

AIRFLOW DIRECTION INCORPORATED

AIRFLOW DIRECTION AWARENESS FOR HEALTHCARE FACILITIES

The following table is compared to the 2001 Edition of the AIA/HHS Guidelines for Design & Construction of Hospital and Healthcare Facilities (ISBN 1-571165-002-4) with ADI's comments. See also: ASHRAE 2003 Handbook Series & ASHRAE's "HVAC Design Manual for Hospital and Clinics". **DISCLAIMER:** The intent of this table is to bring to the attention of the staff and designers areas that are sensitive to the direction of airflow and thus should incorporate a means of testing for proper airflow direction. Regardless of this table, the designed direction of airflow into or out of a room should be designed/reviewed by a licensed Professional Engineer in the jurisdiction of the facility and approved by the authority having local jurisdiction.

AREA	
Surgery & Critical Care	
Operating/Surgical Room	Out
Cystoscopy Room	Out
Delivery Room	Out
Trauma Room	Out
Recovery/ PACU CCU & ICU	---
Bronchoscopy	In
Endoscopy	In
Anesthesia Gas Storage	In

AREA	
Nursing	
Protective Isolation/Environment Room	Out
Protective Isolation/Environment Anteroom. In from Protective Isolation Rm, out to corridor	In To Out
Labor/Delivery/Recovery Room	---
Patient Room & Patient Corridor	---
Newborn Nursery Suite	---
Airborne Infectious Isolation Rm	In
Infectious Isolation/Environment Anteroom. In from Corridor, out to Isolation Room	In To Out
Toilet Room	In

AREA	
Diagnostic/Treatment	
Clean Workroom/Clean Holding	Out
Exam Rm Immunocompromised	Out**
Medication Rm	Out
Exam Room Infectious Potential	In**
Physical Therapy/Hydrotherapy	In
Soiled Workroom/Holding	In

AREA	
Service	
CleanLinen/Utility	Out
Food Preparation Center	In*
General Laundry	In*
Dietary Day Storage	In
Soiled Linen/Utility/Trash	In
Bedpan Washroom	In
Bathroom	In
Janitor's Closet	In
Warewashing	In

AREA	
Ancillary	
Administrative Office Areas	Out**
Radiology/Surgical (Cath)	Out
Pharmacy	Out**
Emer. Rm Waiting Area	In**
Emer. Rm (ER) Triage	In**
Emer. Rm Radiology	In**
Radiology Darkroom	In
General Laboratory	In*
Biochem. & Serology Lab	In*
Cytology, Histology Lab	In
Pathology & Autopsy	In
Microbiology & Nuclear Medicine Laboratory	In
Nonrefrig. Body Holding	In

AREA	
Sterilizing & Supply	
Clean Workroom	Out
Sterile Storage	Out
CSR/ETO-Sterilizing Room	In
Sterilizer Equipment Room	In
Soiled or Decon Room	In

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* Differs from AIA/HHS Guidelines.

** Room title not included in AIA/HHS Guideline but suggested by ADI.

The overall intent of above is to provide air movement from "clean to less clean" area and also to contain odors say from the kitchen to the corridor. Areas that require continuous control are noted with an "In" or "Out" to indicate the required direction of air movement in relation to the space named. The dashes represent areas that may be "In" or "Out", depending on the particular application/requirements of that space at a certain time. ADI recommends all designs be reviewed by a Healthcare Infection Control Officer and a Registered Professional Engineer and the Authority Having Jurisdiction (AHJ).