



Index of Addenda to ANSI/ASHRAE Standard 62.1

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Letter	62-1999	62-2001	62.1-2004	62.1-2007	62.1-2010	62.1-2013	62.1-2016	62.1-2019		
<i>a</i>	Incorporated in 62-1989								Published in 1990.	The addendum revised the standard's purpose by deleting the word "avoid" and substituting the phrase "minimize the potential for" in front of the words "adverse health effects." The addendum also changed the standard's designation to denote its status as an American National Standard (ANSI).
<i>b</i>									The committee withdrew this addendum from consideration, and the issue of existing buildings was addressed by Addenda 62k and 62af. Withdrawn in September 2000.	Scope – Would have limited the standard to new buildings, plus existing buildings but only where specifically identified in the document.
<i>c</i>	Incorporated								Incorporated in Standard 62-1999 in January 1999.	Removes reference to thermal comfort, which is addressed by ANSI/ASHRAE Standard 55-1992, <i>Thermal Environmental Conditions for Human Occupancy</i> .
<i>d</i>	Incorporated								Incorporated in Standard 62-1999 in January 1999	Rewords the scope to say compliance with the standard may not achieve acceptable indoor air quality for reasons such as variations in contaminant sources and occupant susceptibilities.
<i>e</i>	Incorporated								Incorporated in Standard 62-1999 in January 1999.	Deletes a footnote from Table 2 saying the ventilation rates in the standard accommodate a "moderate amount of smoking."
<i>f</i>	Incorporated								Incorporated in Standard 62-1999 in January 1999.	Clarifies guidance regarding indoor carbon dioxide.
62.1g (62g)	62g	62g	<i>62.1g (2004)</i> Included in the 2006 Supplement	Incorporated					Published in the 2006 Supplement to 62.1-2004.	Separation of ETS areas - Creates requirements for classification, signage and separation of areas where smoking is permitted.
<i>h</i>	<i>h</i>	<i>h (2001)</i>	Incorporated						Incorporated in Standard 62.1-2004 in December 2004.	Updates the IAQ Procedure, a performance-based design approach in which a building and its ventilation system are designed to maintain concentration of contaminants at certain levels.
<i>i</i>	<i>i</i>	<i>i (2001)</i>	Incorporated						Incorporated in Standard 62.1-2004 in December 2004.	Describes situations when the IAQ Procedure can be used.
<i>j</i>		Incorporated							Incorporated in Standard 62-2001 in June 2001.	Revises how natural ventilation may be used.
<i>k</i>	<i>k</i>	<i>k (2001)</i>	Incorporated						Incorporated in Standard 62.1-2004 in December 2004.	Addresses how the standard would apply in new and existing buildings.
<i>l</i>		Incorporated							Incorporated in Standard 62-2001 in June 2001.	Creates a new section on construction and ventilation system start-up, recognizing that IAQ is impacted by more than just the design of an HVAC system.
<i>m</i>		Incorporated							Incorporated in Standard 62-2001 in June 2001	Creates a section on operations and maintenance, recognizing their importance to achieving acceptable indoor air quality.
<i>n</i>	<i>n</i>	<i>n (2001)</i>	Incorporated						Incorporated in Standard 62.1-2004 in December 2004.	Revises the Ventilation Rate Procedure for determining design ventilation rates.
<i>o</i>	<i>o</i>	<i>o (2001)</i>	Incorporated						Incorporated in Standard 62.1-2004 in December 2004.	Provides design guidance for determining design ventilation rates for spaces where smoking is permitted.



