

AHRI Standard 610 (I-P)

**2014 Standard for
Performance Rating
Of Central System
Humidifiers for Residential
Applications**



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Note:

This standard supersedes ANSI/AHRI Standard 610-2004.
For SI ratings, see AHRI Standard 611 (SI)-2014.

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PERFORMANCE RATING OF RESIDENTIAL CENTRAL SYSTEM HUMIDIFIERS FOR RESIDENTIAL APPLICATIONS

Section 1. Purpose

1.1 Purpose. The purpose of this standard is to establish for Residential Central System Humidifiers: definitions; classifications; test requirements; rating requirements; minimum data requirements for Published Ratings; operating requirements; 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 factory-made Central System Humidifiers, as defined in Section 3.

2.1.1 Energy Source. This standard applies to electrically operated Central System Humidifiers that depend on the air stream of a central air system for moisture evaporation and distribution.

2.1.2 Installation. Central System Humidifiers are intended for installation in central air systems.

2.2 Exclusions. This standard does not apply to the following:

2.2.1 Self-contained Humidifiers as defined in ANSI/AHRI Standard 620

2.2.2 Portable Humidifiers as defined in ANSI/AHAM HU-1

2.2.3 Humidifiers for commercial and industrial applications as defined in ANSI/AHRI Standard 640

Section 3. Definitions

All terms in this document will follow the standard industry definitions in the ASHRAE Wikipedia website (<http://wiki.ashrae.org/index.php/ASHRAEWiki>) unless otherwise defined in this section.

3.1 Humidification Capacity. The capacity of a Central System Humidifier to add moisture to air expressed in gal/day of continuous operation.

3.2 Humidifier. A device designed to add moisture to air.

3.2.1 Central System Humidifier (Humidifier). A class of Humidifier intended to be installed in or to discharge into the air stream of a central air system. It may be mounted in or on one of the following:

3.2.1.1 Return Air Duct (RD). A Humidifier that is connected to a horizontal duct and has the function of returning humidified air to the central system.

3.2.1.2 Return Air Plenum (RP). A Humidifier that is connected to a vertical duct and has the function of returning humidified air to the central system.