

# Trane® Indoor Air Quality Assessment Services



Improving your indoor air quality can feel daunting. It is hard to know where to begin to understand the conditions in your space, and how to identify the right strategy to make an impact. Trane offers options for baselining your indoor air quality conditions and provides expertise through fact-based, tested IAQ recommendations.

You can feel confident implementing solutions that meet both the latest recommendations and guidance for IAQ and your unique goals for your building.

# What's in Your Air?

## TRANE ASSESSES 5 INDOOR AIR QUALITY MEASURES THAT MATTER

*Indoor air quality impacts our wellbeing.* Trane has over 100 years of experience making spaces that are more comfortable and desirable for occupants. With Trane's IAQ Assessment Services, this notion is taken a step further through a data-driven assessment of specific measures that impact wellbeing, comfort, and productivity.



Temperature



Humidity



Particulate Matter



Carbon Dioxide



Volatile Organic Compounds

Abbreviation	°F / °C	rH	PM	CO <sub>2</sub>	VOCs
<b>What it is:</b>	How warm or cold the room is	The moisture in the air; feeling dry or clammy	Dust, soot, smoke, and other fine debris in the air	The byproduct of many people breathing in a room	Odors and byproducts from cleaning products or other toxic airborne chemicals
<b>How it impacts occupants and buildings:</b>	Temperature has an impact on comfort, productivity, and human health. <sup>1</sup>	Humidity has an impact on comfort, and can contribute to the growth of mold, certain viruses, and bacteria. <sup>2</sup>	Particulate matter can trigger respiratory problems like asthma or allergies. <sup>3</sup>	Too much carbon dioxide can impact cognitive performance and decision making. <sup>4</sup>	Exposure to VOCs can lead to respiratory and skin irritation, and odors can make a space unpleasant. <sup>5</sup>

Trane's IAQ Assessment Services provide an action plan that focuses on the four key pillars of indoor air quality:



**Dilute** - making sure plenty of fresh outdoor air dilutes the buildup of indoor contaminants through proper ventilation.



**Exhaust** - getting exhaust air out equally important, especially air from kitchens, restrooms, and combustion systems.



**Contain** - keeping indoor humidity levels within the recommended range maximizes occupant comfort and reduces the risk of moisture-related problems



**Clean** - reducing particles, odors, or micro-organisms, such as mold, bacteria and viruses.

Trane's recommendations align with EPA, ASHRAE®, and CDC guidance, and can be tailored to help achieve recognition through certification and accreditation programs for healthy spaces.

<sup>1</sup> Seppanen, O., Fisk, W., & Faulkner, D. (2004). Control of temperature for health and productivity in offices. Lawrence Berkeley National Laboratory.

<sup>2</sup> <https://anithc.org/wp-content/uploads/2021/07/Viruses-and-Humidity-ANTHC-2.pdf>

<sup>3</sup> <https://ww2.arb.ca.gov/resources/inhalable-particulate-matter-and-health> and <https://www.epa.gov/pm-pollution/health-and-environmental-effects-particulate-matter-pm>

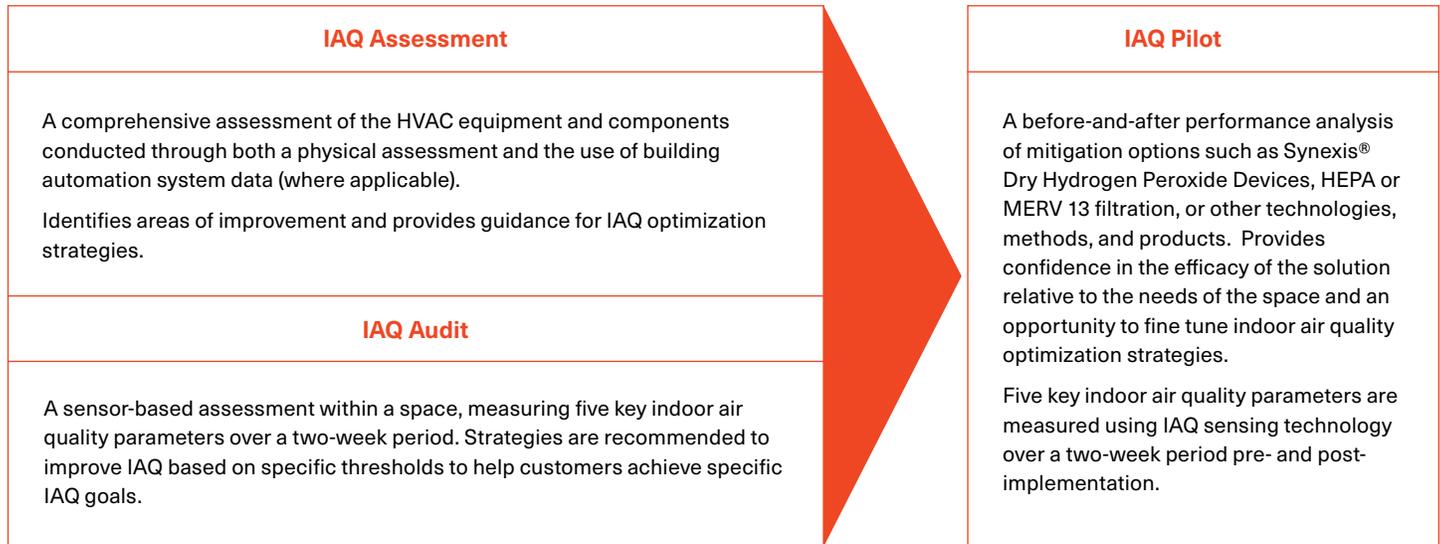
<sup>4</sup> <https://www.abe.iastate.edu/extension-and-outreach/indoor-air-quality-carbon-monoxide-and-carbon-dioxide-aen-125/#:~:text=In%20conclusion%2C%20high%20levels%20of,in%20a%20poorly%20ventilated%20space>

<sup>5</sup> <https://www.epa.gov/indoor-air-quality-iaq/volatile-organic-compounds-impact-indoor-air-quality>

# Indoor Air Quality Assessment Services Offerings

Because each building is unique, there is no one-size-fits-all approach to indoor air quality. Trane offers a suite of service offerings that can be used together or independently to assess your space.

Depending on your building goals, your Trane Account Manager or Service Manager can help you determine the most appropriate offering, or combination of offerings, to provide the optimal data to inform decision-making.



Trane's IAQ Assessment Services support the U.S. Environmental Protection Agency's Clean Air in Buildings Challenge, specifically helping customers to create a Clean Air Action Plan for their building.

**Let Trane help you create a Clean Air Action Plan for your building.**

## Confidently Move Forward



### With Expert Partnership

Let Trane do the heavy lifting, and the testing, to offer solutions that make an impact



### With Data-Driven Recommendations

Take the guesswork out of improving IAQ



### With Results You can See

Avoid costly experimentation by implementing solutions that work

# How it works

- 1 Connect with a Trane Account manager
- 2 Define and discuss the goals for your space
- 3 Agree on the right assessment services to evaluate your goals
- 4 Assess and optimize your IAQ



## Assess. Mitigate. Manage.

*Trane is here to support your journey to enable healthier, more comfortable environments for occupants.*

Access Trane's suite of connected solutions to help you take your IAQ strategy to the next level. Optimize and manage your IAQ with controls, building management systems, air quality sensing technology, and IAQ dashboard functionality.

Contact your Trane Account Manager to learn more about assessing your space.

[trane.com](https://trane.com)



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](https://trane.com) or [tranetechnologies.com](https://tranetechnologies.com).

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