

BUILDING HEALTH OR SUSTAINABILITY CHOOSE BOTH

Dynamically optimize your building in real time to provide a healthier indoor environment – at the lowest energy use

Honeywell Intelligent Building Optimization

No matter the goals for your building – from cost savings, to employee well-being and retention, tenants and investors, or compliance and certification – Honeywell is uniquely positioned to support you with integrated software, hardware, and decades of results.

Honeywell

HONEYWELL INTELLIGENT BUILDING OPTIMIZATION

You know the well-being of the people in your building comes first. That's why pandemic guidance often called for costly shortcuts like non-stop ventilation. But for many organizations, this has posed a difficult tradeoff that undercuts budgets and sustainability efforts.

Yet you shouldn't have to choose between a building that's either healthy or sustainable. Achieve both – with a cost-effective service to dynamically optimize indoor air quality at the lowest energy use.

LET'S TURN CHALLENGES INTO RESULTS

Building owners and operators have seen how indoor air quality (IAQ) guidelines continue to evolve, often calling for energy-intensive safety measures such as “maximum allowable ventilation.”¹

Meanwhile, sustainable energy use is also increasingly prioritized as urgent by grassroots initiatives, national regulations, and global investors.

It may sound like a paradox. Yet collectively, it's critical that we make building health pragmatic – meaning both cost effective and energy efficient. And now we can.

BUILDING OPTIMIZATION MADE AFFORDABLE

Introducing Honeywell Intelligent Building Optimization: A cloud-based subscription that adjusts your HVAC system using real-time analytics to meet IAQ needs at the lowest energy use.

And in addition to being energy efficient, your building health should also be pragmatic: So there's no need for IT expertise, no maintenance, no capital expenses. Simply pay for the service via your operating budget.

BEYOND DEMAND CONTROLLED VENTILATION

Older forms of automation typically approximate IAQ based on carbon dioxide (CO₂) alone, using this data to decide when to ventilate. But CO₂ is a lagging indicator: Occupants can be exposed to IAQ risks before the high threshold is detected, while managing energy use.

Honeywell Intelligent Building Optimization precisely identifies when to ventilate and for how long, using all 5 IAQ parameters (CO₂, PM2.5, VOCs, temperature, and humidity) – so your building can optimize its air quality at the lowest energy use.



1 – “ANSI/ASHRAE Standard 62.1-2019: Ventilation for Acceptable Indoor Air Quality,” American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), 2019.

BUILDING HEALTH MADE ENERGY EFFICIENT

Choose one of three modes.
The system does the rest.

And no matter which mode you use, the system keeps IAQ levels above thresholds set by the RESET™ Air Standard for Commercial Interiors v2.0 – while leveraging the most cost-effective way to maintain the IAQ thresholds for that mode.

ASSESS

Prior to your subscription, we provide an assessment of your site.

Based on this, we consult with you on any areas of concern and the most cost-effective options to bring your building up to the necessary industry standards.

ACT

We remediate your building to reconfigure, upgrade, and integrate any building management, HVAC, and sensing capabilities you need.

We consult with you throughout deployment, and provide ongoing maintenance and sensor calibration as needed.

ANALYSIS

System monitors all 5 of the key IAQ parameters: CO₂, particulate matter (PM2.5), volatile organic compounds (VOCs), temperature, and humidity.

Dashboard provides clear visual analysis of site health and energy profile.

CHOOSE YOUR MODE

COMFORT: Highest IAQ level per RESET Air Standard, using intelligent energy optimization.

Ideal for: high-occupancy periods; sensitive populations or applications.

BALANCED: “High Performance” IAQ level with optimal energy savings.

Ideal for: standard daily occupancy.

ENERGY: Highest energy savings, while maintaining “Acceptable” IAQ level.

Ideal for: low-occupancy periods; off-season and holiday shutdowns.

AN ECOSYSTEM DESIGNED TO SUPPORT SUSTAINABILITY

Intelligent Building Optimization is part of the Honeywell Buildings Sustainability Manager, powered by Honeywell Forge.

This enables it to natively integrate with either of its companion services: Honeywell Air Quality Optimization, and Honeywell Carbon & Energy Management.

It performs at its peak accuracy and savings with access to the additional data and analytics from these services.

OPTIMIZATION

Using all 5 IAQ parameters, the system precisely determines when to start and stop HVAC operations.

The system is not confused by artificially high CO₂ from external sources, thus avoiding excess ventilation.

More precise operation improves equipment service life by reducing unnecessary use.

Let's make building health
pragmatic and sustainable

Honeywell Intelligent Building Optimization

hwl.co/SustainableBuildings

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