



# Minimum indoor air quality performance

EQp1 | Required

## Intent

To establish minimum indoor air quality (IAQ) performance to enhance indoor air quality in buildings, thus contributing to the comfort and well-being of the occupants.

## Requirements

Meet the minimum requirements of Sections 4 through 7 of ASHRAE 62.1–2007, Ventilation for Acceptable Indoor Air Quality (with errata but without addenda<sup>1</sup>). Projects outside the U.S. may use a local equivalent to ASHRAE Standard 62.1-2007 for breathing zone minimum ventilation rates.

### AND

#### Case 1. Mechanically ventilated spaces

##### Option 1. ASHRAE standard 62.1-2007 or non-U.S. equivalent

Modify or maintain the existing outside air ventilation distribution system to supply at least the outdoor air ventilation rate required by ASHRAE 62.1–2007 (with errata but without addenda<sup>1</sup>). Projects outside the U.S. may use a local equivalent to ASHRAE Standard 62.1-2007 for breathing zone minimum ventilation rates.

### OR

##### Option 2. CEN standard EN 15251: 2007

Projects outside the U.S. may modify or maintain each outside air intake, supply air fan and/or ventilation distribution system to supply at least the outdoor air ventilation rate required by Annex B of Comité Européen de Normalisation (CEN) Standard EN 15251: 2007, Indoor environmental input parameters for design and assessment of energy performance of buildings addressing indoor air quality, thermal environment, lighting and acoustics.

If the project team cannot meet the outside air requirements of the above standards, document the space and system constraints that make it not possible, complete an engineering assessment of the system's maximum cubic feet per minute (cfm) capability toward meeting the requirements of the above standards, and achieve those levels, with a minimum of 10 cfm (0.28 cubic meters per minute) per person. All other requirements must be met.

### OR

#### Case 2. Naturally ventilated spaces

Naturally ventilated buildings must comply with ASHRAE Standard 62.1-2007, Paragraph 5.1 (with errata but without addenda<sup>1</sup>). [[Europe ACP: Arbeitsstaettenrichtlinie ASR 5](#)] [[Latin America ACP: Engineered Natural Ventilation Systems](#)]

Modify or maintain the existing outside air ventilation distribution system to supply at least the outdoor air ventilation rate required by ASHRAE Standard 62.1–2007 (with errata but without addenda<sup>1</sup>). If the project team cannot meet the outside air requirements of ASHRAE 62.1–2007 (with errata but without addenda<sup>1</sup>), document the space and system constraints that make it not possible, complete an engineering assessment of the system's maximum cubic feet per minute (cfm) capability toward meeting the requirements of ASHRAE 62.1– 2007 (with errata but without addenda<sup>1</sup>), and achieve those levels, with a minimum of 10 cfm (0.28 cubic meters per minute) per person. All other requirements must be met.

## Alternative Compliance Paths (ACPs)

### Europe ACP: Arbeitsstaettenrichtlinie ASR 5

Projects in Europe may use Arbeitsstaettenrichtlinie ASR 5 or ASR A3.6 as a local equivalent to ASHRAE Standard 62.1-2007, paragraph 5.1.

### Latin America ACP: Engineered Natural Ventilation Systems

Projects in Latin America may follow the *Verification Protocol for Engineered Natural Ventilation Systems in Equatorial Climates* and receive a design review and approval from the Colombian Professional Association of Air-conditioning, Ventilation and Refrigeration (ACAIRE).