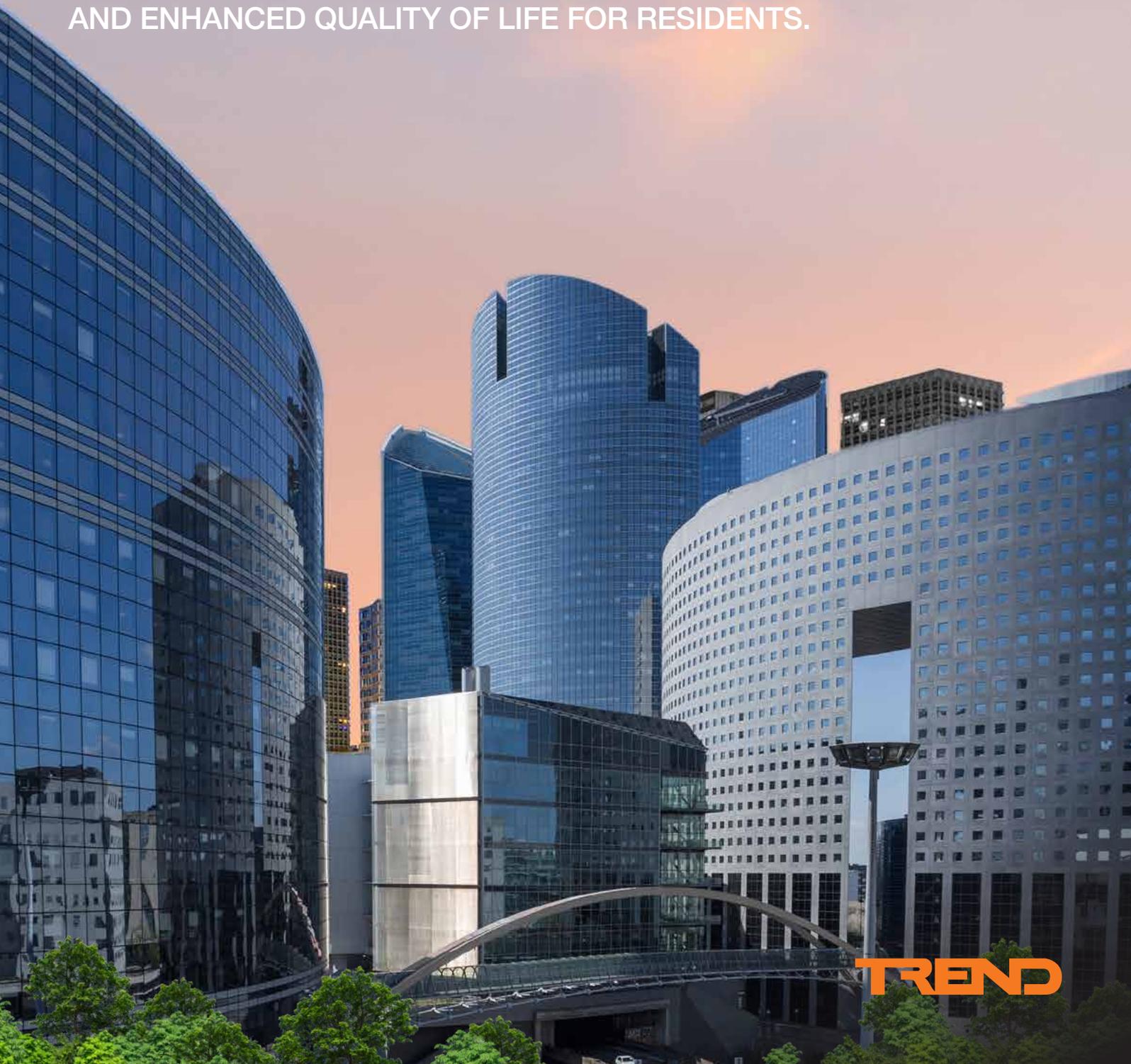


# LONG TERM QUALITY CARE WITH HEALTHY ENVIRONMENT

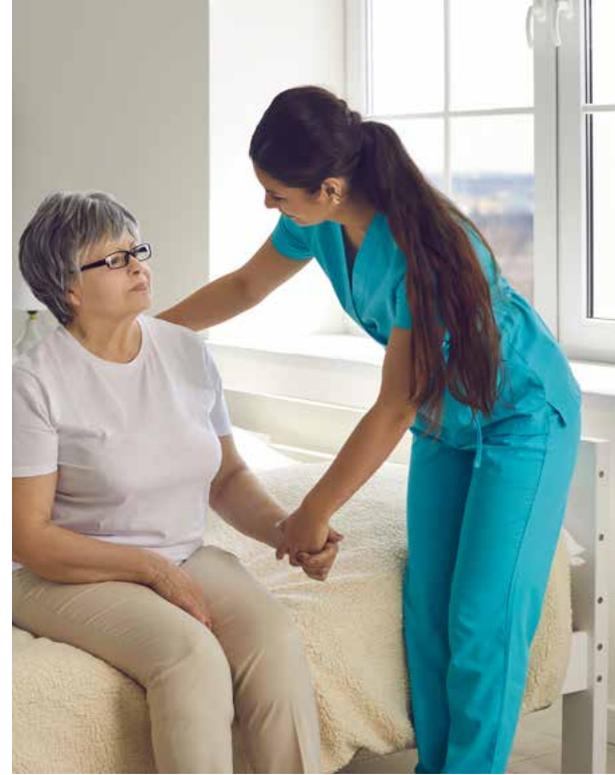
BUILDING MANAGEMENT SOLUTIONS CAN  
CONTRIBUTE TO BETTER LIVING CONDITIONS  
AND ENHANCED QUALITY OF LIFE FOR RESIDENTS.



**TREND**

# PROTECT OUR MOST VULNERABLE

Long-term care residents are especially vulnerable to infections due to closed environments and compromised immune defenses. Each resident can face up to a 10% risk per year of acquiring infections<sup>1</sup> spread in acute-care settings through airborne and contact pathways<sup>2</sup>. What should you do to ensure a better environment for residents and maintain cost efficiency you can invest in air quality, monitoring and control.



## CONTROLLING HVAC



Air pollution has a significant impact on older adults with more susceptible immune systems. Controlling the temperatures in a long-term care facility is also a concern as the elderly can suffer from health complications driven by variance in internal body temperature.

## CONTROLLING AIR QUALITY



Mechanically ventilated buildings naturally concentrate more pathogens than the outdoor environment, and the general advice to help prevent the spread of infectious disease is to supply as much outside air as possible and maintain stable directional pressure.