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<i>p</i>		Incorporated							Incorporated in Standard 62-2001 in June 2001.	Discusses how to provide combustion air to dilute water vapor, carbon dioxide and other contaminants created by indoor combustion appliances and how to provide sufficient ventilation for such appliances.
<i>q</i>		Incorporated							Incorporated in Standard 62-2001 in June 2001.	Modifies several definitions for clarity, and deletes several standard and unused terms for brevity.
<i>r</i>	<i>r</i>	<i>r</i> (2001)	Incorporated						Incorporated in Standard 62.1-2004 in December 2004.	Modifies requirements for an assessment of outdoor air quality and requires filtration of the intake air when outdoor particle levels are high.
<i>s</i>		Incorporated							Incorporated in Standard 62-2001 in June 2001.	Clarifies requirements for equipment-related particle filtration.
<i>t</i>	<i>t</i>	<i>t</i> (2001)	Incorporated						Incorporated in Standard 62.1-2004 in December 2004.	Clarifies requirements related to condensate management, including drain pan design, carryover from cooling coils, and access for inspection and cleaning.
<i>u</i>	<i>u</i>	<i>u</i> (2001)	Incorporated						Incorporated in Standard 62.1-2004 in December 2004.	Contains requirements related to the control of ventilation systems, including outdoor air intake control in VAV systems.
<i>v</i>	<i>v</i>	<i>v</i> (2001)	Incorporated						Incorporated in Standard 62.1-2004 in December 2004.	Contains requirements to ensure that air-distribution systems are capable of delivering outdoor air to occupied spaces.
<i>w</i>		Incorporated							Incorporated in Standard 62-2001 in June 2001.	Defines performance criteria for airstream surface materials in ventilation system equipment, ducts and plenums intended to minimize the potential for microbial growth and dissemination through the air-distribution system.
<i>x</i>	<i>x</i>	<i>x</i> (2001)	Incorporated						Incorporated in Standard 62.1-2004 in December 2004.	Clarifies and adds requirements to ensure that the building envelope does not contribute to indoor air quality problems.
<i>y</i>	<i>y</i>	<i>y</i> (2001)	Incorporated						Incorporated in Standard 62.1-2004 in December 2004.	Classifies air with respect to contaminant and odor intensity and limits the recirculation of lower quality air into spaces that contain air of higher quality.
<i>z</i>	<i>z</i>	<i>z</i> (2001)	Incorporated						Incorporated in Standard 62.1-2004 in December 2004.	Requires cleaning of the intake air when outdoor ozone levels are high.
<i>aa</i>	<i>aa</i>	<i>aa</i> (2001)	Incorporated						Incorporated in Standard 62.1-2004 in December 2004.	Modifies requirements for outdoor air intakes, including separation distances from outdoor pollutant sources.
<i>ab</i>	<i>ab</i>	<i>ab</i> (2001)	Incorporated						Incorporated in Standard 62.1-2004 in December 2004.	Clarifies existing requirements for connection of spot exhausts.
<i>ac</i>									This addendum was withdrawn in April 2003. Industrial spaces were addressed by <i>Addenda 62ae</i> and <i>62af</i> .	Removal of industrial spaces from scope
<i>ad</i>	<i>ad</i>	<i>ad</i> (2001)	Incorporated						Incorporated in Standard 62.1-2004 in December 2004.	Updates, expands and clarifies Appendix B on contaminant concentration guidelines.
<i>ae</i>	<i>ae</i>	<i>ae</i> (2001)	Incorporated						Incorporated in Standard 62.1-2004 in December 2004.	Miscellaneous definitions and other “cleanup” items. Adds a definition of “cognizant authority” and “industrial space,” and updates and corrects a number of other small items, such as the references.
<i>af</i>	<i>af</i>	<i>af</i>	Incorporated						Incorporated in Standard 62.1-2004 in	Changes the standard’s scope to clarify its relevance to new versus existing buildings

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		(2001)							December 2004.	and to industrial and laboratory spaces.
<i>62ag</i>		<i>62ag</i> (2001)							Incorporated into 62.1f (DA-8). Terminated.	Expected to add a new section to scope implementing Board policy that Standard 62 applies only to non-smoking spaces but includes guidance on separating smoking areas from non-smoking areas. Other revisions expected to other portions of the Standard for consistency with the scope changes.
<i>DA-1</i> (62ah)		<i>62ah</i> (2001)							Terminated.	Consolidates interpretations of Standard 62 related to demand control ventilation (DCV) and provisions of <i>Addendum 62n</i> . Expected to provide language that clarifies that DCV is an acceptable method to comply with ventilation requirements.
<i>62.1a</i> (62ai)		<i>62ai</i>	<i>62.1a</i> (2004) Included in the 2006 Supplement	Incorporate d					Published in the 2006 Supplement to 62.1-2004.	Expected to clarify several issues from <i>Addendum 62x</i> including exceptions to 65% RH requirement and other exceptions in labs and industrial spaces.
<i>DA-2</i> (62aj)		<i>62aj</i>	<i>62.1e</i> (2004)	Incorporate d					Incorporated into 62.1-2004.	Expected to add documentation requirements, incorporating existing requirements with new requirements to provide single point reference for users.
<i>62ak</i>		<i>62ak</i> (2001)							Incorporated into 62.1f (DA-8). Terminated.	Remove information that is covered by Standard 62.2, which was approved by the BOD in July 2003. Also, simultaneously change both the TPS and Target TPS in response to public review comments and to properly address smoking areas in the scope.
<i>62.1b</i> (DA-3)			<i>62.1b</i> (2004) Included in the 2006 Supplement	Incorporate d					Published in the 2006 Supplement to 62.1-2004.	Corrects occupancy-category naming inconsistencies in 6-1 and 6-4. Eliminates former Table 5.2. Deals with inconsistencies and missing information in Table 5-2, 6-1 and 6-4, which developed due to phased drafting and approval of 62y and 62n.
<i>62.1a</i> (DA-4)				<i>62.1a</i> (2007) Included in the 2008 Supplement	Incorporated				Published in the 2008 Supplement to 62.1-2007.	General cleanup of 62.1-2004, adding clarity and removing errors and inconsistencies. No significant new requirements.
(DA-5)									Reconciles differences in ventilation for residential occupancies between Table E-2 and Std 62.2. Expected to add some high-rise residential ventilation requirements to Table 6-1, while eliminating Table E-2. Cancelled. See Addendum 62.1h.	Ventilation requirements for residential occupancy categories in high-rise residential buildings.

