



**iaq+ monitoring system**  
The clearest picture of your  
indoor environment

**Connected** Efficiency

# Complete control of your environment

Experience high efficiency indoor air quality to improve quality care

## Stay in the Zone

The IAQ Monitoring System allows continuous control of indoor conditions, acquiring all the data needed to maintain ideal conditions, reducing virus transmission risks and enhancing patient safety and comfort.



CAREL's iaq+ monitoring system is CAREL's newest solution for management and continuous monitoring of the indoor air in the most demanding environments, guaranteeing high air efficiency and quality to reduce contagions and improve patient outcomes.

## Why must you monitor your air?

Indoor air quality (or IAQ) control is a key factor in improving occupant health and staff productivity. It involves collecting data on the various chemical, biological, physical and climatic factors to determine air quality. Providing proper control of the environment in a sustainable and energy-efficient way is a critical part of any solution in the day-to-day operations of any demanding facility. iaq+ provides clear and concise data on the key indoor air quality indicators: humidity rH%, temperature, CO<sub>2</sub> levels and VOC particle counts (volatile organic compounds).

## Humidity levels

When humidity levels are low, the environment begins to stress our body. Our thermoregulatory system requires more effort to maintain equilibrium.

This, in turn, creates a negative response in our body resulting in symptoms such as headaches, dry eyes and nose or throat irritation, ultimately impairing our barrier functions and weakening our resistance against illnesses.

## Temperature

Controlling correct temperatures is crucial for comfort of both patients and staff as well as providing energy savings benefits.

## CO<sub>2</sub> Levels

Monitoring CO<sub>2</sub> is essential for adequate fresh air in a space.

Prolonged exposure to higher levels can directly influence people's moods, reduce productivity and adversely impact the health of patients and staff.

## Volatile organic compounds (VOCs)

High relative humidity can allow VOCs to exist at higher concentration. VOCs are harmful to both health and the environment so proper monitoring and management is critical.



## Infection Prevention

Infections at lower humidity levels compromises mucous clearance and impairs the immune system. Viral inactivation rates increase sharply at relative humidity above 40%. Maintaining an ideal zone between 40-60% rH enhances a patient's immune system reaction.



## Sustainability

HVAC running costs account for 65% of total energy costs. Providing proper efficient, cost-effective air quality management and monitoring have strong impacts in reducing operating costs while favorably influencing patient outcomes.

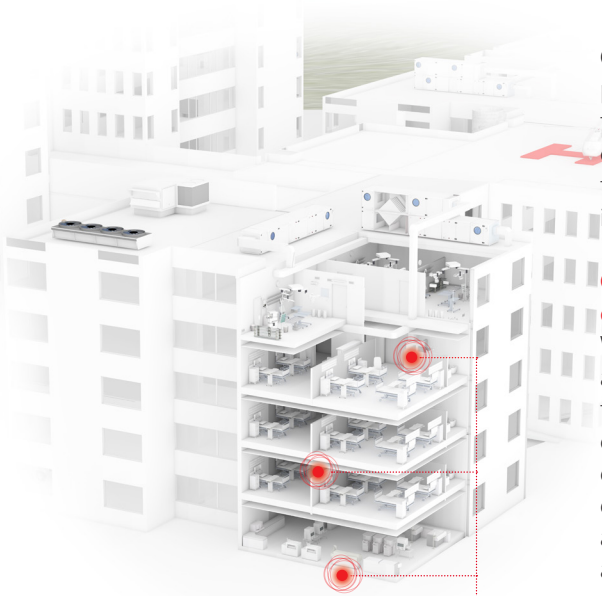


## Improve Indoor Conditions

90% of our time is spent indoors. Your building can make you sick or keep you well. Proper monitoring and management of indoor air is crucial to ensure good health, behavior and all-round well-being of patient and staff.

# Straightforward technology

Easy to use even in the most demanding environments



CAREL's **iaq+** monitoring system provides a simple and straightforward tool to manage your indoor conditions continuously, acquiring all data needed to maintain ideal conditions and remain in a healthy and beneficial zone.

