



Mendygo

-AI That Adapts

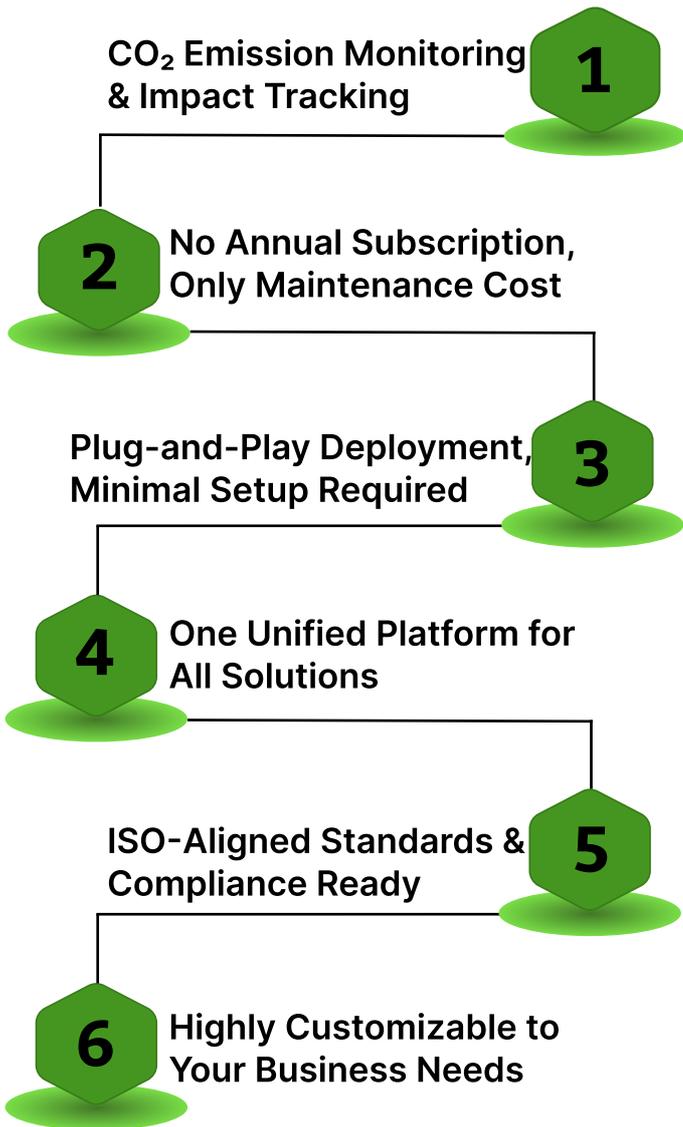
HVAC Monitoring System

Hardware that senses. AI that predicts. Traditional climate control is static and inefficient. Mendygo's ecosystem moves beyond fixed schedules to Adaptive Climate Intelligence. By creating a thermal "Digital Twin" of your facility, our system analyzes real-time occupancy, air quality, and external weather to optimize Chillers, AHUs, and FCUs. We don't just manage temperature; we predict equipment failures and eliminate energy wastage before it impacts your bottom line.

