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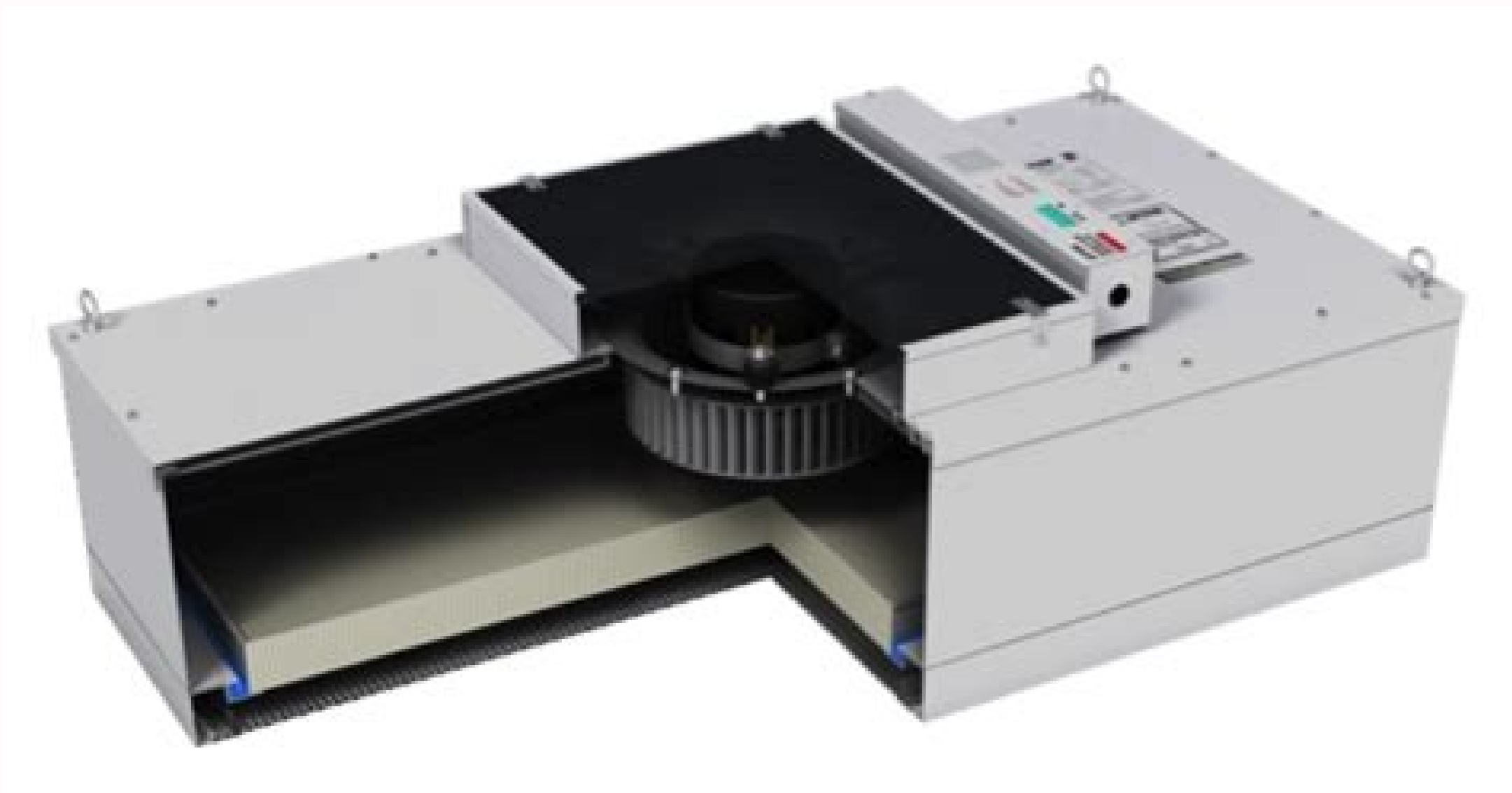
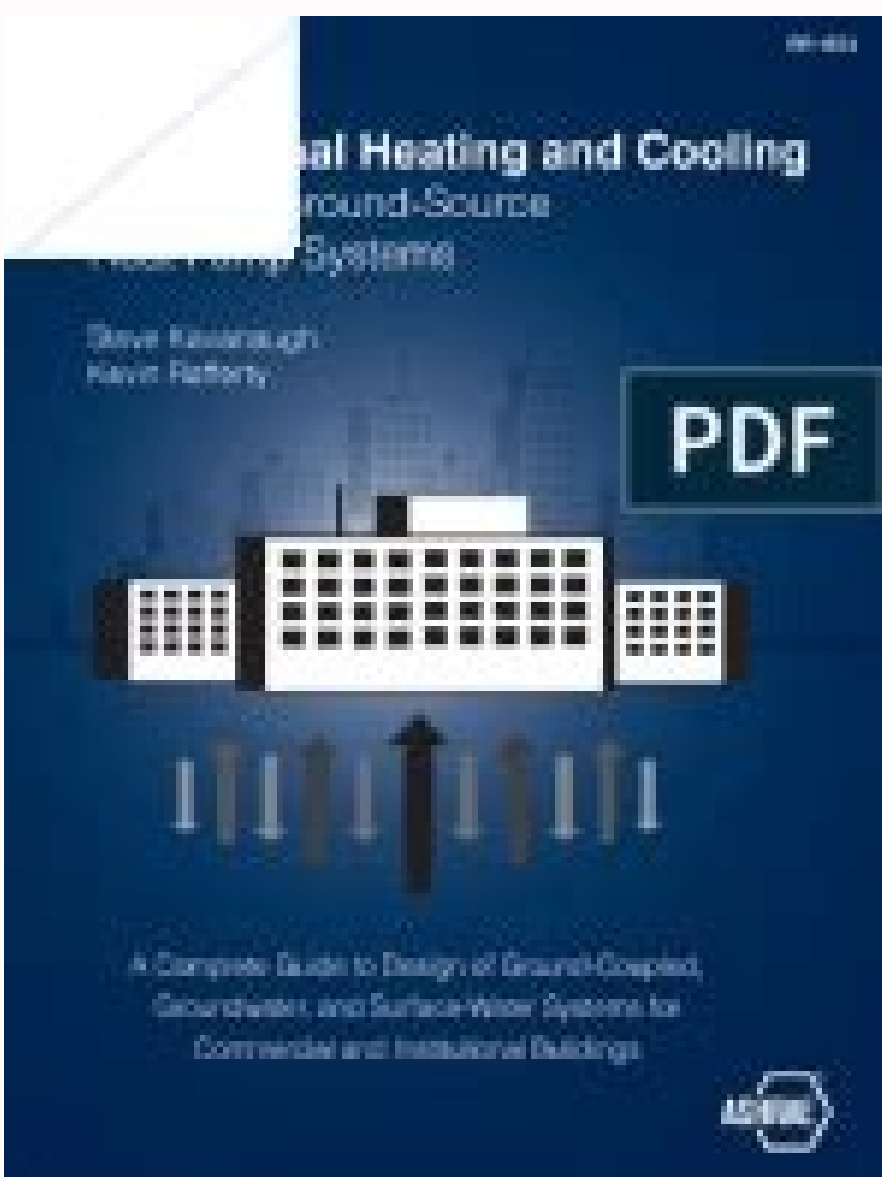
(d) Provide emergency heat based on 99.6 percent design dry bulb temperature - Column 1b. See Article 2.16, "Emergency Power for HVAC."