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62.1c (DA-6)			62.1c (2004) Included in the 2006 Supplement	Incorporated					Published in the 2006 Supplement to 62.1-2004.	Updates some listed concentrations in Tables B-1 and B-2 in informative Appendix B to be consistent with the most recent published information of the cited cognizant authorities. Also updates references and clarifies some text.
62.1d (DA-7)			62.1d (2004) Included in the 2006 Supplement	Incorporated					Published in the 2006 Supplement to 62.1-2004.	Updates Table 4-1 to be consistent with current NAAQS, and changes the cited reference appropriately.
62.1f (DA-8)			62.1f (2004)	Incorporated					Incorporated into 62.1-2004.	This addendum makes changes to the purpose and scope of Standard 62.1 to make them more consistent with several changes to the body of Standard 62.1-2004 that have already been incorporated (removal of smoking rates, new/ existing buildings distinctions, O&M and Construction sections, and others).
62.1h (DA-9)			62.1h (2004)	Incorporated					Incorporated into 62.1-2004.	This addendum adds requirements for residential spaces into the ventilation rate table (Table 6-1) and deletes Tables E-2 and E-3 from Appendix E, which provided ventilation requirements for residences and vehicles.
62.1b (DA-10)				62.1b (2007) Included in the 2008 Supplement	Incorporated				Published in the 2008 Supplement to 62.1-2007.	This addendum addresses compliance issues that may result from unclear wording or phrasing in Appendices C, D, and F. Appendix C: The text is changed to indicate that the percentages presented are percent-difference values, rather than percent-change values. Appendix D: Editorial text improvements which emphasize that the equations are only for single zone systems and increase consistency with Section 6. Also, replaced "air change effectiveness" (e) with "zone air change effectiveness" (Ez) to be consistent with Section 6. Appendix F: In Table F-1 and F-2, added air classification numbers per Section 5.17. These were always intended to be replaced by Air Class when that addendum was published, but the change was not picked up. Also, reformatted Table F-1 to match Table F-2, and moved units from title to table.
62.1i (DA-12)			62.1i (2004)	62.1i (2007)	Incorporated				Published in 2010.	Deletes Section 6.2.9 Ventilation in Smoking Areas.

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62.1c (DA-13)				62.1c (2007)	Incorporated				Published in 2010.	Addendum updates Table 4-1 to include the NAAQS for PM2.5 and inserts appropriate language into Section 6.2.1. The U.S. EPA changed to an eight-hour average ozone concentration as the basis for compliance with the NAAQS. Selection of a design value of 0.107 ppm or more (corresponding to Serious, Severe, or Extreme by the U.S. EPA) is based on limiting this requirement to the worst ambient air quality areas with regards to ozone. Requirement related to when ozone air-cleaning devices must operate is changed to adjust for the U.S. EPA policy change. The trigger point for requiring air-cleaning devices was lowered to 0.080 ppm.
62.1d (DA-14)				62.1d (2007)	Incorporated				Published in 2010.	Addendum adds the following Occupancy Categories to Table 6-1: "Kitchens (cooking)" has been inserted under the subheading "Food and Beverage Service". "Banks" or "Bank Lobbies" has been inserted under the subheading "Miscellaneous Spaces" and "Breakrooms" has been inserted under the subheading "Office Buildings". "Sorting, Packing, Light Assembly" and "General Manufacturing (excludes heavy industrial and processes using chemicals)" have been inserted under the subheading "Miscellaneous Spaces". Occupancy category, "Storage rooms (dry)" has been inserted in under "Office Buildings".
62.1e (DA-01)				62.1e (2007) Included in the 2008 Supplement	Incorporated				Published in the 2008 Supplement to 62.1-2007.	The purpose of this addendum is to bring up to date the references to industry standards and documents within the body of Standard 62.1-2007, and particularly in Section 9.
62.1f (DA-05)				62.1f (2007) Included in the 2008 Supplement	Incorporated				Published in the 2008 supplement to 62.1-2007.	This addendum addresses an issue raised by interpretation, IC 62.1-2004-03, clarifying the meaning of "pool deck area" and associated outdoor airflow rate requirements.
62.1g (DA-06)				62.1g (2007)	Incorporated				Published in 2010.	This addendum has been developed in response to a change proposal; additional information for demand controlled ventilation (DCV) systems has been developed to augment Section 6.2.7 Dynamic Reset.
62.1h (DA-07)				62.1h (2007) Included in the 2008 Supplement	Incorporated				Published in the 2008 Supplement to 62.1-2007.	Table 4-1 has become out-of-date due to changes in the U.S. ambient air quality regulations. This addendum relocates Table 4-1 to a new informative appendix and makes appropriate wording changes in Section 4.1. In this way, changes to the NAAQS can be made quickly, without need for public review and processing.
				62.1i (2007)					See 62.1i (DA-12) above	
62.1j (DA-09)				62.1j (2007)	Incorporated				Published in 2010.	This addendum to Section 8 clarifies when, at a minimum, the ventilation systems shall be operated.

