

aethair PRO for ISO 23875

# Ensuring Cabin Air Quality Compliance for Your Entire Fleet



Aethair Pro is the perfect instrument for monitoring and maintaining cabin air quality across your entire fleet of heavy-duty equipment. With real-time monitoring of filtration efficiency, pressurization, CO<sub>2</sub> levels, and VOCs, Aethair Pro ensures that all vehicles remain compliant with ISO 23875—no matter where they operate.

## The Purpose of ISO 23875

ISO 23875 defines engineering controls to maintain safe air quality inside operator cabins. The standard primarily focuses on:

- › **Filtration Efficiency:** Ensuring high-efficiency particulate and gas-phase filtration.
- › **Cabin Pressurization:** Maintaining positive pressure to prevent contaminant ingress.
- › **Real-Time Monitoring:** Continuous measurement of CO<sub>2</sub> levels and pressure.
- › **Operator Safety:** Reducing exposure to hazardous airborne particles and gases.

## Key Requirements of ISO 23875

Requirement	Specification
Cabin Pressurization	≥ 20 Pa under normal operation
Particulate Filtration	Minimum 99% efficiency for PM <sub>2.5</sub> and PM <sub>10</sub>
Gas-Phase Filtration	Protection against VOCs, NO <sub>2</sub> , SO <sub>2</sub> , and other contaminants
CO <sub>2</sub> Monitoring	Required with automatic alerts if levels exceed 5,000 ppm
Recirculation Filtration	Ensures continuous removal of contaminants

# Applications of ISO 23875

Industry	Application
Mining	Underground and open-pit operations, compliance with MSHA standards
Construction	Heavy machinery used in dust-prone environments
Agriculture	Protection against pesticide and dust exposure
Forestry	Logging equipment operating in airborne particulate conditions
Industrial Operations	Protecting workers in high-exposure environments

## ISO 23875 Compliance Benefits

Benefit	Impact
Fleet-Wide Safety	Ensures all vehicles meet air quality standards in real time
Regulatory Compliance	Aligns with occupational safety standards (OSHA, MSHA, EPA)
Operational Efficiency	Minimizes downtime by preventing air quality-related health issues
Equipment Longevity	Prevents dust and debris from affecting cabin components

## Conclusion

Aethair Pro is the ultimate solution for real-time fleet-wide monitoring of cabin air quality. Whether operating in mines, construction sites, or agricultural fields, it ensures compliance with ISO 23875 and provides operators with the highest level of air quality protection. Highly configurable for all air monitoring needs—indoor, outdoor, and on the go—Aethair Pro guarantees a safer, more efficient fleet.



## How can we help you?

If you would like to find out more about how we can help you, please give us a call or send us an email.

Contact Us: +1 (267) 225-8487 [sales@aethair.io](mailto:sales@aethair.io)



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[aethair.io](http://aethair.io)