

# Trane: Your Healthcare Solution for Comfort & Reporting



From rural health clinics serving close-knit communities to expansive hospitals in urban settings, the HVAC system that a healthcare facility chooses will have an impact on everything from patient comfort to healthcare compliance. Trane's healthcare portfolio and consultative approach aim to address various aspects of both, including HVAC automation and air quality regulations to help create comfortable indoor environments that help strive to meet applicable laws, regulations, and industry standards.

## **HVAC (Heating, Ventilation, and Air Conditioning) systems can play an important role in helping healthcare facilities to help support compliance for several reasons:**

- **Indoor Air Quality:** Proper HVAC systems can help to maintain air quality, minimize the spread of certain airborne pathogens and contaminants, and assist in controlling temperature, humidity, and air filtration.
- **Regulatory requirements:** Healthcare facilities comply with various regulatory standards and guidelines, such as those from the Centers for Disease Control and Prevention (CDC), the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE®), US Food and Drug Administrations (FDA), and The Joint Commission. The proper HVAC system helps to comply with these standards by helping to promote proper air ventilation, filtration, and temperature control.
- **Operating and Sterile Rooms and Departments:** Some areas of healthcare facilities, such as operating rooms and sterile processing departments, require temperature, humidity, and pressure control to create and maintain sterile conditions. HVAC systems are important in helping to achieve and helping to maintain the environmental conditions for these critical areas.
- **Building System Operation and Maintenance:** Regular maintenance and inspection of HVAC systems, adherence to guidelines for air quality, ventilation, temperature, and humidity control, and prompt addressing of any issues or repairs are important. HVAC systems help to support regulatory adherence and overall operational effectiveness in healthcare facilities.
- **Intelligent Services:** Track and benchmark energy consumption and costs with unmatched expert analysis to deliver measurable results. Intelligent services also provide continuous identification, and resolution, of unsafe, uncomfortable and unhealthy areas, which lead to higher patient satisfaction.

## Simplify with Technology

Using technology in healthcare facilities help to reduce reporting complexity and allows skilled technicians to focus on other important tasks

## Critical Space Dashboard

- 1 Overview of conditions in ORs and critical spaces. Each suite has its own tile where statuses of monitored information can be seen. A green light indicates that things are within the acceptable range while a red light indicates that something is outside of the acceptable range.
- 2 Monitored metrics include: space temperature, relative humidity, total air changes, space pressure, occupancy, and whether a space is in standby or not.
- 3 Clicking a tile directs you to specific information. Under each metric acceptable ranges are displayed. By clicking on the data logs button trend data about that metric will be displayed.

The dashboard provides a comprehensive overview of OR conditions. The top section shows a grid of 16 OR suite tiles (OR-01 to OR-16), each displaying key metrics like Space Temperature, Relative Humidity, Total Air Changes, and Space Pressure. A red box highlights OR-14, which is then expanded in the middle section to show detailed metrics for Operating Room 01: Space Temperature (64.0 °F), Relative Humidity (57.0%), Total Air Changes (19.3), Space Pressure (0.021 in(H<sub>2</sub>O)), and Outdoor Air Changes (0.0). The bottom section shows an Energy Usage Loss Inventory chart with a line graph of energy usage over time from 2014 to 2022.

**\*Disclaimer: Actual dashboard visuals may vary**

## Compliance Reporting

Effective reporting is essential for demonstrating and documenting compliance. Trane offers advanced tools designed to meet the intricate reporting requirements set by regulatory bodies. Our system enables automated, scheduled reports that can be saved locally and emailed directly to key stakeholders and compliance organizations, ensuring seamless and timely communication.

Based on available information, automated Compliance Reports can be generated.

Room	Sample Date/Time	Space Temp (°F)	Humidity (%)	Room Pressure (Inch)	Total Air Changes per Hour	Occupancy
OR-1 - 2H155	11/5/2020 9:00:00 AM	63.3	53.5	0.0229	22.1	Occupied
	11/5/2020 3:00:00 PM	67.2	46.3	0.0218	21.9	Occupied
	11/6/2020 9:00:00 AM	70.9	51.5	0.0405	22.2	Occupied
	11/6/2020 3:00:00 PM	68.2	45.4	0.0229	22.1	Occupied
	11/7/2020 9:00:00 AM	69.6	46.7	0.0222	22	Occupied
11/7/2020 3:00:00 PM	68.9	50.7	0.1227	10.3	Occ Standby	

Sample Date	Space Temp (°F)	Relative Humidity (%)	Room Pressure (Inch)	Total Air Changes per Hour	Occupancy
20200312 12:00 AM	64.5	47.1	0.021	21.9	Occupied
20200312 4:00 AM	65.5	46.8	0.021	21.9	Occupied
20200312 8:00 AM	65.5	46.8	0.021	21.9	Occupied
20200312 12:00 PM	65.5	46.8	0.021	21.9	Occupied
20200312 4:00 PM	65.5	46.8	0.021	21.9	Occupied
20200312 8:00 PM	65.5	46.8	0.021	21.9	Occupied
20200312 12:00 AM	65.5	46.8	0.021	21.9	Occupied
20200312 4:00 AM	65.5	46.8	0.021	21.9	Occupied
20200312 8:00 AM	65.5	46.8	0.021	21.9	Occupied
20200312 12:00 PM	65.5	46.8	0.021	21.9	Occupied
20200312 4:00 PM	65.5	46.8	0.021	21.9	Occupied
20200312 8:00 PM	65.5	46.8	0.021	21.9	Occupied

Room	Sample Date/Time	Temperature (°F)	Humidity (%)
OR-1	4/16/2022 8:00:00 PM	68.7	43.6
	4/17/2022 12:00:00 AM	69.2	36.7
	4/17/2022 4:00:00 AM	68.6	43.5
	4/17/2022 8:00:00 AM	66.7	43.8
	4/17/2022 12:00:00 PM	66.8	43.7



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