

# HEALTHY AIR IS A REQUIREMENT NOT AN OPTION

A modern healthy building improves the confidence and productivity of the people who use it while also considering energy efficiency. The backbone of indoor air quality – ventilation, relative humidity, filtration and pressurization – is also the starting point for a healthier building. Every building has these functions, but they may not be optimized for building health.

#### **VENTILATION**

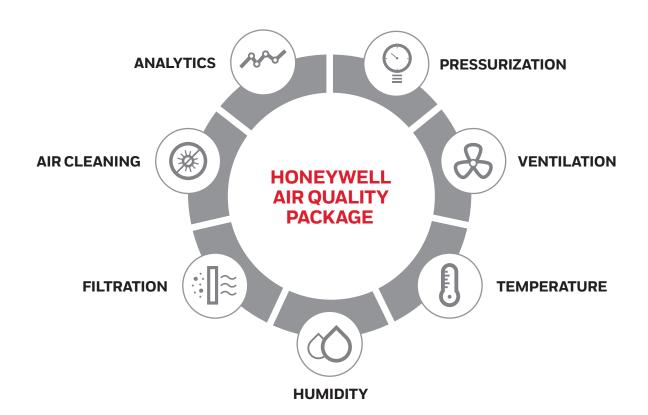
Bringing fresh air into your building not only helps to improve air quality but can also improve an individual's decision-making and cognitive function.<sup>2</sup> Building organizations also recommend adjusting ventilation as an effective way to combat pathogen transmission in buildings.<sup>3</sup>

#### **RELATIVE HUMIDITY**

Controlling relative humidity is not just about occupant comfort, it may also reduce the transmission of certain airborne infectious organisms. Studies show that keeping relative humidity in the 40-60% range can decrease occupant exposure to infectious particles and reduce virus transmission.<sup>4</sup>

#### **FILTRATION & AIR CLEANING**

Having the right filtration, particulate sensing and air cleaning systems in place can help reduce the pathogens, allergens and other indoor air pollutants in your building. Maintaining proper pressurization in critical spaces and restrooms can help it stay that way.



### MAKE BUILDING AIR QUALITY A KEY PERFORMANCE INDICATOR

Your building's air quality should be frequently checked and optimized to comply with industry regulations and guidelines, especially in times of change. Honeywell's building management products and services can help you improve your building's air quality to help create a healthier environment for occupants while still achieving your efficiency goals.



#### Ventilation

Proper air exchange can dispel odors, chemicals and  $CO_2$ , while balancing energy use and reducing <u>disease transmission</u>. Find out how our <u>actuators</u> and <u>economizers</u> can bring in the right amount of fresh air based on environmental conditions and meet building regulations.



#### **Temperature**

Maintaining proper temperatures in your building not only improves occupant comfort but can also potentially minimize the growth and spread of many pathogens. Find out how our <u>wall modules</u> and commercial thermostats can optimize temperatures in your buildings.



#### Humidity

High humidity levels can promote the growth of bacteria and mold and create an environment where dust mites can thrive. Lower humidity creates other concerns like dry, itchy skin, transmission of viruses and irritation of the upper respiratory system. <a href="Humidity sensors"><u>Humidity sensors</u></a> can help to manage and maintain optimal humidity levels for your building.



#### **Pressurization**

Adjust and maintain proper air flow and room pressurization to achieve efficient recirculation within a space and improve air exchange for a healthier environment. Learn how our <u>Venturi valves</u> provide proper pressurization in critical spaces, including restrooms.



#### Filtration

Controlling bacteria, pollen, pollutants and other contaminants can be done with proper filtration. Find out how our <u>electronic air cleaners</u> help remove and clean airborne particles before they circulate throughout your facility.



#### **Ultraviolet light**

<u>Ultraviolet (UVC) energy inactivates viral</u>, bacterial, and fungal organisms so they are less likely to replicate and potentially cause disease.



#### **Analytics**

Deploying tools that monitor your building management system 24/7 for indoor air quality and occupant behavior can help you quickly address issues. Find out more about our building set-up, management, analytics and security software management systems.

## CHECKLIST TO IMPROVE INDOOR AIR QUALITY

- Manage air flow
- Control temperature
- Balance humidity
- Control and change room pressurization
- Detect and remove contaminants
- Improve air filtration
- Help clean with UV light treatment
- Meet the latest guidelines







# Talk with one of our experts to arrange an executive briefing.

hwll.com/HBairquality

#### Sources

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  – Air Flow
- 2. Harvard Business Review, <u>Research: Stale</u>
  Office Air Is Making You Less Productive,
  21 March 2017
- 3. ASHRAE, <u>ASHRAE Position Document on</u>
  <u>Airborne Infectious Diseases</u>, 5 February 2020
- 4. Optimize Occupant Health, Building Energy Performance and Your Revenue Through Indoor-Air Hydration, Dr. Stephanie Taylor, M.D., M. Arch

#### For More Information

www.buildings.honeywell.com #HealthyBuildings

#### **Honeywell Building Technologies**

715 Peachtree St NE Atlanta, Georgia 30308 www.honeywell.com WHAT WE MAKE IT

