

# Belnor Engineering Introduces The Belnor IAQ Warden™, The World's Smartest HVAC Companion

*In these unprecedented times, the protection of human health is paramount, especially in healthcare. Indoor air quality solutions can help keep occupants safe.*

TORONTO, ONTARIO, CANADA, June 29, 2020 /EINPresswire.com/ -- In order to improve the health and well being of occupants inside facilities, Belnor Engineering has proudly launched the world's smartest HVAC companion, [the Belnor IAQ Warden™](#).



In these unprecedented times, the protection of human health is paramount. Indoor air quality (IAQ) is one of the most significant factors affecting human health, safety, wellness, and productivity. Monitoring it is important and having access to IAQ data is even more important.

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*President, Belnor Engineering*

With Belnor Engineering’s novel Belnor IAQ Warden™, facility occupants will be kept safe by providing real-time air quality monitoring based on high accuracy detection of dangerous gases, including the temperature and humidity of the sample.

Initially designed as an energy-saving concept for hospitals, laboratories, and university research centers with high air change rates per hour, the Belnor IAQ Warden™ can be customized to detect over 60 pollutants as well as particulates PM1, 2.5 and PM10 based on the facilities’

needs. The chemicals to be measured by the device are specified at the time of order based on each application.

Additionally, instead of letting your HVAC systems run constantly, the device helps to reduce energy costs by sending monitored information to the building's ventilation and control systems and accordingly optimizing air change rates.

According to the [WELL Building Standard](#), building performance, such as ventilation and infiltration rates, is highly variable and has a direct effect on indoor air quality. To maintain ideal performance metrics, projects must continuously gather data on building performance. Collecting this data allows individuals to be aware of and promptly fix any deviations in indoor quality metrics.

The Belnor IAQ Warden™ helps facility owners achieve the WELL Building Standard Certification by allowing users to monitor and effectively remediate indoor air quality issues and inform building managers and occupants of the quality of the indoor environment. Users can even download air quality and performance data, which is an added bonus to achieving WELL Certification.

The Belnor IAQ Warden™ also helps facility owners achieve the [LEED Building Standard](#) Certification by improving the energy efficiency of the facility's HVAC systems.

According to the LEED Building Standard, which also covers overall air quality control and assessment, tobacco smoke control, acoustics, low-emitting materials, construction air quality management, thermal comfort, lighting, and views, environmental quality and clean indoor air are essential living standards.

The Belnor IAQ Warden™ helps facility owners achieve the LEED Building Standard Certification by monitoring pollutants and allergens from the outdoors, minimizing indoor VOCs and air toxins, and creating access to fresh airflow. These strategies improve occupants' respiratory health and comfort as they go about their day.



INNOVATIVE CONTROLS & RENEWABLE ENERGY SOLUTIONS

Belnor Engineering, Toronto, Ontario, Canada

The graphic displays the Belnor IAQ Warden™ device in a grey rugged case. To its right is a list of product specifications, each accompanied by a red circular icon. Below the specifications is a photograph of a person in a lab coat and safety glasses using a pipette in a laboratory setting.

**Belnor Engineering Inc.**  
INNOVATIVE CONTROLS & RENEWABLE ENERGY SOLUTIONS

**BELNOR IAQ WARDEN™**  
PRODUCT SPECIFICATIONS

- Detected gases**  
H<sub>2</sub>S, SO<sub>2</sub>, CO, CO<sub>2</sub>, Cl<sub>2</sub>, C<sub>2</sub>H<sub>2</sub>, H<sub>2</sub>, HCL, HCN, NH<sub>3</sub>, O<sub>3</sub>, NO<sub>2</sub>, PH<sub>3</sub>, O<sub>2</sub>, CH<sub>4</sub>, NO, VOCs and more
- Communication**  
GPRS, Modbus, Bluetooth & WiFi available
- Cost Conscious Design**  
Low cost, easy maintenance and calibration, promotes energy efficiency with HVAC
- Suits Any Facility Size**  
Scalable network of Belnor IAQ Warden™ units possible based off of facility size
- Data Storage**  
Data can be stored locally using a built-in SD Card
- Quiet Functionality**  
Belnor IAQ Warden™ was designed with indoor environments in mind
- Your Safety in Mind**  
Features an option to trigger a notification when indoor air quality reaches dangerous levels
- HVAC Compatibility**  
Belnor IAQ Warden™ is compatible with BACnet systems, Modbus, and current & voltage output

**Customized To Suit Your Environment**

Based on your facilities' needs, Belnor IAQ Warden™ can be customized to detect over 60 pollutants as well as particulates PM1, 2.5 and PM10. The chemicals to be measured by the device are specified at the time of ordering based on each application. Users can even download A/C and performance data. Suitable for any job, and with over 60 different sensors to choose from, the Belnor IAQ Warden™ is perfect for any facility.

A technical overview of the Belnor IAQ Warden™

Users can also detect various organic and inorganic compounds and download data, focusing on priority VOCs for indoor spaces, which is an added bonus for indoor air quality testing requirements for achieving LEED Certification.

Suitable for any job, and with over 60 different sensors to choose from, the Belnor IAQ Warden™ is perfect for any facility.

For more information, contact Belnor Engineering.

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