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# Ashrae Lab Guide

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... Section 1.0: LAB VENTILATION TABLE~~

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Classification of Laboratory Design  
Levels—ASHRAE Standards and  
Guidelines—ASHRAE ASHRAE Design  
Guides LABORATORY VENTILATION PART~~

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~~1 GENERAL ASHRAE Laboratory Design  
Guide, 2nd Ed. ASHRAE Laboratory  
Design Guide 9781936504985 ...  
Laboratory Ventilation ACH Rates  
Standards and Guidelines~~

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—ASHRAE  
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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### ~~ASHRAE Advanced Energy Design Guides~~

The Advanced Energy Design Guides (AEDGs) are a series of publications designed to provide recommendations for achieving zero energy buildings or building energy savings over the minimum code requirements of ANSI/ASHRAE/IES Standard 90.1. A zero

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energy building is defined as a building that, on an annual basis, draws from outside resources equal or less energy than it provides using on-site, renewable energy sources.

~~LABORATORIES FOR THE 21ST CENTURY BEST PRACTICE GUIDE~~  
ANSI/ASHRAE 41.3, Standard Method for

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Pressure Measurement Prudent Practices  
in the Laboratory, Committee on Prudent  
Practices for Handling, Storage, and  
Disposal of Chemicals in Laboratories  
National Institutes of Health Design  
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Guidance to Reduce Your Lab's Energy Footprint. This second edition of 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



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ensuring safety, providing good comfort and indoor air quality, and protecting the integrity of laboratory experiments.

~~ASHRAE Laboratory Design Guide:  
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ASHRAE Laboratory Design Guide (ASHRAE 2015). Specifically, this document addresses considerations likely to

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be encountered during design, renovation, or ongoing management of laboratories, ECDs, and LACSS. By limiting the scope of this document to laboratory scale use of airborne hazards, other guidance for

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the ASHRAE 62.1-2010 fresh air requirements for university/college laboratories that corresponds to about 1.2 ACH (.18 cfm/sq. ft or 0.9l/s/m<sup>2</sup>). In terms of recommended levels, standards are also significantly moving away from the prescribed values of the past to a more performance based

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~~ASHRAE Laboratory Design Guide, 2nd Ed.~~

ASHRAE Laboratory Design Guide Ian B.D. McIntosh Chad B. Dorgan Charles E. Dorgan American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. ISBN 10: 1-883413-97-4 ISBN 13: 978-1-883413-97-2 ©2001 American Society of Heating,

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Refrigerating and Air-Conditioning  
Engineers, I

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2001.pdf Documents~~

ASHRAE's Laboratory Design Guide has been organized and developed to provide owners, designers, contractors, and operators with key information on

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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.

~~Laboratory Design Fundamentals—~~  
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The ASHRAE Advanced Energy Design Guides (AEDG) are a series of publications designed to provide recommendations for achieving energy savings over the minimum code requirements of ANSI/ASHRAE/IES Standard 90.1.

~~Classification of Laboratory Design~~

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~~Levels—ASHRAE~~

ASHRAE Laboratory Design Guide is a comprehensive reference manual for the planning, design and operation of laboratories.

~~Standards and Guidelines—ASHRAE~~

H. ASHRAE Laboratory Design Guide,  
2015 I. American Chemical Society's



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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

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ASHRAE Laboratory Design Guide: Planning and Operation of Laboratory HVAC Systems, 2nd Ed. [-] on Amazon.com. \*FREE\* shipping on qualifying offers. ASHRAE Laboratory Design Guide is a comprehensive reference manual for the planning, design, and operation of laboratories.

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## ~~LABORATORY VENTILATION PART 1 GENERAL~~

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

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includes suggestions relating to the following:

- Minimum supply air changes

~~ASHRAE Laboratory Design Guide, 2nd Ed.~~

ASHRAE Laboratory Design Guide: Planning and Operation of Laboratory HVAC Systems, 2nd ed. This second edition of ASHRAE Laboratory Design

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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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integrity of laboratory experiments.

~~ASHRAE Laboratory Design Guide—  
9781936504985 ...~~

Laboratory Design Fundamentals.  
Presented by Don MacDonald. Northern  
Regional Manager. ASHRAE Madison  
Chapter. March 14, 2016. Lab Vent  
Controls ... ASHRAE September 2010.

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Retrofit Project Examples. Phoenix Controls Corporation —Proprietary and Confidential Memorial University. St. John's, NFLD.

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Learn more about ASHRAE Laboratory Design Guide, 2nd Ed. at

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[resourcecenter.ashrae.org](http://resourcecenter.ashrae.org)

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