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approach does not adequately address the required contamination control (Section 7.5.1., Air Changes).

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A comprehensive overview of HVAC design for laboratories is examined in the course. The course focuses on the essential elements of the design process that are unique to laboratory HVAC systems. Topics include: planning steps; risk assessment; determining exhaust/supply requirements; load calculation; pressure mapping; evaluating system options; layout of ducts and rooms; sizing primary air systems; designing exhaust stacks; sustainability in laboratories and control strategies.

Laboratory Design: The Basics and Beyond - ASHRAE

ASHRAE Laboratory Design Guide (ASHRAE 2015).

Specifically, this document addresses considerations likely to be encountered during design, renovation, or ongoing management of laboratories, ECDs, and LACSS.

Classification of Laboratory Design Levels - 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)

Standards and Guidelines - ASHRAE

Laboratory Design Fundamentals. Presented by Don MacDonald. Northern Regional Manager. ASHRAE Madison Chapter. March 14, 2016

Laboratory Design Fundamentals - Madison ASHRAE

Classification of Laboratory Ventilation Design Levels

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ASHRAE MERV vs. ISO 16890 Ratings *MERV-A will give closer results. Charged media filters usually show a drop-off in efficiency with use. ISO 16890 captures this with an IPA condition step. ASHRAE 52.2 can capture this drop if the test is done with the optional Appendix J which gives the MERV-A. Thus the MERV and the ePM ratings do not reflect ...

Filtration / Disinfection - ASHRAE

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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 ASHRAE Winter Virtual Conference will take place in a convenient, online format February 9-11, and will include a mixture of live, pre-recorded and on-demand sessions.

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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. This design guide can be used for the design, troubleshooting, and operation of laboratory facilities or as a comprehensive reference.

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