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and protecting the integrity of laboratory experiments.

ASHRAE Laboratory Design Guide, 2nd Ed.

Laboratory Ventilation Design Levels
Developed by ASHRAE Technical Committee 9.10, Laboratory Systems Laboratory Classification Subcommittee in partnership with American Chemical

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Society Division of
Chemical Health and
Safety and American
Industrial Hygiene
Association Laboratory
Health and Safety
Committee Atlanta

**Classification of
Laboratory Design
Levels - ASHRAE**

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ASHRAE Laboratory Design Guide is a comprehensive reference manual for the planning, design, and operation of laboratories. It gives engineers, owners, and system operators the design and control strategies they need to reduce the laboratory's energy footprint while ensuring safety, providing good comfort and indoor air quality, and protecting the

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ASHRAE Design Guides

The ASHRAE
Laboratory Design
Guide has been
organized and
developed to provide
owners, designers,
contractors, and
operators with key
information on the
essential requirements
for achieving high
quality laboratory

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facilities. This design guide can be used for the design, troubleshooting, and operation of laboratory facilities or can be used as a comprehensive reference.

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The ASHRAE Laboratory Design Guide suggests that setback control

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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

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Usage Based Controls
Design Point. Typical
Cooling CFM
Requirement. CFM.
Typical Airflows
Comparison

Laboratory Design Fundamentals - Madison ASHRAE

ASHRAE, in
collaboration with AIA
(American Institute of
Architects), IES
(Illuminating
Engineering Society),
USGBC (U.S. Green

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Building Council) and the DOE (Department of Energy) continues to develop the Advanced Energy Design Guide (AEDG) Series.

AEDG - Advanced Energy Design Guides - ASHRAE

Laboratory Design Guide 3rd edition is a complete guide to the complex process of laboratory design and construction. With practical advice and

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detailed examples, it is an indispensable reference for anyone involved in building or renovating laboratories.

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University's campus is a living laboratory to test building 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
55-2018 establishes a
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Guide

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)

Standards and Guidelines - ASHRAE

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Laboratory Design

The ASHRAE Laboratory Design Guide 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

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facilities or can be used
as a comprehensive
reference.

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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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**LABORATORIES FOR
THE 21ST ENTURY B
EST P RACTICE G
UIDE**

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 Guide is to
be used in conjunction
with Stanford's

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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 and
Guidelines January 3,
2012 White Paper
Series Page 2 1.0
Introduction This

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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

H. ASHRAE Laboratory
Design Guide, 2015 I.

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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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PDF Ashrae Laboratory Design Code

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, 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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**Consulting -
Specifying Engineer
| Designing safe ...**

ASU Laboratory
Standard & Design
Guide Lab Ventilation
June 2017 Questions?
Email askehs@asu.edu
or call 480-965-1823

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41.2, Standard Method
for Laboratory Air-Flow
Measurement .

ANSI/ASHRAE 41.3,
Standard Method for
Pressure Measurement

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