

Table 3.3 Ventilation Design Parameters

Room Type	Rooms Relationship to Adjacent Room (s)	Minimum Outside ACH (s)	Minimum Total ACH (s)	All Room Air Delivered Directly to Patient(s)	All Delivered by HVAC System (s)	MMI (s)	Design Temperature (°F) (s)
<b>SURGERY AND CRITICAL CARE</b>							
Clean Hold & Operating Room (OR) (s)	Patient	4	8	NR	NR	NR	65(72)-74
Operating surgical bypass room (OR, BPR)	Patient	4	8	NR	NR	NR	65(72)-74
Isolation room (Procedure) (IP) (s)	Patient	4	8	NR	NR	NR	65(72)-74
Isolation service area	NR	1	6	NR	NR	NR	NR
Recovery room	NR	1	6	NR	NR	NR	70(72)-74
Critical and intensive care	NR	1	6	NR	NR	NR	70(72)-74
Intensive care (ICU)	NR	1	6	NR	NR	NR	70(72)-74
Wood-Working Care (WCC)	NR	1	6	NR	NR	40	70(72)-74
Neonatal Intensive Care	Patient	1	6	NR	NR	NR	70(72)-74
Trained room (p)	NR	1	6	NR	NR	30	70(72)-74
Transient room (min or short) (q)	Patient	1	6	NR	NR	NR	70(72)-74
Medical/Research (protection)	NR	NR	1	NR	NR	NR	NR
Lab (by Room)	Patient	1	12	NR	NR	NR	70(72)-74
ICU Waiting Room (q)	NR	1	12	NR	NR	NR	70(72)-74
Tray (q)	NR	1	12	NR	NR	NR	70(72)-74
ER Department/room	NR	1	12	NR	NR	NR	NR
Radiology waiting room (q, 1.5)	NR	1	12	NR	NR	NR	70(72)-74
Clean Air Operating Room (OR) (s)	Patient	1	12	NR	NR	NR	70(72)-74
<b>INPATIENT SERVICES</b>							
Patient Room (i)	NR	1	6	NR	NR	NR	70(72)-74
Technique	NR	NR	6	NR	NR	NR	NR
Neonatal Intensive Care	NR	1	6	NR	NR	NR	70(72)-74
Patient Isolation Room (IP) (s)	Patient	1	6	NR	NR	NR	70(72)-74
All Room (i)	NR	1	6	NR	NR	NR	70(72)-74
Critical Care/ICU Room	Patient	1	6	NR	NR	NR	70(72)-74
All sections (i)	NR	1	6	NR	NR	NR	NR
Private room (i)	NR	NR	6	NR	NR	NR	NR
Centrally Air-Conditioned	NR	NR	6	NR	NR	NR	NR
Isolation/Containment Isolation (DCP) (i)	NR	1	6	NR	NR	NR	70(72)-74
Isolation/Containment (DCP) (i)	NR	1	6	NR	NR	NR	70(72)-74
Patient Shower	NR	NR	6	NR	NR	NR	NR
Neonatal Intensive Room	NR	NR	6	NR	NR	NR	NR

# Ashrae Health Care Design Manual

**United States. Department of Health  
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requirements for various types of rooms found in hospitals A chapter on terminology begins to define several medical terms for the design engineer

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**Hospital Airborne Infection Control** Wladyslaw Kowalski,2011-12-07 Although nosocomial or hospital acquired infections have been well cataloged and are fairly well understood traditional solutions have failed to completely eliminate the problem Even the most modern hospitals find themselves stymied by the persistence of these pathogens in hospital wards and operating rooms The degree to which most of these infections are airborne is not known but a growing body of evidence indicates that airborne transmission plays a role in many hospital acquired infections Addressing one of the most important topics in health care Hospital Airborne Infection Control is the first book to deal with the control of airborne nosocomial infections in detail It identifies all pathogens known or suspected to be airborne along with their sources in hospital environments It also summarizes all epidemiological evidence for airborne transmission The text addresses respiratory surgical site burn wound immunocompromised pediatric nursing home and non respiratory infections In each category an extensive number of examples show that inhalation is not the only airborne route by which infections may be transmitted Noting that airborne transmission and surface contamination are virtually inseparable the author emphasizes that both air and surface disinfection including hand hygiene are important factors in controlling the transmission of airborne disease He also proposes a variety of new solutions and technologies including ultraviolet ionization ozone plasma and vegetative air cleaning systems A compendium of scientific and medical information this book helps hospitals control nosocomial infections and outbreaks spread by the airborne route as well as by direct contact and contact with fomites or contaminated equipment

**Consulting-specifying Engineer**, 2003    *Guide for Hospital Buyers*, 2002    Infection Control Issues in the Environment of Care, 2005 Disease causing organisms result in nearly two million infections in hospitals each year and nearly 88 000 patients die as a result The text addresses the unique infection control issues within the environment of care for all health care settings    **ASHRAE Journal**, 1995    **Guidelines for Design and Construction of Residential Health, Care, and Support Facilities** Facility Guidelines Institute, 2014 The new standard was developed in response to the widespread adoption of person centered care and deinstitutionalization in the residential care industry Based on Part 4 Residential Care Facilities of the 2010 edition of the FGI Guidelines for Design and Construction of Health Care Facilities and public proposals submitted on that text in fall 2011 the book is divided into a section on planning and predesign a section on design and construction elements common to all facility types in the book and three sections grouped by facility type ANSI ASHRAE ASHE Standard 170 2013 Ventilation of Health Care Facilities has been included as Part 6 Facility Guidelines Institute website    Guidelines for Design and Construction of Hospitals and Outpatient Facilities 2014 Facility Guidelines Institute, 2014-01-01 This product of the Facility Guidelines Institute FGI provides minimum standards for design and construction of hospitals and outpatient facilities The standards for long term care facilities will appear in a new document for 2014 please see the entry for Guidelines for Design and Construction of Residential Health Care and Support Facilities Included in the Guidelines for Hospitals and Outpatient Facilities is information on the planning design construction and commissioning process and facility requirements for both hospitals and outpatient facilities Included are general hospitals psychiatric hospitals and rehabilitation facilities as well as new chapters on children s and critical access hospitals Outpatient facilities covered include primary care facilities outpatient surgery facilities birth centers urgent care centers mobile units outpatient psychiatric and rehabilitation centers facilities for endoscopy dialysis and cancer treatment and a new chapter on dental facilities In addition the 2014 Guidelines includes new material on safety risk assessments and medication safety zones increased requirements for commissioning infrastructure systems and updated requirements for surgery imaging endoscopy and dialysis facilities as well as primary care facilities and freestanding emergency facilities

*Steam Sterilization and Sterility Assurance in Health Care Facilities* Association for the Advancement of Medical Instrumentation, 2002    **Sound & Vibration 2.0** David Sykes, Gregory C. Tocci, William J. Cavanaugh, 2012-10-02 This document was commissioned by the Facility Guidelines Institute as the sole reference for acoustics in health care facilities It was written by the Health Care Acoustics Working Group a permanent committee of the Acoustics Research Council ARC comprised of members of leading professional societies in acoustics noise control engineering acoustical consulting and related professions ARC organized the health care Working Group in 2004 5 drawing its members from ten constituencies that range from medicine to law public policy architecture design and engineering in order to provide constructive guidance on sound and vibration based on research and best practices Sound and Vibration 2.0 has been adopted as the sole reference

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