

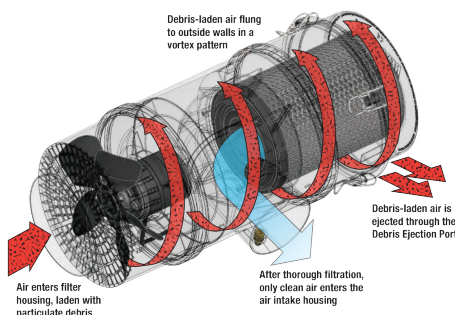
Improve operator **ALERTNESS**, create a **SAFER** work environment and increase **PRODUCTIVITY**!

Newly-Published Cabin Air Standard -
ISO 23875 WILL CHANGE LIVES!

Safety in mining operations is of concern to all involved in owning, developing, managing and working in mining environments.

The **NEW ISO 23875** places a greater emphasis on the air quality inside the cabin than previously addressed. This means designers and operators will need to consider aspects of control of airborne contaminants such as dust but also address the effects of CO₂ (a product of human respiration) dilution in the cabin environment. This will allow for operator enclosures to perform at a level that provides sustained air quality, reducing concentrations of respirable particulate matter and Carbon Dioxide (CO₂) that may be harmful to human health.

Sy-Klone's **RESPA®** system keeps dust and debris outside of the operator cabin. System includes: pre-cleaner, pressuriser, high-efficiency filtration and in-cabin monitoring system.



ISO 23875 differs from past standards because it is a lifecycle standard, addressing cabin air control systems from the time of design, to the time that equipment arrives on site and throughout its operating life. **ISO 23875** outlines specific engineering and ongoing testing to ensure compliance.

Trysome Auto Electrical Engineering, in partnership with Sy-Klone International, is well positioned to help mining companies meet **ISO 23875** requirements. With over 30 years of experience, and over 100 patents in air filtration and precleaning Sy-Klone International creates industry-leading air filtration solutions for the most intensive, debris-laden work environments. Together, Trysome Auto Electrical Engineering and Sy-Klone International bring you world-leading air-quality and control systems for heavy-equipment cabins.



Contact Trysome today on +27 (0)11 823 5650 and start your compliance journey to cleaner air.

Visit www.miningreview.com/webinars to register for our complimentary **ISO 23875 Workshop** on 21 April, 2 - 3 pm.

**Lead Speaker -
Jeff Moredock,
ISO Working
Group Lead**

Sponsored by:

TRYSOME
AUTO-ELECTRICAL ENGINEERING

SY-KLONE
INTERNATIONAL

ISO 23875 requirements

- **Increased filter efficiency requirements:** A filter that meets more stringent evaluation criteria, typically an ISO 15 E or higher efficiency, ISO 35 H HEPA filter, is required in ISO 23875-compliant cabins in mining.
- **Maximum allowable CO₂ level:** Ambient CO₂ plus 400 parts per million
- **Fresh air and recirculation system requirements:** Maximum respirable particulate matter concentration of less than 25 mg per cubic meter of air at start/end of decay test, with a maximum of 120 seconds delay time.
- **Established cabin pressurisation levels:** Operator enclosures must maintain minimum pressurisation of greater than or equal to 20 Pa, even when the HVAC is turned off.
- **Real-time operator cabin monitoring:** Monitor must include an audible alarm for CO₂ and pressurisation to alert the operator when levels go beyond the permissible threshold.

www.trysome.co.za | 0861 879 7663

TRYSOME
AUTO-ELECTRICAL ENGINEERING

Branches in: South Africa (Gauteng, KwaZulu Natal, Mpumalanga, North West, Northern Cape & Western Cape), Zambia (Kitwe), Mozambique (Tete) & Botswana (Jwaneng & Letlhakane)