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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

~~Classification of Laboratory Design Levels—ASHRAE~~

Learn more about Free Publications at ashrae.org. Classification of Laboratory Ventilation Design Levels . This document provides background information to help classify, design, and operate LACs according to the LVDL table included in the appendix (Table3).

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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 ; The ASHRAE Laboratory Design Guide includes suggestions relating to the following: • Minimum supply air changes

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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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"Reference manual for planning, design, and operation of laboratory HVAC systems 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 experiments; includes online access to electronic design tools that illustrate features of laboratories and provide practical design aids"--

Prudent Practices in the Laboratory--the book that has served for decades as the standard for chemical laboratory safety practice--now features updates and new topics. This revised edition has an expanded chapter on chemical management and delves into new areas, such as nanotechnology, laboratory security, and emergency planning. Developed by experts from academia and industry, with specialties in such areas as chemical sciences, pollution prevention, and laboratory safety, Prudent Practices in the Laboratory provides guidance on planning procedures for the handling, storage, and disposal of

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chemicals. The book offers prudent practices designed to promote safety and includes practical information on assessing hazards, managing chemicals, disposing of wastes, and more. Prudent Practices in the Laboratory will continue to serve as the leading source of chemical safety guidelines for people working with laboratory chemicals: research chemists, technicians, safety officers, educators, and students.

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 facilities or can be used as a comprehensive reference.

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"Focuses on Environmental considerations in addition to health and safety, emphasizing environmental issues in design as well as green lab design. Contains a new section on Sustainable Design. Includes new chapters on Material Sciences and Engineering and Nanotechnology Provides updated information in all sections, especially the chapters on Animal Research and HVAC "--

Laboratory facilities are complex, technically sophisticated, and mechanically intensive structures that are expensive to build and to maintain. Hundreds of decisions must be made before and during new construction or renovation that will determine how successfully the facility will function when completed and how successfully it can be maintained once put into service. This book provides guidance on

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effective approaches for building laboratory facilities in the chemical and biochemical sciences. It contains both basic and laboratory-specific information addressed to the user community-the scientists and administrators who contract with design and construction experts. The book will also be important to the design and construction communities-the architects, laboratory designers, and engineers who will design the facility and the construction personnel who will build it-to help them communicate with the scientific community for whom they build laboratory facilities.

"Provides a summary of what is understood within ASHRAE about dampness-related health risks in buildings along with suggestions for HVAC system designers that can help avoid such risks as well as a simple and easily recognizable description of dampness that is

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sufficient to increase the probability of negative health effects and practical quantitative tools and techniques that can alert managers to the risk of a building or an indoor space becoming damp to an extent that affects health in the future"--

"Designed to provide recommendations for achieving 50% energy savings over the minimum code requirements of ANSI/ASHRAE/IESNA Standard 90.1-2004 for large hospitals; allows contractors, consulting engineers, architects, and designers to easily achieve advanced levels of energy savings without having to resort to detailed calculations or analyses"--

This guideline defines ventilation and then natural ventilation. It explores the design requirements for natural ventilation in the context

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of infection control, describing the basic principles of design, construction, operation and maintenance for an effective natural ventilation system to control infection in health-care settings.

This book provides a summary of the main obstacles for creating and maintaining high standards of health and safety in higher education and research organisations. The obstacles include high staff turnover and an uncertain and constantly evolving research environment, small groups lacking unified management structure, deadline time pressures, restricted funding models and existing "old school" culture. Often the Health and Safety specialists and personnel managers in these organisations find themselves reiterating the same information, which gets lost as soon as the new cohort of workers arrives. Providing insight into methods of managing health and safety, training, and supervision,

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which help to build a strong and reliable health and safety system, this book is a collection of "best practices" from experienced safety professionals and researchers in Europe and the United States. These experiences demonstrate how health and safety professionals have overcome these issues and provide readers with ideas and models they can use in their own organisations. The information contained within is aimed at health and safety professionals and managers in universities and research organisations conducting scientific and engineering research with transient workers and students worldwide.

"In handbook form to be useful to practicing engineers and other professionals, this book addresses smoke control design, smoke management, controls, fire and smoke control in transport tunnels, and full scale fire testing. For those getting started with computer

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models CONTAM and CFAST, there are simplified instructions with examples"--

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