1.3.2 INDIVIDUAL ROOM TEMPERATURE CONTROLS. See Paragraph 2.14.1.9.

1.3.3 INDOOR DESIGN CONDITIONS: See Table 1-1 below:

Table 1-1 Indoor Design Conditions

Room or Area	Summer		Winter	
	Db Degrees C (Degrees F)	RH Percent	Db Degrees C (Degrees F)	RH Percent
Animal Research (Animal Rooms)	18 (65)	60 (+5)	29 (85)	30 (+5)
Auditoriums	24 (76)	60	22 (72)	--
AIDS Patient Areas	24 (76)	50	25 (78)	30
Autopsy Suites	24 (76)	60	24 (76)	30
Bathrooms & Toilet Rooms	25 (78)	--	22 (72)	--
Blood Banks	22 (72)	50	22 (72)	30
BMT (Bone Marrow Transplant) Patient Areas	24 (76)	50	25 (78)	30
Computer Rooms	21 (70)	40 (+5)	21 (70)	40 (+5)
CT Scanner	24 (76)	50	25 (78)	30
Dialysis Rooms	25 (78)	50	22 (72)	30
Dining Rooms	25 (78)	50	22 (72)	30
Dry Labs	25 (78)	50	22 (72)	30
Electrical Equipment Rooms	Ventilation Only		10 (50)	--
Elevator Machine Rooms, Electric Drive	36 (94)	--	10 (50)	--
Elevator Machine Rooms, Hydraulic	36 (94)	--	10 (50)	--
Emergency Generator	42 (110)	--	4 (40)	--
Examination Rooms	24 (76)	50	25 (78)	30
Gymnasiums	Ventilation Only		21 (70)	--
ICUs (Coronary, Medical, Surgical)	23-29 (75-85)	30-60	23-29 (75-85)	30-60
Isolation Suites	24 (76)	50	25 (78)	30
Kitchens	27 (82)	60	21 (70)	--
Laboratories	24 (76)	50	22 (72)	30
Laundries	28 (84)	60	19 (68)	-
Linear Accelerators	24 (76)	50	25 (78)	30



Dental Ventilation Theory and Applications

By Paul T. Ninomura, P.E.
Member ASHRAE

George Byrns

dent facilities need special ventilation systems to remove the aerosols generated by such devices. The health care workers are routinely generated by dent procedures, but the aerosols generated by drilling, etc. are not potentially as concerning as those generated by aerosol sprays in another context. Unfortunately, given the current situation, the dental facilities are unlikely to have the resources to install a dedicated ventilation system. The ASHRAE Handbook—HVAC Applications, Volume 2 (1991) illustrates the design of a dental office. Quilty¹⁰ notes the ASHRAE Handbook's recommendation to address the ventilation. The level of ventilation design needed for the most conservative design would be the same as for the dental office, but the ventilation design needed for aerosol sprays would be more stringent. The published literature on aerosol sprays (IAC) is the design target for the dental office. The published literature on aerosol sprays (IAC) is the design target for the dental office. The published literature on aerosol sprays (IAC) is the design target for the dental office.

