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Laboratory Ventilation Design Levels Developed by ASHRAE Technical Committee 9.10, Laboratory Systems Laboratory Classification Subcommittee In partnership with American Chemical Society Division of Chemical Health and Safety and American Industrial Hygiene Association Laboratory Health and Safety Committee Atlanta

~~Classification of Laboratory Design Levels - ASHRAE~~

Learn more about Free Publications at ashrae.org. Classification of Laboratory Ventilation Design Levels . This document provides background information to help classify, design, and operate LACSS according to the LVDL table included in the appendix (Table3).

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~~Laboratory Design Fundamentals - Madison ASHRAE~~

ASHRAE Laboratory Design Guide. McIntosh, Ian B.D., Dorgan, Chad B., Dorgan, Charles E. This book has been organized and developed to provide owners, designers, contractors, and operators with key information on the essential requirements for achieving high quality laboratory facilities. This design guide can be used for the design, troubleshooting, and operation of laboratory facilities or as a comprehensive reference.

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ASHRAE Standards Addenda, Errata, and Interpretations. Addenda for ASHRAE Standards, including continuous maintenance standards, are available online in PDF format. Standards that are on continuous maintenance are continuously updated through addenda and ASHRAE makes these available free online. Addenda

~~Standards and Guidelines - ASHRAE~~

H. ASHRAE Laboratory Design Guide, 2015 I. American Chemical Society's Committee on Chemical Safety: Identifying and Evaluating Hazards in Research Laboratories, 2015 J. Fuel Gas Code K. Institute of Laboratory Animal Resources, "Guide for the Care and Use of Laboratory Animals." L. International Fire Code

~~LABORATORY VENTILATION PART 1 GENERAL~~

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~~Laboratory Design: The Basics and Beyond—ASHRAE~~

This design guide can be used for the design, troubleshooting, and operation of laboratory facilities or as a comprehensive reference. The design guide progresses from project inception through operations and includes chapters on: Laboratory Planning, Design Process, Exhaust Hoods, Primary Air Systems, Process Cooling, Air Treatment, Exhaust Stack Design, Energy Recovery, Controls, Airflow Patterns and Air Balance, Operation and Maintenance, Laboratory Commissioning Process, HVAC System ...

~~Documents | ASHRAE 9.10 Laboratory Systems~~

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impact of the laboratory's ceiling height is identified as one reason why an air change approach does not adequately address the required contamination control (Section 7.5.1, Air Changes). ASHRAE Lab Guide–2001 : 4-12 ; The ASHRAE Laboratory Design Guide includes suggestions relating to the following: • Minimum supply air changes

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Lab Ventilation ACH Rates Standards and Guidelines January 3, 2012 White Paper Series Page 2 1.0 Introduction This document provides an overview of current US and European design practices, standards, and regulations regarding laboratory air change rate minimums for dilution ventilation. 2.0 Executive Summary

~~Laboratory Ventilation ACH Rates Standards and Guidelines~~

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