



ADDENDA

**ANSI/ASHRAE Addendum i to
ANSI/ASHRAE Standard 62.1-2019**

Ventilation for Acceptable Indoor Air Quality

Approved by ASHRAE and by the American National Standards Institute on April 29, 2022.

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FOREWORD

ASHRAE/ASHE Standard 170-2021 adds a new Table 8-2 covering low-risk outpatient facilities and lists R_a and R_p values for such spaces, which supersede the values listed in Standard 62.1-2019, Table 6-1.

Rather than delete the values from Standard 62.1, Addendum i relocates them to a new normative appendix to accommodate building codes (e.g., International Mechanical Code®) that still do not reference Standard 170 for business occupancy (B) outpatient facilities.

In addition, some ventilation rates and air classifications have been aligned with ASHRAE/ASHE Standard 170.

Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~striking through~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes.

Addendum i to Standard 62.1-2019

Modify Table 6-1 as shown. The remainder of Table 6-1 is unchanged.

Table 6-1 Minimum Ventilation Rates in Breathing Zone (Continued)

Occupancy Category	People Outdoor Air Rate R_p		Area Outdoor Air Rate R_a		Default Values	Air Class	OS (6.2.6.1.4)
	cfm/person	L/s·person	cfm/ft ²	L/s·m ²	Occupant Density		
					#/1000 ft ² or #/100 m ²		
Outpatient Health Care Facilities^{a,b}							
Birthing room	10	5	0.18	0.9	15	2	
Class 1 imaging rooms	5	2.5	0.12	0.6	5	1	
Dental operator	10	5	0.18	0.9	20	1	
General examination room	7.5	3.8	0.12	0.6	20	1	
Other dental treatment areas	5	2.5	0.06	0.3	5	1	
Physical therapy exercise area	20	10	0.18	0.9	7	2	
Physical therapy individual room	10	5	0.06	0.3	20	1	
Physical therapeutic pool area	—	—	0.48	2.4	—	2	
Prosthetics and orthotics room	10	5	0.18	0.9	20	1	
Psychiatric consultation room	5	2.5	0.06	0.3	20	1	
Psychiatric examination room	5	2.5	0.06	0.3	20	1	
Psychiatric group room	5	2.5	0.06	0.3	50	1	
Psychiatric seclusion room	10	5	0.06	0.3	5	1	
Speech therapy room	5	2.5	0.06	0.3	20	1	
Urgent care examination room	7.5	3.8	0.12	0.6	20	1	
Urgent care observation room	5	2.5	0.06	0.3	20	1	
Urgent care treatment room	7.5	3.8	0.18	0.9	20	1	
Urgent care triage room	10	5	0.18	0.9	20	1	

a. Outpatient facilities to which the rates apply are freestanding birth centers, urgent care centers, neighborhood clinics and physicians offices, Class 1 imaging facilities, outpatient psychiatric facilities, outpatient rehabilitation facilities, and outpatient dental facilities.

b. The requirements of this table provide for acceptable IAQ. The requirements of this table do not address the airborne transmission of airborne viruses, bacteria, and other infectious contagions.

Informative Note: These rates are intended only for outpatient dental clinics where the amount of nitrous oxide is limited. They are not intended for dental operatories in institutional buildings where nitrous oxide is piped.

Modify Section 6.2.1 as shown.

6.2.1 Zone Calculations. Ventilation zone parameters shall be determined in accordance with Sections 6.2.1.1 through 6.2.1.3 for ventilation zones served by the ventilation system, except that the ventilation rates from ASHRAE/ASHE Standard 170 shall be used for the occupancy categories within the scope of ASHRAE/ASHE Standard 170. For outpatient facilities outside the scope of ASHRAE/ASHE Standard 170, refer to Normative Appendix P.

Add new Normative Appendix P as shown. Outpatient Health Care Facility spaces from Table 6-1 have been moved to Table P-1; modified values are highlighted.

(This is a normative appendix and is part of the standard.)

NORMATIVE APPENDIX P
VENTILATION RATES FOR OUTPATIENT FACILITIES
NOT COVERED BY ASHRAE/ASHE STANDARD 170

P1. GENERAL

This appendix presents minimum ventilation rates in breathing zones for spaces in outpatient facilities to which the authority having jurisdiction (AHJ) deemed ASHRAE/ASHE Standard 170 not applicable.

P2. VENTILATION RATES

For zones in outpatient facilities not covered by ASHRAE/ASHE Standard 170, ventilation zone parameters shall be determined in accordance with Sections 6.2.1.1 through 6.2.1.3 using the rates in Table P-1.