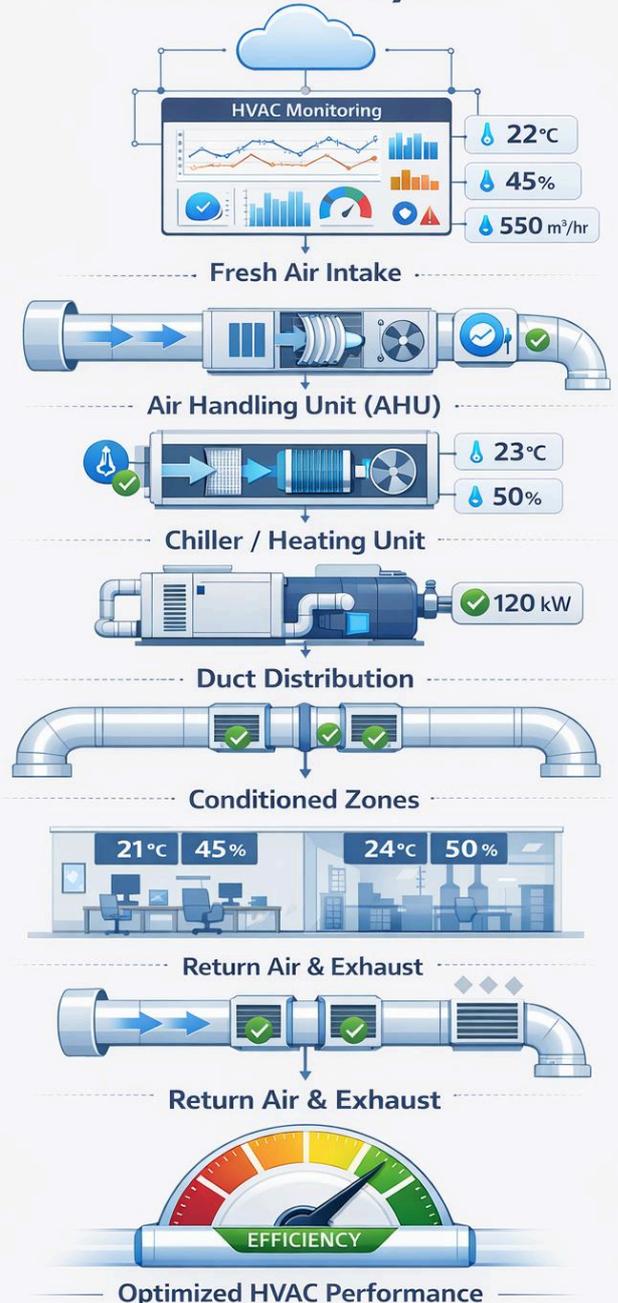
HVAC Monitoring System

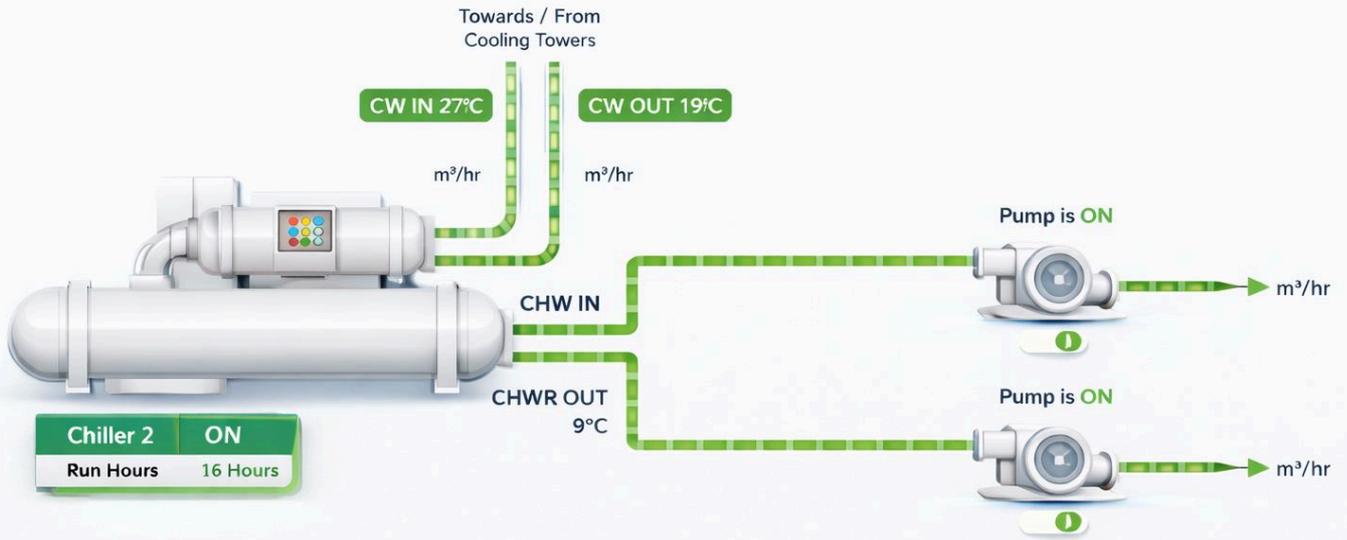
We don't just regulate temperature; we optimize thermal performance. Mendygo's ecosystem creates a "Digital Twin" of your facility's air and cooling network, predicting equipment failures and eliminating energy wastage before it occurs.

