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Laboratory design Carlos Lisboa: The design of Chilled Page 4/37

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Cleanroom Facilities (ISO CLASSES) and ASHRAE quidelines (ENGLISH) Introduction to setting up your home laboratory Understanding Bio Safety Levels Ductwork sizing. calculation and design for efficiency - HVAC Basics + full worked example ASHRAE
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Standard 90.1 2010. Part I - Overview **Architectural** Animation - Lab Design C shape lab island bench installation ASHRAE 62.2 (2016) Using the New Standard in the Field Laboratory Equipment Names | List of Laboratory Equipment in Page 8/37

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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 Page 11/37

Safety Committee Atlanta Guide

Classification of **Laboratory Design** Levels - ASHRAF 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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Typical Airflows
Comparison

Laboratory Design
Fundamentals
Madison ASHRAE
ASHRAE Laboratory
Design Guide.
McIntosh, Ian B.D.,
Dorgan, Chad B.,
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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 Page 19/37

design, troubleshooting, and operation of laboratory facilities or as a comprehensive reference.

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Standards and Guidelines - ASHRAF H. ASHRAF Laboratory Design Guide, 2015 I. American Chemical Society's Committee on Chemical Safety: Identifying and Evaluating Hazards in Page 24/37

Research
Laboratories, 2015 J.
Fuel Gas Code K.
Institute of Laboratory
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be used for the
design,
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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 Page 28/37

Cooling, Air V Treatment, Exhaust Stack Design, Energy Recovery, Controls, Airflow Patterns and Air Balance, Operation and Maintenance, Laboratory Commissioning Process, HVAC System ...

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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 Page 32/37

System atory

Design Guide **ASHRAE Laboratory Design Guide** 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

ABORATORIES FOR THE 21ST ENTURY B EST P RACTICE G UIDE Lab Ventilation ACH Page 34/37

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 Page 35/37

Executive Summary

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