



A New Leak Test Method for Enclosed Cab Filtration Systems (Paperback)

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 enclosed cab filtration systems. This method uses specially configured filter cartridges to remove carbon dioxide (CO₂) from the enclosed 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...

Reviews

This book is really gripping and fascinating. I really could comprehend almost everything using this published book. I am just very easily can get a delight of reading a published publication.

-- **Kailey Pacocha**

This created publication is wonderful. it absolutely was written extremely completely and beneficial. I discovered this publication from my dad and i encouraged this publication to discover.

-- **Kristina Kshlerin DDS**