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the Authors Jan BD.  
McIntosh, PhD. is a recent  
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engineering from the  
University of Wiscon.  
sin-Madison and ts a member  
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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 facilities or as ...

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- Minimum supply air changes.
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guidance for laboratory facility designers may be necessary to accommodate other hazards (i.e. ...

## ~~Classification of Laboratory Design Levels — ASHRAE~~

Regulations, guidelines and standards to ensure laboratory safety have been published by many industry groups, many of which can be found in Appendix A.

Complying with those requirements is a primary step in achieving laboratory safety objectives. Comfort Laboratory safety has to be balanced with worker comfort. Comfort primarily is concerned with maintaining appropriate

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temperatures and air ...

~~Laboratory Design Handbook~~  
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  
refrigerants. ASHRAE  
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Systems, 2nd ed. Course  
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webinars are available for  
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Programs. They may be  
periodically scheduled for  
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campus decisions and the built environment industry. 2021 ASHRAE Winter Conference Now Virtual: 2021 AHR Expo Cancelled. The 2021 AHR Expo originally scheduled to be held January 25-27, 2021 at McCormick Place in Chicago has been cancelled. The 2021 ...

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- Guidelines for Laboratory Design - Health and Safety Considerations 4th Edition
- ASHRAE Handbook - Applications Chapter 16. Animal Laboratory Spaces Animal Facility Diagrammatic Model Showing Basic Flows and Spatial Relationships (WBDG Animal Research

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Facility 2010) Animal  
Laboratory Spaces  
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the design troubleshooting  
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design guide has been  
organized and developed to  
provide owners designers  
contractors and operators  
with key information on the  
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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. Handziuk: Codes and standards that are currently of most interest are IECC ...

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