Value-added capabilities



Smart HVAC System





Condenser	
Condenser Water In Temp -	27°C
Condenser Water Out Temp -	19°C
Evaporator Pressure -	5 BAR
Condenser Refrig Temp -	42°C

Evaporator	
CHW In Temp -	14°C
CHWR Out Temp -	9°C
Evaporator Pressure -	6 BAR
CHW Flow Rate -	260 m³/hr
Delta T -	5.0

Electrical	
Active Power -	180 KW
Apparent Power -	195 KVA
Reactive Power -	82 KVAR
Power Factor -	0.92
Avg Current -	285 A
Avg Voltage -	415 W



24/7 Technical Support

Mendygo provides dedicated engineering support for model training, data integration, and system troubleshooting.

Custom Dashboarding

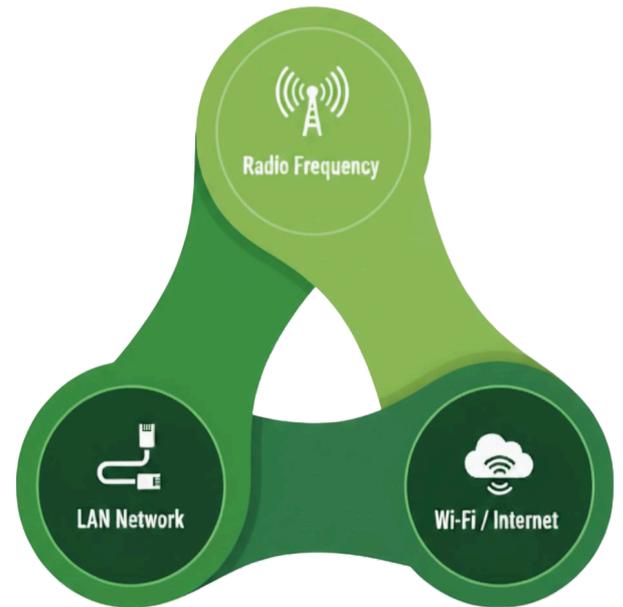
We build role-specific visualization layers—from CXO-level sustainability summaries to granular operator-level alerts.

On-Site Deployment

Our field engineers manage the entire digitization lifecycle. From non-disruptive sensor installation to gateway configuration.

Flexible Connectivity

An integrated connectivity system that combines Radio Frequency, LAN Network, and Wi-Fi/Internet technologies to ensure seamless and reliable data communication. This unified approach enables efficient wireless transmission, secure local networking, and cloud-based access, making the solution scalable and well-suited for smart and IoT-driven applications.



“Smart sensing meets seamless connectivity, enabling intelligent automation. Built for reliable performance, scalability, and real-time decision making.”

Technical Outcomes & Performance

- **99.9% Data Reliability**
Multi-layered connectivity ensures zero data loss, providing a continuous audit trail for energy compliance.
- **Real-time Adaptive Control**
Sub-second latency in data transmission allows for instantaneous set-point adjustments in AHUs and Chillers.
- **Enterprise-Grade Security:**
End-to-end encrypted data pipelines from the sensor level to your private cloud dashboard.



Why Choose Mendygo HVAC Monitoring System

Sustainability Meets Savings. We transform your building's HVAC from a static expense into a managed, high-efficiency asset.

01

Adaptive Comfort ROI

Efficiency without Compromise. Unlike traditional timers, our AI correlates real-time occupancy with thermal data to eliminate "empty-zone" cooling, reducing HVAC energy costs by up to 30%.

02

Asset Life Extension

Audit-Ready IAQ Monitoring. Automatically track and report Indoor Air Quality (CO_2 , Humidity, VOCs) to meet global building standards and ensure a safe, high-performance workspace.

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