoor air quality is impacted by microbial growth including bacteria, mould, fungi and viruses. Cleaning and filtration at the source of your circulating air is key to reducing transmission the air conditioning systems.

Step 2. Improved Indoor Air Quality

Conduct chemical coil cleaning

Chemical coil cleaning removes contaminants associated with health complaints and improves energy efficiency

This is an ongoing process as dirt, VOCs and microbial growth build up over time. They must be inspected quarterly and cleaned as required under AS3666.2

Improve filtration with MERV13 filters

Filters are an important barrier between HVAC systems and the air recirculating throughout your building.

MERV 13 filters:

- provide excellent filtration preventing viruses, mould and bacteria moving through ductwork and into the indoor environment

- avoid significant drops in pressure, which would negatively affect the efficiency of the HVAC plant.

Install UVC lighting for continuous cleaning

UVC lighting installed on AHUs provide continuous chemical free, ozone free and VOC free cleaning:

- neutralising volatile organic compounds (VOCs) and microbial growth (including mould, bacteria and dirt) leaving coils free of contaminants
- eliminating indoor air odours and the spread of bacteria and mould that leads to sickness and employee absenteeism
- retaining coil heat transfer capabilities, minimising additional strain on chillers and pumps and reducing energy consumption

Controlling occupancy, air flow and Co2 monitoring through IoT



Precise Air provides a low cost monitoring, control and reporting solution for clients who want to take control of occupancy rates and movement.

Step 3. Controlling occupancy, air flow and Co2 monitoring through IoT

Precise Air provides a low cost monitoring, control and reporting solution for clients who want to take control of occupancy rates and movement.

We provided a sophisticated low-cost, scalable solution that extracts data from existing legacy systems or low cost hardware/sensors.

Wireless devices are quick and easy to deploy, eliminating expensive cabling, downtime and infrastructure changes:

- count and monitor occupant movement
- monitor and control Co2
- monitor and control air flows.



Contact Precise Air's Building Performance Optimisation team on 1300 728 250 to find out how we can help you reduce the risk to your facility.

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