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Home \\\n Hvac book \\\n ASHRAE DESIGN GUIDE for CLEANROOMS, Fundamentals, Systems, and Performance ASHRAE Design Guide for Cleanrooms provides the information needed for successful cleanroom projects. Designers, builders, owners and cleanroom operators will find this book an indispensable resource. The guide begins with fundamentals such as cleanroom classification and airflow, standards and guidelines for cleanroom design, and sources of contaminants within cleanrooms, including separate chapters on airborne particulate contaminants, surface particulate contaminants, airborne molecular contaminants, liquid-based contaminants, and microbial contaminants. From there, the guide proceeds to specific recommendations on the design of environmental control systems, covering planning and concerns such as contamination control, site selection and service requirements, critical flow arrangements, architectural considerations, internal environmental quality, external emissions control, and outdoor air intake, and safety. Further chapters discuss electrical, control and lighting systems, as well as the use of computational fluid dynamics (CFD) to assist in cleanroom design. Finally, the dedicated chapters cover cleanroom testing and certification, qualification, commissioning and cleanroom needs in specific types of facilities, such as semiconductors and electronics, pharmaceuticals, biotechnology and healthcare, and food processing. PART 1 — CLEANROOM BASICS 1 · Introduction 2 · Airborne particulate contaminants 3 · Surface particulate contaminants 4 · Airborne molecular contaminants 5 · Contaminants of liquid origin 6 · Microbial contaminants PART 2 — DESIGN OF CLEANROOMS AND ENVIRONMENTAL CONTROL SYSTEMS 7 · Planning and Basic Considerations 8 · Basic requirements 9 · General considerations on the internal design conditions of sand 10 · Electrical systems for clean rooms 11 · Cleanroom control systems 12 · Design of lighting systems for clean rooms 13 · Computational fluid dynamics for cleanroom design 14 · Cleanroom Utility Services PART 3 · TESTING, CERTIFICATION, COMMISSIONING AND QUALIFICATION OF CLEANROOMS 15 · Cleanroom Testing and Certification 16 · Commissioning in a clean room 17 · Qualification of CleanSpaces PART 4 — DESIGN OF CLEAN ROOMS IN SELECTED SECTORS 18 · Cleanrooms in semiconductors and electronics systems 19 · Clean rooms in pharmaceutical facilities 20 · Cleanrooms in biotechnology and healthcare facilities 21 · Cleanrooms in food processing industries Published:2017 Page number:448 Units of measurement: Dual. Share ASHRAE Design Guide for Cleanrooms provides the information needed for successful cleanroom projects. Designers, builders, owners and cleanroom operators will find this book an indispensable resource. The guide begins with fundamentals such as cleanroom classification and airflow, standards and guidelines for cleanroom design, and sources of contaminants within cleanrooms, including separate chapters on airborne particulate contaminants, surface particulate contaminants, airborne molecular contaminants, liquid-based contaminants, and microbial contaminants. From there, the guide proceeds to specific recommendations on the design of environmental control systems, covering planning and concerns such as contamination control, site selection and service requirements, critical flow arrangements, architectural considerations, internal environmental quality, external emissions control, and outdoor air intake, and safety. 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This design guide is divided into four parts, each containing multiple chapters:Fundamentals of the cleanroom Design and environmental control systems Testing, certification, commissioning and qualificationDesigning clean rooms in selected industriesThe cleanrooms and associated technologies commonly used in modern microelectronics, semiconductors, pharmaceuticals, biotechnology, nanotechnology, medical device, life sciences, aerospace, Optics, Automotive, Healthcare, Biosecurity Laboratory and Food Processing industries, covering virtually all major high-tech sectors where contaminants present in the air or indoor surface can adversely affect the production process or scientific research. Cleanrooms require much lower levels of contaminants than commercial spaces, and although non-contamination cannot be fully achieved, cleanrooms designed, operated and controlled with ultra-low concentrations of these contaminants to meet specific process requirements for indoor air cleaningTHE ASHRAE Cleanroom Design Guide offers a practical and comprehensive approach to theories, the fundamentals, performance, control, testing and industrial applications of cleanrooms. DownloadATHRAE Cleanroom Design Guide: Fundamentals, Systems, and PerformanceAHRAE Cleanroom Design Guide: Fundamentals, Systems, and Performance

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