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62.1k (DA-18)				62.1k (2007)	Incorporated				Published in 2010.	This addendum corrects language in Note 2 of Table 6-1 (smoking) to make it consistent with terminology used elsewhere in the standard.
62.1l (DA-20)				62.1l (2007)	Incorporated				Published in 2010.	This addendum modifies Informative Appendix D as follows: (1) Improve variable-name consistency with body of the standard and Appendix A. (2) Delete one figure, replace with two improved figures. (3) Delete “proportional” systems from Table D-1, since VAV systems with fixed-position outdoor air dampers are unlikely to meet the requirements of the standard and should be discouraged.
62.1m (DA-18)				62.1m (2007)	Incorporated				Published in 2010.	This addendum removes ventilation requirements for healthcare spaces from the Standard since ventilation requirements for these types of spaces are covered in Standard 170-2008, “Ventilation of Health Care Facilities”.
62.1n (DA-19)				62.1n (2007)	Incorporated				Published in 2010.	This addendum modifies Section 5.1 and 6.0 to relocate Natural Ventilation requirements into Section 6, to add prescriptive requirements for naturally ventilated systems, and to require both passive and mechanical ventilation (mixed-mode or hybrid) ventilation for most buildings in most climates.
62.1o (DA-23)				62.1o (2007)	Incorporated				Published in 2010.	This addendum moves the existing 6.2.8 and the corresponding Table 6-4 into a new Section 6.5 such that it applies to all spaces regardless of the method used to provide ventilation to the occupied spaces (Ventilation Rate Procedure, IAQ Procedure, Natural Ventilation).
62.1p (DA-16)				62.1p (2007)	Incorporated				Published in 2010.	This addendum addresses separation distance requirements between outdoor air intakes and other openings in buildings with respect to sources of contaminants and exhaust locations. To reduce the need for interpretation and judgment, building exhaust and relief airstreams are characterized using the Classes of Air already defined in the Standard rather than simple descriptions of the air quality.
62.1q (DA-22)				62.1q (2007)	Incorporated				Published in 2010.	Designers who choose to use the IAQ Procedure must identify contaminants of concern. Table B-3 lists some volatile organic compounds which designers might want to consider as possible contaminants of concern. Also, the impact of mixtures of some contaminants on humans may be considered to be “additive” (this is a basic assumption in the Ventilation Rate Procedure). To encourage designers to consider “additivity” when applying the IAQ Procedure, some guidance from the ACGIH has been included in the informative text.
62.1r (DA-17)				62.1r (2007)	Incorporated				Published in 2010.	This addendum modifies the IAQ procedure description in Section 6.1 and its requirements in Section 6.3. It addresses compliance issues that may result from unclear wording or phrasing, requires a mass balance analysis, and requires a subjective analysis after construction. It eliminates compliance using “design approaches that have proved successful in similar buildings.”
62.1s (DA-21)				62.1s (2007)	Incorporated				Published in 2010.	Based on committee-member experience, “shipping/receiving” areas and “warehouses” require a minimum outdoor airflow rate per person as well as a minimum per unit area rate, and “coin-operated laundries” need a higher minimum outdoor airflow rate per unit