## Continuous wireless monitoring of one or multiple areas

With **iaq+**, your monitoring can be as simple as managing one area up to more complex systems with thirty or more different locations through desktop or mobile devices. It provides quick and easy access to temperature and humidity charts, statistics, scorecard and live trends as well as status monitoring to optimize your routine maintenance schedules.

## Reliable control and maintenance

Temperature, humidity and air quality monitoring ensure the proper levels are maintained "in the zone" for an ideal setting that supports improved patient outcomes while at the same time providing energy efficiency.



## IOT remote data analysis

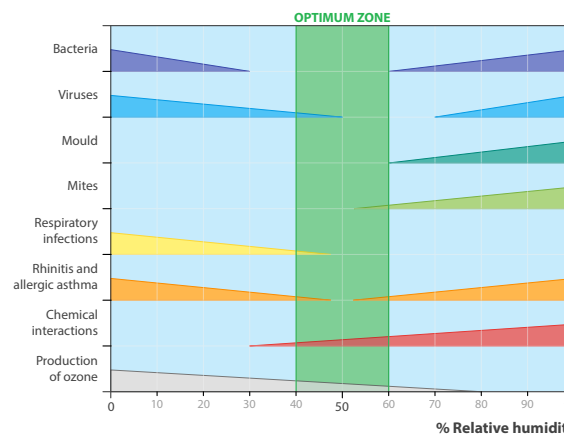
Analysis is available to centralize the activities and providing immediate access to all necessary information via desktop or mobile devices to effortlessly optimize your routine maintenance schedules. Facility managers can rely on an efficient system able to continuously monitor conditions, 24 hours a day, 7 days a week.

## Easy installation

Easy to set and change parameter ranges with sophisticated yet straightforward configurations for alarm notification via desktop or mobile devices as well as analysis tools are all features that make the **iaq+** a winning solution in terms of reliability, security of information and energy saving.

## Alarm notifications

Provides simple and fast access to all the information you need using the most advanced technology in a centralized remote management system.



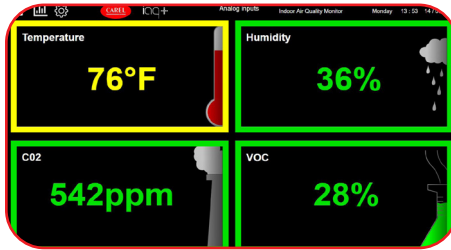
## Stay in the Zone

Maintaining a relative humidity in the healthy zone between 40 and 60% minimizes the impact of bacteria and respiratory infections to improve patient outcomes.



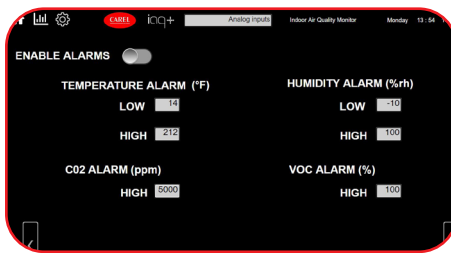
# Effortless system monitoring and optimization

The iaq+ provides complete a simple to use dashboard that simplifies the process from start to finish.



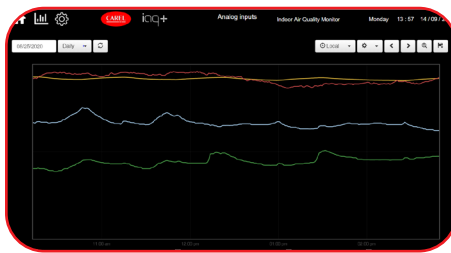
Continuous Monitoring

The iaq+ provides an easy and intuitive dashboards which allows the user to get a clear picture of current conditions at a glance with the ability to monitor up from one to as many as thirty or more different areas.



Alarm settings

Custom configurations allows users to create as simple or as complex parameter settings as needed to meet facility requirements, each individual setting specific to the area being monitored.



Data Analysis

Data analysis is also available remotely using an IOT platform, centralizing the activities and providing immediate access to all necessary information. Users are provided the tool to view graphing of trends and historical data as well as download and export daily, weekly or monthly logs.

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