

Space Type	ASHRAE	ISO 16813:2006	OSHA	CIBSE Guide A	NFPA 99 (Healthcare)
Residential Spaces					
Living Rooms	0.35 ACH or 15 cfm/person	0.5 – 2 ACH	-	0.5 – 2 ACH	-
Kitchens	7 – 8 ACH	8 – 12 ACH	-	6 – 10 ACH	-
Bathrooms	6 – 7 ACH	8 – 12 ACH	-	8 – 10 ACH	-
Commercial Spaces					
Office Spaces	4 – 6 ACH	3 – 6 ACH	5 ACH	4 – 6 ACH	-
Conference Rooms	6 – 8 ACH	5 – 8 ACH	-	6 – 8 ACH	-
Retail Stores	6 – 10 ACH	4 – 8 ACH	-	6 – 10 ACH	-
Restaurants	8 – 10 ACH	6 – 12 ACH	-	8 – 12 ACH	-
Educational Spaces					
Classrooms	6 – 20 ACH	5 – 15 ACH	-	6 – 20 ACH	-
Laboratories	8 – 12 ACH	8 – 15 ACH	-	10 – 12 ACH	-
Healthcare Facilities					
Patient Rooms	6 – 12 ACH	4 – 8 ACH	6 ACH	4 – 10 ACH	Min. 6 ACH
Operating Rooms	15 – 20 ACH	12 – 25 ACH	-	15 – 25 ACH	Min. 20 ACH
Intensive Care Units (ICU)	12 – 15 ACH	10 – 20 ACH	-	12 – 20 ACH	Min. 15 ACH
Industrial Spaces					
Warehouses	6 – 30 ACH	4 – 20 ACH	-	6 – 30 ACH	-
Machine Shops	6 – 12 ACH	8 – 15 ACH	-	6 – 12 ACH	-
Welding Shops	12 – 15 ACH	10 – 20 ACH	-	12 – 15 ACH	-
Other Spaces					
Auditoriums	8 – 15 ACH	6 – 12 ACH	-	8 – 15 ACH	-
Theaters	8 – 15 ACH	6 – 12 ACH	-	8 – 15 ACH	-
Beauty Salons	6 – 10 ACH	8 – 15 ACH	-	6 – 12 ACH	-
Boiler Rooms	15 – 20 ACH	10 – 20 ACH	-	15 – 20 ACH	-
Commercial Kitchens	15 – 60 ACH	20 – 60 ACH	-	20 – 60 ACH	-