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										area than previously published.
62.1t (DA-11)				62.1t (2007)	Incorporated				Published in 2010.	This addendum modifies normative Appendix A, and associated Section 6.2 requirements, as follows: <ul style="list-style-type: none"> • It reduces compliance issues that may result from unclear wording or phrasing, especially for VAV systems. • It improves nomenclature consistency between the body of the standard and the appendix. • It moves key equations from textual definitions to the body of the Appendix. • It clarifies the design conditions (including minimum expected discharge airflow and highest expected system primary airflow) used to calculate worst-case intake airflow for multiple-zone recirculating systems.
62.1a (DA-25)					62.1a (2010) Included in the 2011 Supplement	Incorporated			Published in the 2011 Supplement to 62.1-2010.	Research data has been presented to the SSPC through the continuous maintenance process that showed that adjustments to Table 6-2 – Zone Air Distribution Effectiveness were warranted. This addendum specifies that an under floor air distribution system that provides low velocity air at 4.5 ft above the floor (less than 50 fpm) provides improved ventilation effectiveness, allowing them to be assigned a value of 1.2 for E _z , rather than the previous value of 1.0. Related language in Table 6-2 was clarified.
62.1b (DA-24)					62.1b (2010)	Incorporated			Approved for publication in Denver in June 2013.	A change proposal submitted to ASHRAE pointed out to the SSPC that the requirements for the quality of water used in humidifiers and water-spray systems could potentially be misinterpreted. In response, changes to the wording of Sections 5.12 and 5.12.1 are being made that are intended to make it clear that chemicals may not be added to water that will be used in these systems, and that the water that is used must meet or exceed potable water quality standards. This requirement exists to reduce the risk of water treatment chemicals creating poor IAQ.
62.1c (DA-26)					62.1c (2010) Included in the 2011 Supplement	Incorporated			Published in the 2011 Supplement to 62.1-2010.	This addendum clarifies Section 5.9.2 regarding the conditions under which the ventilation system must be operated to provide exfiltration. It also changes the definition of “exfiltration” in Section 3 and modifies Section 6.2.7.1.4 to require compliance with 5.9.2, rather than restating requirements which may possibly become inconsistent with 5.9.2.
62.1d (DA-37)					62.1d (2010) Included in the 2011 Supplement	Incorporated			Published in the 2011 Supplement to 62.1-2010.	Exhaust rates are specified by Table 6-4 and no performance or demand controlled alternative exists in the standard. This addendum was drafted in response to a change proposal requesting that demand controlled exhaust systems be allowed for enclosed garages. The SSPC was not comfortable with specifying means of controlling such variable exhaust rates, but did conclude that it was appropriate to add an alternate exhaust rate design procedure that allows the designer a performance path.
62.1e (DA-40)					62.1e (2010) Included in	Incorporated			Published in the 2011 Supplement to 62.1-2010.	This addendum has been issued in response to a change proposal and is intended to clarify requirements for system control in Section 5.3 needed to assure that provided

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					the 2011 Supplement					ventilation rates meet the standard at all conditions.
62.1f (DA-32a)					62.1f (2010)				Recommended for 1 st publication public review by SSPC in Montreal in June 2011. Posted for public review 9/16/2011 to 10/16/2011. Received 1 comment from 1 commenter. SSPC accepted comment and approved 2 nd publication public review in Chicago in January 2012. Approved by SPLS 3/6/2012. Posted for public review 3/23/2012 to 4/22/2012. Received 1 comment from 1 commenter. SSPC will consider comment in San Antonio in June 2012. SSPC 62.1 voted to discontinue this addendum in San Antonio in June 2012. DISCONTINUED	Some users of Standard 62.1 believe that the ventilation rate procedure is “too complicated.” SSPC 62.1 disagrees with this in most cases – the basics of the V _{RP} are quite straightforward. However, the SSPC agrees that application of the multiple-zone recirculating system equations described in Section 6.2.5 and Appendix A can be complex. This proposed addendum provides an additional default value for V _{pz} . However, assumptions embodied in this simplification are necessarily conservative, and that resulting outdoor air intake flow rates will normally be higher than those that might be achieved using the existing procedures.
62.1g (DA-39)					62.1g (2010)				Recommended for 1 st publication public review by SSPC in Montreal in June 2011. Posted for public review 9/16/2011 to 10/31/2011. Received 1 comment from 1 commenter. Committee must address the comment. Based on comments and additional information the SSPC voted to discontinue this addendum in Chicago in January 2012. DISCONTINUED	Currently users are directed by Note 6 that for space types that are not listed in Table 6-1 they should select the space type from Table 6-1 that is most similar to the space being designed. However, some space types are actually ventilated using the exhaust ventilation requirements of Section 6.5 and Table 6-4. This proposed addendum adds language directing the user to select the space type that is most similar to the space in question from either Table 6-1 or 6-4, and to design the ventilation for the space according to the Section 6.2 or 6.5, as appropriate. Along with this proposed change, the guidance for determining the appropriate value for zone population, P _z , was moved ahead of Equation 6-1, allowing it to be referenced in the description of P _z , rather than having that description contain abbreviated guidance.
62.1h (DA-43)					62.1h (2010)	Incorporated			Approved for publication in San Antonio in June 2012.	Standard 62.1-2010, Table 6-1, includes ventilation rates for “Sports arena (play area)” and “Gym, stadium (play area).” Both space types have ventilation rates based on floor area only, the per person rate is zero. Users of the standard have expressed interest in applying demand controlled ventilation to these space types, which is effectively prohibited by the lack of a per person component to the ventilation rate. This proposed addendum replaces both of these space types with “Gym, Sports Arena (play area)”, with R _p = 20 cfm/person and R _a = 0.06 cfm/ft ² .
62.1i (DA-27)					62.1i (2010)				Recommended for 1 st advisory public review (APR) by SSPC 62.1 in Chicago in January 2012. Approved by SPLS 3/6/2012. Posted for public review	Recent studies have shown that excessively low humidity may result in unacceptable indoor air quality. This addendum is being sent out for advisory public review (APR) to obtain additional input from interested parties. In particular, the SSPC is interested in the appropriateness of the relative humidity limit and the climate zones where the