## CONTROLLING ACCESS

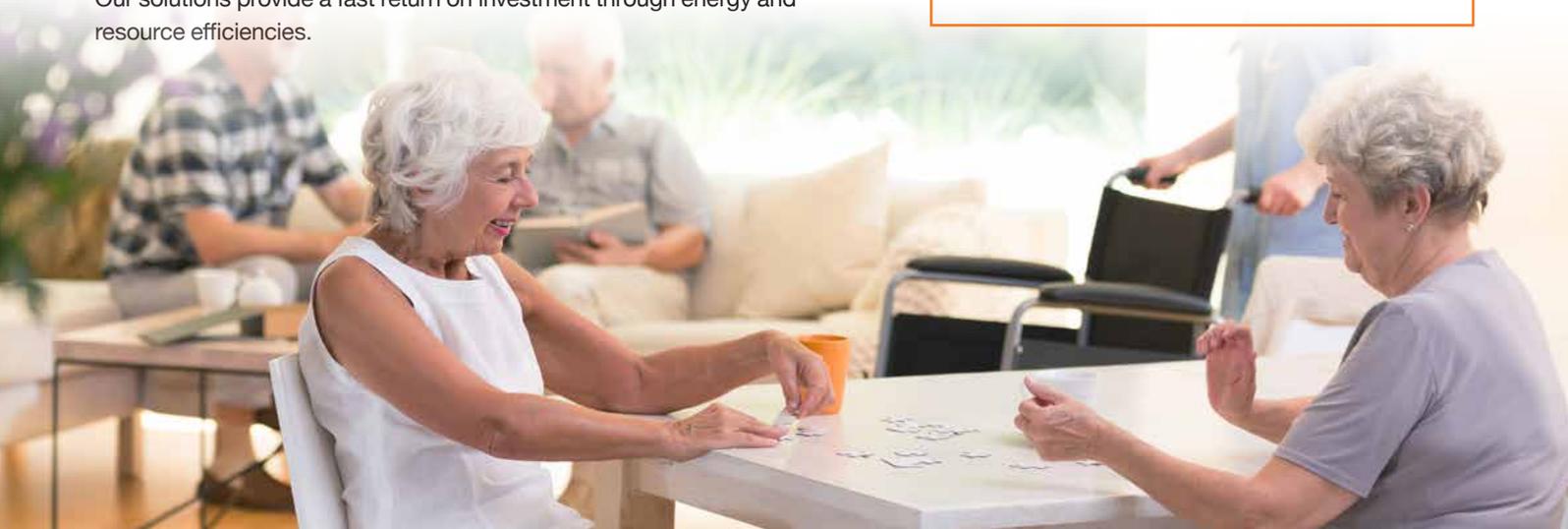


If there is an infectious outbreak, how do you keep your residents isolated from the general population for their safety? How can you manage contact to know which of your residents or staff may be carriers of the disease, or at more risk for becoming infected?

Trend are a global Building Energy Management Systems (BEMS) company, and the best investment for life-long building performance. Our solutions provide a fast return on investment through energy and resource efficiencies.

<sup>1</sup> Ernst & Ernst, 1999

<sup>2</sup> Ulrich, Zimring, Joseph, Quan, & Choudhary, 2004



# ENHANCING RESIDENTIAL CARE THROUGH ADVANCED BUILDING MANAGEMENT SYSTEMS

TREND building solutions for healthcare help bring your facility to peak shape, making sure that all HVAC systems are operating efficiently and every piece of equipment is optimized.



## CLEAN ENVIRONMENT CAN CONTRIBUTE TO:

- Improving the residents experience
- Increasing staff productivity
- Lowering resident healthcare costs
- Reducing cross-contamination
- Maintaining consistent comfort levels
- Increasing staff retention



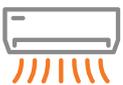
### HUMIDITY

High humidity levels 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 the irritation of the upper respiratory system. We can help you maintain optimal humidity between 40% - 60% to reduce the transmission of germs.



### PRESSURIZATION

Maintaining stable negative room pressurization ensures efficient re-circulation within a space and improves air exchange for a healthier environment. It also prevents the spread of infectious pathogens suspended in the air from drifting into neighboring spaces and infecting others reducing the spread of infectious disease from room to room.



### FRESH AIR

Ensuring the quality of indoor air and the amount of fresh air needed for your facility is key to a healthy environment. Controlling the indoor sources of odors, chemicals, and carbon dioxide ensure the optimal resident experience. In bathrooms and other areas with high contamination potential, increasing the frequency of air exchange may reduce the risk of airborne transmission of infectious disease.



### THERMAL COMFORT

Respond to comfort issues before you receive complaints, using advanced mobile data and alerts wherever you are.



### 24/7 BUILDING MONITORING

Set up your building's management dashboard to monitor key variables, with alerts when optimal conditions are not being met.



### ADVANCED FILTRATION

Filtration From controlling bacteria to pollen, to pollutants, it is essential for more clean building environment to maintain its filtration system.



### SAFETY AND SECURITY

Single site or enterprise access control, intrusion detection, video surveillance, building automation, contact tracing or a combination.



“ The elderly can have weakened immune systems and age-related health problems, which make them more vulnerable to health complications associated with indoor air pollution...That makes enhanced indoor air quality a critical contributor to their health and wellness at long-term living facilities. ”

**GAIL VITTORI**  
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**TREND**