

Appendix 2 – Recommended air-change rates

Application	Ventilation	AC/hr	Pressure (Pascals)	Supply filter	Noise (NR)	Temp (°C)	Comments (for further information see Chapter 6)
General ward	S/N	6	–	G4	30	18–28	
Communal ward toilet	E	6	–ve	–	40	–	
Single room	S/E/N	6	0 or –ve	G4	30	18–28	
Single room WC	E	3	–ve	–	40	–	
Clean utility	S	6	+ve	G4	40	18–28	
Dirty utility	E	6	–ve	–	40	–	
Ward isolation room	–	–	–	–	–	–	See Health Building Note 04-01 (Supplement 1)
Infectious diseases isolation room	E	10	–5	G4	30	18–28	Extract filtration may be required
Neutropeanic patient ward	S	10	+10	H12	30	18–28	
Critical care areas	S	10	+10	F7	30	18–25	Isolation room may be –ve pressure
Birthing room	S & E	15	–ve	G4	40	18–25	Provide clean air-flow path
SCBU	S	6	+ve	F7	30	18–25	Isolation room may be –ve pressure
Preparation room (lay-up)	S	>25	35	F7	40	18–25	
Preparation room/bay (sterile pack store)	S	10	25	F7	40*	18–25	*50 NR if a bay in a UCV theatre
Operating theatre	S	25	25	F7	40	18–25	
UCV operating theatre	S	25*	25	H10 or greater	50	18–25	*Fresh-air rate; excludes recirculation
Anaesthetic room	S & E	15	>10	F7	40	18–25	Provide clean air-flow path
Theatre sluice/dirty utility	E	>20	–5	–	40	–	
Recovery room	S & E	15	0	F7	35	18–25	Provide clean air-flow path
Catheterisation room	S	15	+ve	F7	40	18–22	
Endoscopy room	S	15	+ve	F7	40	18–25	
Endoscopy cleaning	E	>10	–ve	–	40	–	
Day-case theatre	S	15	+ve	F7	40	18–25	
Treatment room	S	10	+ve	F7	35	18–25	
Pharmacy aseptic suite	S	20	#	H14	–	18–22	# See EGGMP (Orange guide) ^a
Category 3 or 4 containment room	#	>20	#	H14*	–	18–22	# See ACDP guide; *Filter in extract
Post-mortem room	S & E	S = 10 E = 12	–ve	G4	35	18–22	Provide clean air-flow path
Specimen store	E	–	–ve	–	–	–	Fan accessible from outside of store

Notes: 18–22°C indicates the range over which the temperature may float.

18–22°C indicates the range over which the temperature should be capable of being controlled.

S = supply

E = extract

N = natural ventilation

a – European guidelines on good manufacturing practice published by the Medicines and Healthcare products Regulatory Agency (MHRA)