



AIR QUALITY STANDARDS

Parameter	Air Quality Standard	Organisation	Health Hazards
Carbon Monoxide	35 ppm/40,000 µg/m ³ as 1 hour average	USEPA NPAAQS	dizziness, loss of memory, fatigue, headaches, loss of muscular control
	9 ppm/10,000 µg/m ³ as 8 hour average	SIAQG	
Carbon Dioxide	Ventilation rate/air exchange rate to achieve carbon dioxide level below 1,000 ppm / 1800 mg/m ³	ASHRAE SIAQG	headache, sensation of shortage of breath, discomfort effects
Total Volatile Organic Compounds	4 ppm/5 mg/m ³ for total VOCs	AIHA	acute bronchitis, humidifier fever, allergies, skin irritation
	3 ppm	SIAQG	
Ozone	0.12ppm/235 µg/m ³ as 1 hour average	USEPA NPAAQS	0.1 ppm eye irritation 0.15 ppm increase asthmatic effect, bronchitis, bronchopneumonia, abscesses of lung & lung tumours
	0.05 ppm/100 µg/m ³ as 8 hour average	ASHRAE SIAQG	
Respirable Suspended Particulates	150 µg/m ³ as 24 hour average	USEPA NPAAQS	eye, nose irritation, cough, sneezing, asthmatic effects
	50 µg/m ³ as annual mean 0.15 mg/m ³ as 24 hour average	SIAQG	
Formaldehyde	0.4 ppm for indoor exposure	ASHRAE	carcinogenic, miscellaneous hypersensitivity fatigue
	0.1 ppm / 120 µg/m ³	SIAQG	
Temperature	22°C - 24°C	ASHRAE	discomfort, difficulty in concentration, fatigue, sleepiness
	22.5°C - 25.5°C	SIAQG	
Relative Humidity	40% - 60 %	ASHRAE	discomfort, stuffy, headache, dry throat, skin discomfort, eye discomfort (contact lens wearer)
	≤ 70%	SIAQG	
Bacteria	500 CFU/m ³ as a maximum value	AIHA	infections, pontiac fever, legionnaire disease
		SIAQG	
Fungus	500 CFU/m ³ as a maximum value	AIHA	stimulate the outbreak of asthma
		SIAQG	
Air Movement	≤ 0.25 m/s	SIAQG	physical discomfort, stuffy, headache

