



ADDENDA

**ANSI/ASHRAE Addendum i to
ANSI/ASHRAE Standard 30-2019**

Method of Testing Liquid Chillers

Approved by ASHRAE and the American National Standards Institute on December 31, 2024.

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ASHRAE Standing Standard Project Committee 30

Cognizant TCs: 8.2 (Lead), Centrifugal Machines, and 8.5, Liquid-to-Refrigerant Heat Exchangers

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FOREWORD

Addendum i shows revisions to the purpose and scope statements of ANSI/ASHRAE Standard 30-2019. The subtle change in the purpose statement reflects the current title and scope of the standard, which includes liquids other than water that may be cooled or heated. The changes to the scope are to harmonize with AHRI Standard 550/590-2023 and Standard 551/591-2023, which define the method of ratings for chillers capable of simultaneously providing both cooling and heating functions. This standard, including the revisions in Addendum c to the 2019 edition, provides the method of test whether the chiller is in cooling mode, heating mode, or any hybrid mode that provides both cooling and heating. The revisions also permit the next edition of this standard to include method-of-test requirements for adiabatically cooled forms of heat rejection, which are also included in Addendum c to the 2019 edition.

Informative 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 30-2019

Modify Sections 1 and 2 as shown. The remainder of Section 2 is unmodified.

1. PURPOSE

1.1 The purpose of this standard is to prescribe methods of testing to measure the thermal capacity, energy efficiency, and ~~water~~liquid pressure drop of packaged liquid-chiller equipment using a refrigerant vapor compression cycle.

1.2 This standard does not specify methods of establishing published ratings or performance tolerances.

2. SCOPE

~~2.1 This standard applies to liquid chilling or liquid heating packaged equipment using any type of compressor, and using the following methods of heat rejection during the cooling cycle:~~

- a. ~~Air cooled~~
- b. ~~Evaporatively cooled~~
- c. ~~Water cooled~~

2.1 This standard applies to the following packaged equipment using any type of compressor:

- a. Liquid chilling
- b. Liquid heating
- c. Simultaneous liquid chilling and liquid heating

2.1.1 Using the following methods of heat rejection during the cooling cycle or heat absorption during the heating cycle:

- a. Air cooled
- b. Adiabatically cooled
- c. Evaporatively cooled
- d. Liquid cooled

[. . .]

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ASHRAE is concerned with the impact of its members' activities on both the indoor and outdoor environment. ASHRAE's members will strive to minimize any possible deleterious effect on the indoor and outdoor environment of the systems and components in their responsibility while maximizing the beneficial effects these systems provide, consistent with accepted Standards and the practical state of the art.

ASHRAE's short-range goal is to ensure that the systems and components within its scope do not impact the indoor and outdoor environment to a greater extent than specified by the Standards and Guidelines as established by itself and other responsible bodies.

As an ongoing goal, ASHRAE will, through its Standards Committee and extensive Technical Committee structure, continue to generate up-to-date Standards and Guidelines where appropriate and adopt, recommend, and promote those new and revised Standards developed by other responsible organizations.

Through its *Handbook*, appropriate chapters will contain up-to-date Standards and design considerations as the material is systematically revised.

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