



A New Leak Test Method for Enclosed Cab Filtration Systems

By Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health

Createspace, United States, 2013. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.A new test method has been developed by the National Institute for Occupational Safety and Health (NIOSH) and Clean Air Filter (CAF) for quantifying the outside air leakage into environmental cab filtration systems. This method uses specially configured filter cartridges to remove carbon dioxide (CO₂) from the environmental cab's air filtration system. Real-time gas monitors are used to measure the outside and inside cab CO₂ concentrations after the cab reaches steady-state equilibrium conditions inside an unoccupied cab. Cab filtration system leakage can be mathematically determined using the measured cab penetration (inside to outside cab concentration ratio) and the special CO₂ filter cartridge efficiency. Examination of several CO₂ sampling instruments for this type of testing showed them to be relatively precise, but exhibited noticeable variations in accuracy. These results indicate that frequent gas calibration checks of comparative sampling instruments would be needed to ensure their accuracy, which is not well-suited for cab field testing. Thus, a single-instrument, multiple-sample-location cab testing methodology was devised to eliminate multiple-instrument sampling biases and frequent calibrations during testing. This methodology was examined and...



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