ANSI/AHRI Standard 495-2005 (Formerly ARI Standard 495-2005)

2005 Standard for Performance Rating Of Refrigerant Liquid Receivers





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IMPORTANT

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Note:

This standard supersedes ARI Standard 495-99.



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AHRI STANDARD 495-2005

PERFORMANCE RATING OF REFRIGERANT LIQUID RECEIVERS

Section 1. Purpose

- **1.1** *Purpose.* The purpose of this standard is to establish for Refrigerant Liquid Receivers: definitions; rating requirements; minimum data requirements for Published Ratings; marking and nameplate data; and conformance conditions.
 - **1.1.1** *Intent.* This standard is intended for the guidance of the industry, including manufacturers, engineers, installers, contractors and users.
 - 1.1.2 Review and Amendment. This standard is subject to review and amendment as technology advances.

Section 2. Scope

2.1 Scope. This standard applies to separately installed Refrigerant Liquid Receivers for field-erected systems only.

Section 3. Definitions

All terms in this document shall follow the standard industry definitions in the current edition of ASHRAE Terminology of Heating, Ventilation, Air Conditioning and Refrigeration, unless otherwise defined in this section.

- **3.1** Published Rating. A statement of the assigned values of those performance characteristics, under stated Rating Conditions, by which a unit may be chosen to fit its application. These values apply to all units of like nominal size and type (identification) produced by the same manufacturer. The term Published Rating includes the rating of all performance characteristics shown on the unit or published in specifications, advertising or other literature controlled by the manufacturer, at stated Rating Conditions.
 - **3.1.1** *Application Rating*. A rating based on tests performed at application Rating Conditions (other than Standard Rating Conditions).
 - **3.1.2** Standard Rating. A rating based on tests performed at Standard Rating Conditions.
- **3.2** *Rating Conditions.* Any set of operating conditions under which a single level of performance results and which causes only that level of performance to occur.
 - **3.2.1** Standard Rating Conditions. Rating Conditions used as the basis of comparison for performance characteristics.
- **3.3** *Refrigerant Liquid Receiver.* A vessel in a refrigerating system designed to ensure the availability of adequate liquid refrigerant for proper functioning of the system, and to store the liquid refrigerant when the system is pumped down.
- 3.4 "Shall" or "Should"." "Shall" or "Should" shall be interpreted as follows:
 - **3.4.1** *Shall.* Where "shall" or "shall not" is used for a provision specified, that provision is mandatory if compliance with the standard is claimed.
 - **3.4.2** Should. "Should" is used to indicate provisions which are not mandatory but which are desirable as good practice.

Section 4. Rating Requirements

4.1 Rating Requirements. Capacity ratings for Refrigerant Liquid Receivers shall be determined with the maximum being 80% of the gross internal volume of the receiver, expressed in ft³ [m³] or expressed in lb [kg], of any specified refrigerant, assuming saturated liquid refrigerant density (ASHRAE Handbook Fundamentals) at 90°F [32 °C].