



**BSR/ASHRAE/ASHE Addendum k  
to ANSI/ASHRAE/ASHE Standard 170-2021**

**Public Review Draft**

**Proposed Addendum k to  
Standard 170-2021, Ventilation of  
Health Care Facilities**

**First Public Review (August 2023)**  
**(Draft shows Proposed Changes to Current Standard)**

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**(This foreword is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)**

## FOREWORD

*The proposed addendum clarifies that this section applies to the central systems that provide cooling or heating by changing the name of the section. It adds requirement for cooling reserve capacity in addition to the heating reserve capacity for spaces already listed in this section. This provides guidance to designers to a minimum reserve capacity required to start with and engage with the facility on what their operational needs are. The addendum also takes out the onsite fuel requirement from 6.1.2.1 so that the exception to 6.1.2.1 does not apply to it anymore. Its added back in 6.1.2.2 as its own requirement. The addendum removes the lower limit of 400 ton cooling load as the starting point for considering any reserve capacity for cooling in Inpatient and Residential Health Care facilities.*

*[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.]*

## Addendum k to 170-2021

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*Revise Section 6.1.2 as shown below.*

### 6.1.2 Heating and Cooling Sources Central Systems

~~6.1.2.1 Provide heat sources and essential accessories in number and arrangement sufficient to accommodate the facility needs (reserve capacity), even when any one of the heat sources or essential accessories is not operating due to a breakdown or routine maintenance. The capacity of the remaining source or sources~~ The minimum heating and cooling reserve design capacity shall be sufficient to provide for domestic hot water, sterilization, and dietary purposes and to provide heating required to meet the environmental conditions as prescribed in this standard for operating, delivery, birthing, labor, recovery, emergency, intensive care, nursery, and resident care areas and inpatient/ resident rooms. Fuel sufficient to support the owner's facility operation plan upon loss of fuel service shall be provided on site.

- a. Provide heating, cooling sources and essential accessories (see definition) in number and arrangement sufficient to accommodate the facility needs (for reserve design capacity), even when any one of these sources or essential accessories is not operating due to breakdown or routine maintenance.
- b. Reserve design capacity shall include equipment, accessories, and the controls necessary to ensure safe and reliable operation to support the owner's operation plan.

**Exception to 6.1.2.1:** Reserve capacity is not required if the ASHRAE 99% heating dry-bulb temperature for the facility is greater than or equal to 25°F (−4°C).

~~**6.1.2.2 Inpatient and Residential Health Care Spaces.** For central cooling systems greater than 400 tons (1407 kW) peak cooling load, the number and arrangement of cooling sources and essential accessories shall be sufficient to support the owner's facility operation plan upon a breakdown or routine maintenance of any one of the cooling sources.~~

**6.1.2.2:** Provide onsite fuel storage to ensure facility operation upon loss of primary energy source based on the facility operational plan.

***Informative Note:*** Facilities that use steam for building heating and domestic hot water production shall evaluate water storage capacity based on their operational plan.