Ansi Aiha Z9 5 Standard Laboratory

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The purpose of this standard is to establish minimum requirements and best practices for laboratory ventilation systems to protect personnel from overexposure to harmful or potentially harmful airborne contaminants generated within the laboratory.

Every laboratory will benefit from this outline of laboratory ventilation requirements and practices. Chapters include performance tests, air cleaning, preventive maintenance, and work practices. Five appendices covering definitions, terms and units are included. Those involved in laboratory management, including chemical hygiene officers, campus and institutional health and safety staff, industrial hygienists, and environmental health and safety staff will benefit from this standard.

A total of 484 tests were performed on chemical laboratory hoods (chemical hoods), using the ANSI/AIHA Z9.5-1992 (American National Standard Institute / American Industrial Hygiene Association, Laboratory Ventilation Standard) test method (ANSI-1992). Same numbers of the tests were performed on same chemical hoods, using the ANSI/ASHRAE 110-1995 (American National Standards Institute/American Society of Heating, Refrigerating, and Air Conditioning Engineers, Method of Testing Performance of Laboratory Fume Hoods) test method (ASHRAE 110). The three types of chemical hoods available for this study were Constant Air Volume (CAV), Variable Air Volume (VAV), and Low Flow. Overall, CAV hoods had the highest passing rate for the ASHRAE 110 (83%) followed by VAV hoods (82%) and low flow hoods (68%). The X2 test for homogeneity found a statistically significant difference between the test outcomes (pass/fail) of the ASHRAE 110 and the ANSI-1992 methods (X2 = 4.248, P=0.038) for VAV hoods only. Overall, 18% of the CAV and VAV chemical hoods tested in the 80-120 feet per minute (fpm) average face velocities, failed to meet the ASHRAE 110 test criteria. If the ANSI-1992 test method was performed alone, 18% of the chemical hoods would be certified while they were not able to meet the ASHRAE 110 criteria. Logistic regression analysis for VAV and CAV chemical hoods revealed that for VAV chemical hoods, the ASHRAE = Velocity model and for CAV chemical hoods, the multi variable regression model ASHRAE = ANSI + Velocity were appeared to be the best model for the ASHRAE 110 test outcome prediction.

This new standard describes fundamental good practices related to the commissioning, design, selection, installation, operation, maintenance, and testing of local exhaust ventilation (LEV) systems used for the control of employee exposure to airborne contaminants.

Since the first edition in 1948, Patty's Industrial Hygiene and Toxicology has become a flagship publication for Wiley. In the course of its nearly six decades in print, it has evolved into a standard reference for the fields of occupational health and toxicology. The volumes on Industrial Hygiene are cornerstone reference works for chemists, engineers, toxicologists, and occupational safety personnel. Since the 5th edition was published, the field of IH has changed with personnel often working for multinational firms, self-employed, at small consulting firms. Their environment has changed and expanded, and thus also the types of information and resources required have changed. The traditional areas of interest to occupational health and safety professionals include anticipation, recognition, evaluation and control of potential hazards. In addition to these, the 6th edition provides information and reliable resources to prepare for natural disasters, exposures to biological agents and potential acts of terrorism.