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	62-1999	62-2001	62.1-2004	62.1-2007	62.1-2010	62.1-2013	62.1-2016	62.1-2019			
										3/23/2012 to 4/22/2012. Received 13 comments from 13 commenters. SSPC will consider the comments in San Antonio in June 2012. SSPC 62.1 voted to discontinue this addendum in San Antonio in June 2012. DISCONTINUED	requirement applies. However, any other input is welcomed.
62.1j (DA-44)					62.1j (2010)	62.1j(2013)	Incorporated			Approved for publication Technology Weekend 2013.	This addendum adds requirements to the Indoor Air Quality Procedure (IAQP) for determining minimum ventilation rates which require consideration of the combined effects of multiple contaminants of concern on individual organ systems. This “additive” effect is already implicit in the Ventilation Rate Procedure. This proposed change is intended to improve the IAQP by requiring consideration of these additive effects that are well established in the literature for many organ systems. The change requires identifying those contaminants of concern which act on individual organs and identifying those contaminants as a “contaminant mixture of concern.” A new calculation is provided for determining whether a particular ventilation rate maintains the concentration of the mixture within acceptable limits. The addendum does not require that the list of contaminants of concern for a particular application be any different than it would be without the proposed change, nor will the individual concentration limits for those contaminants be any different. The only change is to consider a combined concentration for the mixture rather than to consider each contaminant individually.
62.1k (DA-45)					62.1k (2010)	62.1k(2013)	Incorporated			Approved for publication in Seattle in June 2014.	This addendum modifies the standard such that laboratory exhaust is assigned a default of Air Class 4, but explicitly allows a responsible EH&S professional to determine that a lower air class is appropriate for particular systems. If they assign a lower air class, then the use of heat wheel energy recovery would be allowed. The SSPC believes that determination of the appropriate air class is best made by a qualified professional on a case by case basis.
62.1l (DA-31)					62.1l (2010)	Incorporated				Approved for publication in San Antonio in June 2012.	Standard 62.1-2010, Table 6-1, includes ventilation rates for warehouses, which would apply to refrigerated warehouse. Refrigerated warehouse spaces are significantly different from conventional warehouses in a number of ways. The low temperatures will slow the emission of contaminants, such as VOCs, from the materials stored in the space, the characteristics of the items being stored will be different, and the amount of time spent in the space by occupants may be shorter (particularly for spaces kept at sub-freezing temperatures). This addendum adds a refrigerated warehouse space type to Table 6-1, providing revised ventilation rates for these spaces. These rates include a “People Outdoor Air Rate, R _p ” which will require ventilation during periods of expected occupancy, but do not include an “Area Outdoor Air Rate, R _a ” which will allow the ventilation rate to be zero for

