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ASHRAE Laboratory Design Guide, 2nd Ed.

Laboratory Ventilation Design Levels
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Committee 9.10, Laboratory Systems
Laboratory Classification Subcommittee
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The ASHRAE Laboratory Design Guide suggests that setback control strategies can be used in laboratories to reduce air changes during unoccupied periods, e.g., at night and on weekends. The 2007 ASHRAE ...

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Lab Vent Controls. 0 20000 40000 60000
80000 100000 0:00 6:00 12:00 18:00
0:00. Constant Volume / VAV Design
Point. VAV or Usage Based Controls
Design Point. Typical Cooling CFM
Requirement. CFM. Typical Airflows
Comparison

Laboratory Design Fundamentals -

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ASHRAE, in collaboration with AIA (American Institute of Architects), IES (Illuminating Engineering Society), USGBC (U.S. Green Building Council) and the DOE (Department of Energy) continues to develop the Advanced Energy Design Guide (AEDG) Series.

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Laboratory Design Guide 3rd edition is a complete guide to the complex process of laboratory design and construction. With practical advice and detailed examples, it is an indispensable reference for anyone involved in building or renovating laboratories.

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technologies that will achieve low carbon operation. This work informs campus decisions and the built environment industry. Coronavirus (COVID-19) Response Resources from ASHRAE and Others

Home | [ashrae.org](https://www.ashrae.org)

ASHRAE Standard 34-2013 establishes a

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simple means of referring to common refrigerants instead of using the chemical name, formula or trade name. It also established a uniform system for assigning reference numbers and safety classifications to refrigerants. ASHRAE refrigerant designations (current as of June 2016)

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Guide Second Edition ...

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

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following: • Minimum supply air changes

LABORATORIES FOR THE 21ST CENTURY BEST PRACTICE GUIDE

The Stanford Laboratory Standard & Design Guide is a resource document for use by faculty, staff, and design professionals during the planning and early design phases of a project. This

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Guide is to be used in conjunction with Stanford's Facilities Design Guidelines and applies to construction projects for all Stanford University facilities, including leased properties.

Laboratory Standard & Design Guidelines - Stanford ...

Lab Ventilation ACH Rates Standards

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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

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Laboratory Ventilation ACH Rates Standards and Guidelines

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

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of Laboratory Animals.” L. International Fire Code

LABORATORY VENTILATION PART 1 GENERAL

Some of the common codes and standards specific to labs are ANSI/AIHA/ASSE Z9.5, IECC or ASHRAE 90.1, ASHRAE Laboratory Design Guide,

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NIH Design Policy and Guidelines, NFPA 30, NFPA 45, NFPA 90A: Standard for the Installation of Air-Conditioning and Ventilating Systems, and NFPA 101: Life Safety Code, to name a few.

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Designing safe ...**

ASU Laboratory Standard & Design

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Guide Lab Ventilation June 2017

Questions? Email askehs@asu.edu or call 480-965-1823 Page 3 . ANSI/ASHRAE 41.2, Standard Method for Laboratory Air-Flow Measurement . ANSI/ASHRAE 41.3, Standard Method for Pressure Measurement Prudent Practices in the Laboratory, Committee on Prudent Practices for

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