



**CSA Z317.2:24**  
National Standard of Canada



# Special requirements for heating, ventilation, and air-conditioning (HVAC) systems in health care facilities



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# Preface

This is the sixth edition of CSA Z317.2, *Special requirements for heating, ventilation, and air-conditioning (HVAC) systems in health care facilities*, one of a series of Standards on the design, construction, and maintenance of health care facilities and systems. It supersedes the previous editions, published in 2019, 2015, 2010, 2001, and 1991.

This Standard is intended for use by architects, engineers, planners, consultants, and health care facility staff to ensure the efficient planning, design, construction, and maintenance of HVAC systems. In addition to design and construction requirements, this Standard includes commissioning, operational, maintenance, and monitoring requirements for HVAC systems that will reduce the risk of transmission of infection among building occupants, including patients, staff, and visitors. Significant changes in this edition include the following:

- a) clarification of HVAC requirements for rooms and areas used for similar or different functions, including more stringent requirements for areas in a facility used for more than one function;
- b) additional guidance on HCFs providing services when outdoor conditions are extreme and when indoor conditions are outside of the HVAC design ranges;
- c) new guidelines on portable air handling units;
- d) updated guidance on adiabatic humidification systems;
- e) revisions for HVAC system upgrades associated with renovations or additions;
- f) guidance on catastrophic HVAC equipment failure in alignment with the requirements of business continuity in CSA Z8000;
- g) addition of Table 7 to show the breakdown of requirements in Clause 6, as per HCF classification;
- h) expansion of molecular filtration requirements, as per Table 6;
- i) updated requirements in Table 1; and
- j) updated examples of health care facilities according to class in Annex B.

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This Standard was prepared by the Subcommittee on Special Requirements for HVAC Systems in Health Care Facilities, under the jurisdiction of the Technical Committee on Health Care Facilities and the Strategic Steering Committee on Health and Well-being, and has been formally approved by the Technical Committee.

This Standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

## Notes:

- 1) *Use of the singular does not exclude the plural (and vice versa) when the sense allows.*
- 2) *Although the intended primary application of this Code is stated in its Scope, it is important to note that it remains the responsibility of the users of the Code to judge its suitability for their particular purpose.*
- 3) *This Code was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this Code.*