Table P-1 Minimum Ventilation Rates in Breathing Zone (Continued)

<u>Occupancy Category</u>	<u>People Outdoor</u> <u>Air Rate R_p</u>		<u>Area Outdoor</u> <u>Air Rate R_a</u>		<u>Default Values</u>	<u>Air</u> <u>Class</u>	<u>OS (6.2.6.1.4)</u>
	<u>cfm/ person</u>	<u>L/s· person</u>	<u>cfm/ft²</u>	<u>L/s·m²</u>	<u>Occupant Density</u>		
					<u>#/1000 ft² or #/100 m²</u>		
<u>Outpatient Health Care Facilities^{a,b}</u>							
<u>Birthing room</u>	<u>10</u>	<u>5</u>	<u>0.18</u>	<u>0.9</u>	<u>15</u>	<u>2</u>	
<u>Class 1 imaging rooms</u>	<u>7.5</u>	<u>3.8</u>	<u>0.12</u>	<u>0.6</u>	<u>5</u>	<u>1</u>	
<u>Dental operatory</u>	<u>10</u>	<u>5</u>	<u>0.18</u>	<u>0.9</u>	<u>20</u>	<u>1</u>	
<u>General examination room</u>	<u>7.5</u>	<u>3.8</u>	<u>0.12</u>	<u>0.6</u>	<u>20</u>	<u>1</u>	
<u>Other dental treatment areas</u>	<u>5</u>	<u>2.5</u>	<u>0.06</u>	<u>0.3</u>	<u>5</u>	<u>1</u>	
<u>Physical therapy exercise area</u>	<u>20</u>	<u>10</u>	<u>0.18</u>	<u>0.9</u>	<u>7</u>	<u>2</u>	
<u>Physical therapy individual room</u>	<u>10</u>	<u>5</u>	<u>0.12</u>	<u>0.6</u>	<u>20</u>	<u>2</u>	
<u>Physical therapeutic pool area</u>	<u>—</u>	<u>—</u>	<u>0.48</u>	<u>2.4</u>	<u>—</u>	<u>3</u>	
<u>Prosthetics and orthotics room</u>	<u>10</u>	<u>5</u>	<u>0.18</u>	<u>0.9</u>	<u>20</u>	<u>2</u>	
<u>Psychiatric consultation room</u>	<u>5</u>	<u>2.5</u>	<u>0.06</u>	<u>0.3</u>	<u>20</u>	<u>1</u>	
<u>Psychiatric examination room</u>	<u>5</u>	<u>2.5</u>	<u>0.06</u>	<u>0.3</u>	<u>20</u>	<u>1</u>	
<u>Psychiatric group room</u>	<u>5</u>	<u>2.5</u>	<u>0.06</u>	<u>0.3</u>	<u>50</u>	<u>1</u>	
<u>Psychiatric seclusion room</u>	<u>10</u>	<u>5</u>	<u>0.12</u>	<u>0.6</u>	<u>5</u>	<u>1</u>	
<u>Speech therapy room</u>	<u>5</u>	<u>2.5</u>	<u>0.06</u>	<u>0.3</u>	<u>20</u>	<u>1</u>	
<u>Urgent care examination room</u>	<u>7.5</u>	<u>3.8</u>	<u>0.12</u>	<u>0.6</u>	<u>20</u>	<u>2</u>	
<u>Urgent care observation room</u>	<u>5</u>	<u>2.5</u>	<u>0.06</u>	<u>0.3</u>	<u>20</u>	<u>2</u>	
<u>Urgent care treatment room</u>	<u>7.5</u>	<u>3.8</u>	<u>0.12</u>	<u>0.6</u>	<u>20</u>	<u>2</u>	
<u>Urgent care triage room</u>	<u>10</u>	<u>5</u>	<u>0.18</u>	<u>0.9</u>	<u>20</u>	<u>3</u>	

a. The requirements of this table provide for acceptable IAQ. The requirements of this table do not address the airborne transmission of viruses, bacteria, and other infectious contagions.

b. These rates are intended only for outpatient dental clinics where the amount of nitrous oxide is limited. They are not intended for dental operatories in institutional buildings where nitrous oxide is piped.

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The effects of the design and selection of equipment and systems will be considered within the scope of the system's intended use and expected misuse. The disposal of hazardous materials, if any, will also be considered.

ASHRAE's primary concern for environmental impact will be at the site where equipment within ASHRAE's scope operates. However, energy source selection and the possible environmental impact due to the energy source and energy transportation will be considered where possible. Recommendations concerning energy source selection should be made by its members.

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