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											refrigerated warehouses with no occupants. Note E to Table 6-1 is modified to indicate that if combustion powered equipment (e.g., a propane forklift) is used in the space, additional ventilation is required.
62.1m (DA-47)					62.1m (2010)	Incorporated				Approved for publication in Denver in June 2013.	This addendum adds the National Standards for Total System Balance issued by the Associated Air Balance Council (AABC) as an equivalent method of balancing ventilation systems in Section 7.2.2 of Standard 62.1. This standard is widely recognized for HVAC&R system balancing.
62.1n (DA-48)					62.1n (2010)	Incorporated				Proposed change CM 62.1-12-12-0004/001 approved for publication public review by SSPC 62.1 in San Antonio in June 2012. 30-day public review period from 9/14/2012 to 10/14/2012. Received 6 comments from 4 commenters. SSPC approved responses to comments in Dallas in January 2013. No unresolved comments. Approved for publication by StdC 4/2/2103, ASHRAE Board 4/15/2013 and ANSI 4/16/2013.	This addendum increases the filter requirements from MERV 6 to MERV 8. This will reduce the potential for particulate deposition on cooling coils that could lead to biological or other contamination on the coils. In addition, it brings the requirement inline with ANSI/ASHRAE/USGBC/IES Standard 189.1-2011, Standard for the Design of High-Performance Green Buildings.
62.1o (DA-48)					62.1o (2010)	Incorporated				Approved for publication in Denver in June 2013.	This addendum resulted from two very similar change proposals addressing reuse of air from toilet exhausts after it is cleaned. The original proposals would have redefined "air, exhaust" and allowed reuse of cleaned air that would otherwise be exhausted. The SSPC identified a number of difficulties with the original language, but agreed that limiting recirculated exhaust air to toilet exhaust only was workable.
62.1p (DA-46)					62.1p(2010)	62.1p(2013)	Incorporated			Approved for publication in Atlanta in June 2015.	At present, all occupancy types are required to provide no less than the area component of the minimum ventilation rate during periods when the space is "expected to be occupied." A previous interpretation clarified that this prohibited the use of occupancy sensors to reduce the ventilation rate to zero during these times. This addendum would allow the ventilation to be reduced to zero through the use of occupancy sensors (not through contaminant or CO ₂ measurements) for spaces of selected occupancy types. These occupancy types are identified by a new Note H to Table 6.2.2.1 (Minimum Ventilation Rates in Breathing Zone).
62.1q (DA52)					62.1q(2010)	62.1q(2013)	Incorporated			Approved for publication in Chicago in January 2015.	This addendum modifies Section 5.2 (Exhaust Duct Location) to clarify requirements by including air classes instead of descriptive language, and modifies the requirements by allowing positively pressurized exhaust ducts inside the space of origin.
62.1r (DA-54)					62.1r(2010)	62.1r(2013)	Incorporated			Approved for publication during Technology Weekend in October 2014.	This addendum modifies Sections 6.2.7.1.3, 6.2.7.1.4 and 6.2.7.1.5. The deletion in 6.2.7.1.3 removes the assumption that the Standard is intended for use only as calculations for code review and not physical operation. Sections 6.2.7.1.3 and 6.2.7.1.4 are combined to ensure the system minimum ventilation rates do not drop below the

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	62-1999	62-2001	62.1-2004	62.1-2007	62.1-2010	62.1-2013	62.1-2016			62.1-2019
									system exhaust rates under all load and dynamic reset conditions regardless of system operation.	
62.1s (DA-51)					62.1s(2010)	62.1s (2013)	Incorporated		Approved for publication in New York in January 2014.	This addendum modifies Table 6.5 (Minimum Exhaust Rates) to clarify confusing language related to locker and dressing rooms.
62.1a (DA-50)						62.1a (2013)	Incorporated		Approved for publication during Technology Weekend in October 2014.	Currently, ASHRAE Standard 62.1 has responsibility for multifamily residential buildings which are 4 stories or more and ASHRAE Standard 62.2 has responsibility for residential buildings 3 stories and less. The ventilation rates for dwelling units in Standard 62.1 are different from the rates in Standard 62.2 and this inconsistency has caused concern for some. Additionally, Standard 62.1 does not address modest retrofits whereas Standard 62.2 does. The retrofit market is a major user of ASHRAE ventilation standards. This addendum proposes a scope change which would do away with the building height threshold, bringing the dwelling units themselves into Standard 62.2 regardless of height while common areas would be covered by Standard 62.1. The change will allow for consistency across dwelling units and also allow application of ASHRAE ventilation standards to the multifamily retrofit market. A corresponding change to the scope of Standard 62.2 is also in process. These two scope changes must remain consistent with each other.
62.1b (DA-42)						62.1b(2013)	62.1b(2016)		1 st publication public review approved in Seattle in June 2014. 30-day public review period 9/5/2014 to 10/5/2014. Received 6 comments from 5 commenters. SSPC approved responses to comments in Chicago in January 2015. 2 nd public review required. 2 nd publication public review approved by letter ballot in July 2016. 45-day public review period 9/2/2016 to 10/17/2016. Received 7 comments from 2 commenters. 3 rd PPR approved by letter ballot 7/14/2017. 30-day public review period 9/8/2017 to 10/8/2017. Received 6 comments from 4 commenters. In process.	This proposed addendum responds to increasing requests for more simplified table for ventilation rate procedure of the standard. It contains two parts: (1) a new simplified ventilation rate table in Normative Appendix C for use in small buildings and where complex calculations are not desired and (2) a simplified ventilation rate table in Informative Appendix D for use in existing buildings where information for calculating minimum ventilation using Normative Appendix A for multiple spaces is often unavailable.
62.1c						62.1c(2013)	Incorporated		Approved for publication in Chicago in January 2015.	This addendum revises the current definition of ETS to include emissions from electronic smoking devices and from smoking of cannabis. The existing requirements for separation of ETS-free spaces from ETS spaces remain unchanged. It also clarifies the intent of the standard that provision of acceptable indoor air quality is incompatible with the presence of ETS, including cannabis smoke and e-cigarette emissions. The

