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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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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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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 refrigerant designations (current as of June 2016)

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

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ASU Laboratory Standard & Design 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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ASHRAE Laboratory Design Guide McIntosh , Ian B.D. , Dorgan , Chad B. , Dorgan , Charles E. This book 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.

ASHRAE Laboratory Design Guide | McIntosh, Ian B.D ...

Architects' "Guidelines for the Design and Construction of Hospital and Health Care Facilities" states a minimum ΔP of 0.01 in. w.c. (2.49 Pa) differential is required. When Ahmed, Mitchell and Klein 1 simulated a model of the dynamics of laboratory pressurization, they used a ΔP of 0.05

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Some of the common codes and standards specific to labs are ANSI/AIHA/ASSE

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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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Laboratory Ventilation Design Levels Developed by ASHRAE Technical Committee 9.10, Laboratory Systems Laboratory Classification Subcommittee In partnership with American Chemical Society Division of Chemical Health and Safety and American Industrial Hygiene Association Laboratory Health and Safety Committee Atlanta

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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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ASHRAE Laboratory Design Guide: Planning and Operation of Laboratory HVAC Systems, 2nd ed. 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 ensuring safety, providing good comfort and indoor air quality, and protecting the integrity of laboratory experiments.

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ASHRAE's 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 facilities or as a comprehensive reference.

AEDG - Advanced Energy Design Guides - ASHRAE

Lab Vent Controls. 0 20000 40000 60000 80000 100000 0:00 6:00 12:00 18:00
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