PERFORMANCE REPORTING OPTIMIZATION

Critical Environments
Reporting as a Service

usa.siemens.com/smarthealthcare

To help patients heal faster, provide better care, and increase efficiencies – all while reducing costs and providing a safe, secure healing environment – you must understand how your critical environments are operating at any given time. With this information, you can calibrate spaces appropriately to help ensure optimal performance and comfort for your critical spaces such as operating rooms, pharmacies, laboratories or isolation rooms.
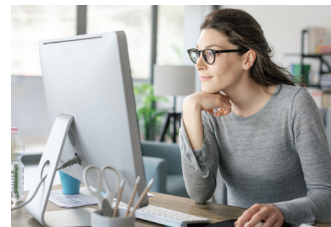
How does this add value?

Performance reporting to help you optimize your critical environments in addition to:
• Supports compliance efforts
• Helps ensure comfortable environments for hospital staff, providers, and patients
• Uses your budget wisely

Three packages are available to choose from, based on the visibility and frequency you need.

How does it work?

We start by designating the critical environments you need reporting for and establishing the key performance indicators (KPIs) most important to your organization. It's part of our outcome-based service approach, which gives you a measurable, step-by-step process for aligning with organizational outcomes and complete visibility into your systems and services.

Packages to meet your needs

Base
Monthly/weekly reports with monthly/weekly trends and KPI summaries

Performance
Daily detailed reports with performance charts, room environmental requirements, and KPI summaries

Advanced
Daily detailed reports with performance charts and KPIs; additional monthly or weekly KPI summary reports

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From there, we leverage your Building Automation System (BAS) data for those critical spaces to generate the Critical Environments Reports. These spaces are measured against your KPIs so you know when spaces are in compliance or whether you must make adjustments.

This customized approach brings together a comprehensive team of building experts, the latest analytical tools, and a complete, end-to-end delivery structure focused on your goals.
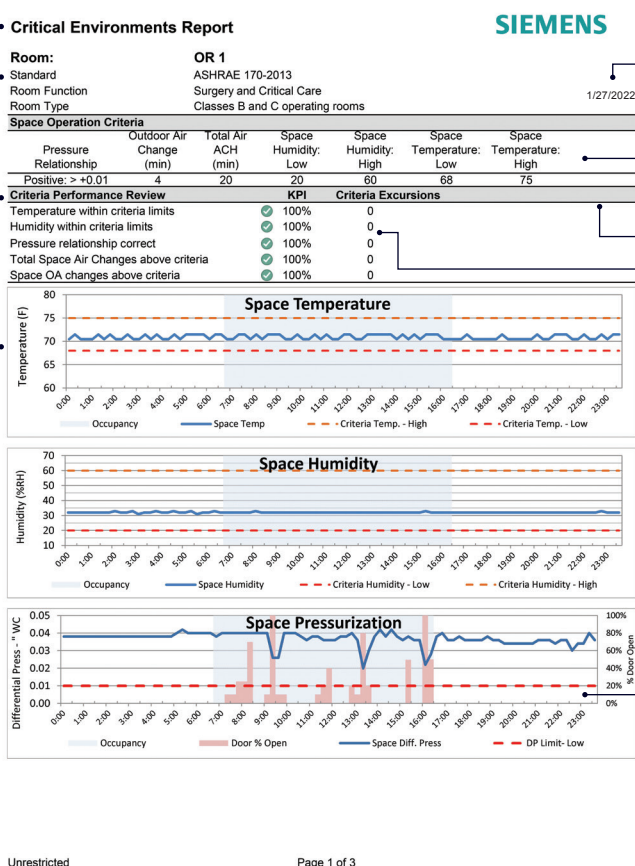
Sample Report

Room name

Room reference standard

Compliance KPI

Trend chart
• Trend value
• Hi limit
• Low limit
• Setpoint
• Occupancy

Outcome-based Reporting

Critical Environments Report

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Room:	OR 1
Standard	ASHRAE 170-2013
Room Function	Surgery and Critical Care
Room Type	Classes B and C operating rooms

1/27/2022

Space Operation Criteria

Pressure Relationship	Outdoor Air Change (min)	Total Air ACH (min)	Space Humidity: Low	Space Humidity: High	Space Temperature: Low	Space Temperature: High
Positive: > +0.01	4	20	20	60	68	75

Criteria Performance Review	KPI	Criteria Excursions
Temperature within criteria limits	✓ 100%	0
Humidity within criteria limits	✓ 100%	0
Pressure relationship correct	✓ 100%	0
Total Space Air Changes above criteria	✓ 100%	0
Space OA changes above criteria	✓ 100%	0

Space Temperature chart

Space Humidity chart

Space Pressurization chart

Unrestricted   Page 1 of 3

Space Air Changes chart

Space Temperature chart

Report data range

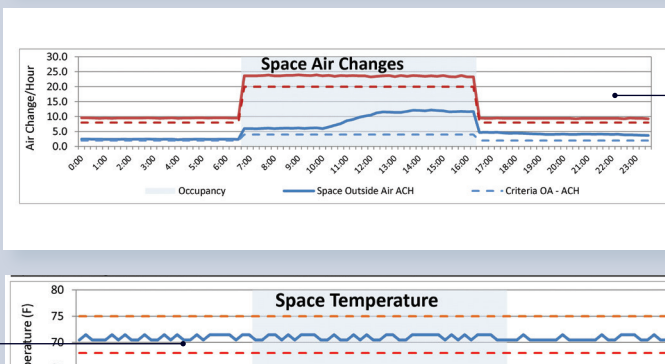Room operation criteria limits

Alerts for missing trend data

Count of out of limit for report

Space pressure chart
• Trend value
• Hi limit
• Low limit
• Setpoint
• Occupancy
• Door Status

Space air changes / hour chart

KPI Elements on the Report

- # of Rooms in Criteria
- % of Time Operating Rooms to Setpoint
- % of Time Operating Rooms in Compliance
- % of Time Satisfactory Control for Operating
- % of Operating Rooms Uptime to Compliance
- Trend %
- % of Change over time

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