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	62-1999	62-2001	62.1-2004	62.1-2007	62.1-2010	62.1-2013	62.1-2016	62.1-2019			
										ventilation rates determined in accordance with the provisions of the standard apply only to spaces where these emissions are not present and which are adequately separated from spaces where they are present.	
<i>62.1d</i>									Incorporated	Approved for publication in Atlanta in June 2015.	This addendum adds an exception to Section 5.8 (Particulate Matter Removal). In sensible-only cooling (i.e. sensible-only chilled beams) the equipment's purpose is to provide only sensible cooling. In this case the coil surface would never be wet and the filtration requirements intended for wetted surfaces should not apply. Latent cooling for these systems would be provided by other portions of the system, such as cooling coils in the primary air stream, which would then have independent upstream air filtration.
<i>62.1e</i> <i>(DA-53)</i>									Incorporated	Approved for publication in Orlando in January 2016.	This addendum modifies Section 8, Operation and Maintenance, incorporating calibration requirements for airflow monitoring sensors and systems. The requirements in Table 8.4.1 (Minimum Maintenance Activity and Frequency) were initially based on requirements in ASHRAE/ACCA Standard 180-2012, Standard Practice for Inspection and Maintenance of Commercial-Building HVAC Systems, although the SSPC has modified some of those requirements.
<i>62.1f</i> <i>(DA-56)</i>									Incorporated	Approved for publication in Orlando in January 2016.	In preparation for publication of Standard 62.1-2016, this addendum updates the normative references included in the Standard. This process includes reviewing the references to ensure that their content has not been changed such that they should no longer be referenced and that they are written in normative language. References that are not in normative language are being moved to a new Informative Bibliography. In some cases, the language of the Standard where these documents are referenced needs to be modified. In particular, changes to the notes to Table 5.5.1 are made to avoid referencing non-normative documents and to improve the normative language used.
<i>62.1g</i>									Incorporated	Approved for publication in Orlando in January 2016.	This addendum is from a change proposal submitted from outside the SSPC. The proposer pointed out that the addendum provided an exception which essentially allows coils which are very difficult to clean as long as "instructions for . . . cleaning" are provided. The SSPC agrees that providing instructions does not make cleaning these coils any more feasible, and therefore the exception should be deleted.
<i>62.1h</i> <i>(DA-59)</i>									Incorporated	Approved for publication in Orlando in January 2016.	The changes to the standard in this addendum are for the purpose of complying with ASHRAE's mandatory language policy for standards. The changes are intended to clarify the requirements and reduce ambiguity in interpretation and enforcement. Many of these changes will change requirements of the standard.
<i>62.1i</i> <i>(DA-60)</i>									Incorporated	Approved for publication in Orlando in January 2016.	This addendum changes Appendix F (Separation of Exhaust Outlets and Outdoor Air Intakes) from informative to normative. This addendum is for the purpose of making language in the standard mandatory in compliance with current ASHRAE requirements.
<i>62.1a</i> <i>(DA-61)</i>										1 st publication public review approved by letter ballot in August 2016. 30-day public review period 9/2/2016 to	This proposed addendum changes design requirements for drain pan size. It eliminates a non-standard requirement and provides a design performance requirement.

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									10/2/2016. Received 3 comments from 1 commenter. In process.	
<i>62.1c</i> <i>(DA-62)</i>							<i>62.1c(2016)</i>		1 st PPR approved by letter ballot 7/10/2017. 45-day public review period 9/8/2017 to 10/23/2017. Received 1 comment. In process.	Delete Informative Appendix C
<i>62.1d</i> <i>(DA-63)</i>							<i>62.1d(2016)</i>		1 st PPR approved by letter ballot 7/31/2017. 30-day public review period 9/8/2017 to 10/8/2017. No comments. Publication approval expected in Chicago in January 2018. In process.	Delete Informative Appendix D
<i>62.1e</i> <i>(DA-64)</i>							<i>62.1e(2016)</i>		1 st PPR approved by letter ballot 7/18/2017. 45-day public review period 9/8/2017 to 10/23/2017. Received one Supportive comment. Publication approval is expected in Chicago in January 2018. In process.	Revise Informative Appendix F and delete Informative Appendix I
<i>62.1f</i> <i>(DA-65)</i>							<i>62.1f(2016)</i>		1 st PPR approved by letter ballot 7/31/2017. 30-day public review period 9/8/2017 to 10/8/2017. Received 7 comments from 6 commenters. In process.	Simplified VRP

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