

ISO 23875 STANDARD FOR CAB AIR QUALITY



Protect Workers' Air Quality; Reduce Occupational Exposure to Dust and CO₂

ISO 23875 is an international standard that creates a consistent approach to designing, testing, operating, and maintaining operator enclosures with respect to air quality; performance requirements include:

5 Engineering and Performance Requirements

1 Defined CO₂ Levels



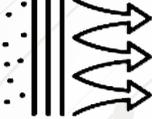
First alarm threshold:
Ambient CO₂ level plus 400 parts per million (PPM).
Second CO₂ alarm threshold: 2,500 PPM.

2 Defined Fresh & Recirculation System Efficiency



Maximum respirable particulate matter concentration less than 25 micrograms per cubic meter of air at start and end of decay test (maximum 120 second decay time).

3 Increased Filter Efficiency Requirements



Filtration that exceeds 94% efficiency at 0.3 microns is recommended. Filters must pass the required intake air leakage and particle decay tests.

4 Defined Pressurization Requirements



Operator enclosures must maintain a minimum pressure of 20 Pa with key on and HVAC blower turned off.

5 Defined, Real-Time Monitoring Requirements



Monitor must include an audible alarm for CO₂ and pressurization to alert the operator when levels exceed the permissible pressure range and CO₂ thresholds.

Meet ISO 23875 requirements with Sy-Klone Cab Air Quality Systems For new and existing mobile equipment, fixed plant, and enclosures

ISO 23875 performance requirements:



The Sy-Klone RESPA® fresh and recirculated cab air quality systems, RadialSHIELD® high-efficiency HEPA and EPA filters, and the RESPA Advisor®+ Monitor, combined with a well-sealed cab, provide the engineering controls needed to prepare a cab to meet ISO 23875 performance requirements.

Contact Sy-Klone for more information:

Sy-Klone.com
Sales@Sy-Klone.com



RESPA Fresh Air System Precleaner/Filter/Pressurizer



RESPA Recirculated Air System High-Efficiency Filtration



Pressure + CO₂ Monitor RESPA Advisor+



RadialSHIELD Filtration EPA or HEPA

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Implementing ISO 23875 at your company or job site

Sy-Klone Solution Provider

- Contact Sy-Klone for a Solution Provider referral, or connect your existing mobile HVAC service provider with Sy-Klone
- Solution Provider can retrofit existing fleet for you, or provide products to your maintenance department for installation

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+1 904-448-6563

HQ

- Adopt ISO 23875 as company-wide cab air quality standard
- Include "ISO 23875-compliant cab" on new machine tenders and heavy equipment purchase specifications
- Create a plan for retrofitting existing fleet

Job Site

- Adopt ISO 23875 as a cab air quality approach for existing heavy mobile equipment
- Monitor cab pressure to develop planned maintenance cycle for filter changes

- Create a schedule for routine testing of cab air quality
- Work with Solution Provider for ongoing maintenance, testing, and certification if desired