



## Make air your ally.

Good indoor air quality is essential to human well-being. It's a deciding factor in whether people perceive your building favorably. Today we have more ways than ever to manage and monitor IAQ effectively, and holistically, while keeping goals for cost and energy efficiency in sight. Trane offers proven solutions and innovative technologies to bring buildings into alignment with air quality guidelines set by the Centers for Disease Control, and can help you reach your third-party accreditation goals.

### Trane's Wellphere™

Our multi-disciplinary approach orchestrates air quality, acoustics, thermal comfort and lighting to create the indoor environmental quality (IEQ) that's optimal for each building and its purpose... putting people first.

## Three Steps to Indoor Air Quality

**Assess.** Before we can make an effective, targeted plan to improve your building's air, we need to understand the current state. The logical starting point is an Indoor Air Quality Assessment.

**Mitigate.** The assessment will lead to a customized plan that's based on four pillars for improving indoor air: **Dilute, Exhaust, Contain and Clean.** We'll apply tested and proven technologies to achieve the air quality level that's appropriate for your building.

**Manage.** Monitor and manage proper air quality over the long term through your building control system and proper maintenance. Visualization tools help you share results with stakeholders.

## Clean air technologies.



## Air and Surface Cleaning Technologies

Trane offers IAQ technologies are rooted in science. Results are achieved when we apply our HVAC systems expertise.

The following technologies clear the air by trapping and destroying certain viruses and particles.



**Dry Hydrogen Peroxide:** Reduces microbial threats (bacteria, mold, certain viruses) by oxidizing their cell membranes and disrupting the chemical structures. Technology solutions produce DHP from humidity and oxygen in the air within acceptable safety thresholds for continuous use in occupied spaces.



**Photocatalytic Oxidation (PCO):** Trane Catalytic Air Cleaning System (TCACS™) combines three technologies working together; MERV 13 filters capture larger particles, Photocatalytic Oxidation (PCO) helps eliminate small biologicals, and UVGI prevents microorganisms from reproducing.



**Ultraviolet Germicidal Irradiation (UVGI):** Uses short wavelength ultraviolet light (UV-C) to inactivate microorganisms by destroying nucleic acids, altering the structure of the RNA.



**Filtration:** MERV 13+ and HEPA filters trap particles and some airborne pathogens more effectively compared to lower-rated products.

*Comparative efficacy data gained through independent testing, conducted by LMS Technologies, Inc., gives us the science-based facts we need to objectively recommend the best options for your building.*

### Focus on the long term to maintain peace of mind

Managing and maintaining your IAQ gains requires constant attention. Some air quality data can be gathered through stand-alone HVAC system sensors and devices. When you need to know more, our easy to install, monitoring solutions seamlessly integrate with your building automation system to put real-time air quality information at your fingertips—and in front of stakeholders. Sharing data on temperature, humidity, CO<sub>2</sub>, certain VOCs, particulate matter, light and noise gives occupants greater confidence in the environment that surrounds them.

**Reach out to your Account Manager today to find out how Trane's Wellsphere™ can help your building and your bottom line.**



Trane – by Trane Technologies (NYSE: TT), a global climate innovator – creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit [trane.com](http://trane.com) or [tranetechnologies.com](http://tranetechnologies.com).

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