

# Energy Efficient Indoor Air Quality Improvement Is Critical to Healthcare Facilities

## The Challenge

In a post COVID-19 environment, healthcare and assisted living facilities will need to demonstrate that the indoor air quality (IAQ) of their facilities provides a healthy, safe, and hygienic environment for patients, residents, staff, and visitors. Without assurances that healthcare facilities are safe, customers will continue to postpone profitable elective procedures.

## The Solution

This innovative, energy efficient, and cost-effective platform MEASURES, MONITORS, and CONTROLS the indoor air quality for healthcare and assisted living facilities. Utilizing a combination of bipolar ionization technology, IOT smart sensors, cutting edge digital hand sanitizers, and a robust analytics and reporting application, we are able to dramatically improve your facility's IAQ and communicate the results to patients, residents, staff, and visitors.

## The Result

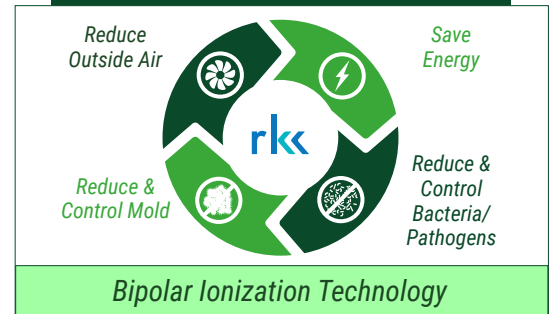
By implementing this solution in all areas of your facility your institution will be able to provide & document a healthy, safe, and hygienic indoor environment. Some of the benefits realized include:

- Reduces the risk of healthcare-associated infections (HAIs)
- Reduces the spread of airborne infectious particles including SARS-CoV-2
- Reduces the risk of mold growth through your facility
- Improves patient confidence that the facility is safe enough to schedule elective procedures

| Bipolar Ionization Feature   | Benefit   |
|--|---|
| <b>AGGLOMERATION</b><br><small>DUE TO +/- ION CHARGE, PARTICLES STICK TOGETHER</small>             | <ul style="list-style-type: none"> <li>- REDUCES the amount of time particles are suspended in the breathing zone</li> <li>- IMPROVES filter capture rate of airborne particles</li> <li>- IMPROVES the effectiveness of manual surface cleaning</li> </ul> |
| <b>OXIDATION</b><br><small>DUE TO +/- ION CHARGE, VOC'S ARE DESTROYED</small>                      | <ul style="list-style-type: none"> <li>- REDUCES the amount of VOC's present</li> <li>- NEUTRALIZES objectionable odors</li> <li>- IMPROVES the safety of a facility's indoor air quality</li> </ul>  |
| <b>NEUTRALIZATION</b><br><small>DUE TO +/- ION CHARGE, HYDROXYLS RENDER PATHOGENS INACTIVE</small> | <ul style="list-style-type: none"> <li>- REDUCES and deactivates harmful viruses*</li> <li>- REDUCES and deactivates harmful bacteria*</li> <li>- IMPROVES the safety of a facility's indoor air quality</li> </ul>   |

\*Test results showing: kill rate, time period, and independent testing agency information can be furnished upon request.

## The Complete IAQ Package



### Bipolar Ionization Technology

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### IOT Smart Sensor for IAQ Monitoring

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### Digital Hand Sanitizer w/IAQ Score Display

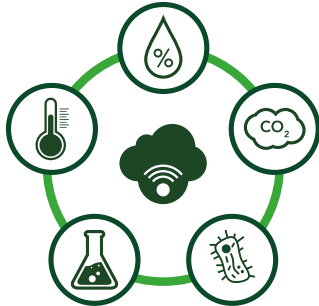
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### Dashboard / Analytics Reporting Application

## IAQ Measure, Monitor, and Control Architecture

### IOT Smart Sensor for IAQ Monitoring



- TEMPERATURE
- HUMIDITY
- VOC's
- PARTICULATE MATTER
- CO<sub>2</sub>



*Digital Hand Sanitizer with IAQ Monitoring*



*Dashboard / Analytics Reporting Application*