

ASHRAE Technical FAQ

ID 9

Question How many Air Changes are recommended for my application?

ASHRAE's design recommendations for air change rates for various applications are primarily contained within the [2015 ASHRAE Handbook – HVAC Applications](#).

Requirements for outside air ventilation rates are contained in [ASHRAE Standard 62.1-2016](#), "Ventilation for Acceptable Indoor Air Quality", plus [ASHRAE BOD approved addenda](#). [ASHRAE Standard 62.1-2016](#) ventilation requirements are expressed in airflow rate per person and airflow rate per unit area of occupiable space. Some codes may express outdoor air requirements in air changes per unit time, but not Standard 62.1.

The handbook and standard may be purchased and downloaded on-line at our website, www.ashrae.org or by calling 1-800-527-4723 in the USA and Canada or 1-404-636-8400 worldwide.

Answer

For industrial applications, the [ACGIH](#) publication [Industrial Ventilation - A Manual of Recommended Practice](#) is another good source for ventilation information. This publication can also be purchased from the ASHRAE bookstore on-line.

Other sources for required ventilation rates are found in model codes promulgated by the International Association of Plumbing and Mechanical Officials ([IAPMO](#)) and the International Code Council ([ICC](#)).

[AIA](#) - American Institute of Architects, (www.aiaonline.com)

[ACGIH](#) - American Conference of Governmental Industrial Hygienists, (www.acgih.org)

[BOCA](#) - Building Officials and Code Administrators International, (www.bocai.org).

ASHRAE Pubs

[ASHRAE Standard 62.1-2016](#) plus [ASHRAE BOD approved addenda](#).
[2015 ASHRAE Handbook – HVAC Applications](#)

Topic References ventilation, air changes, air flow, ACH

	Cognizant ASHRAE Committees	Refer to Organization
1	TC 4.3	AIA
2	TC 9.3	ACGIH
3	TC 9.8	BOCA
4	SSPC 62.1	IAPMO
5	SSPC 62.2	ICC