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Design Levels

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Systems Laboratory  
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Society Division of  
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## **Classification of Laboratory Design**

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Lab Vent Controls. 0  
20000 40000 60000  
80000 100000 0:00  
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Constant Volume / VAV  
Design Point. VAV or  
Usage Based Controls  
Design Point. Typical  
Cooling CFM  
Requirement. CFM.  
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University's campus is  
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technologies that will  
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operation. This work  
informs campus  
decisions and the built  
environment industry.  
Coronavirus

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(COVID-19) Response  
Resources from  
ASHRAE and Others

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

ASHRAE Standard  
34-2013 establishes a  
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

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refrigerants. ASHRAE  
refrigerant  
designations (current  
as of June 2016)

## **Standards and Guidelines - ASHRAE**

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Laboratory Design  
Guide has been  
organized and  
developed to provide  
owners, designers,  
contractors, and  
operators with key  
information on the  
essential requirements



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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 ;

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The ASHRAE Laboratory Design Guide includes suggestions relating to the 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,

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and design professionals during the planning and early design phases of a project. This 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**

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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

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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

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the Care and Use 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, NIH  
Design Policy and  
Guidelines, NFPA 30,  
NFPA 45, NFPA 90A:

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Standard for the Installation of Air-Conditioning and Ventilating Systems, and NFPA 101: Life Safety Code, to name a few.

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ASU Laboratory  
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Page 3 . ANSI/ASHRAE  
41.2, Standard Method  
for Laboratory Air-Flow  
Measurement .

ANSI/ASHRAE 41.3,  
Standard Method for  
Pressure Measurement  
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