

AHRI Standard 1361 (SI)

2017 Standard for
**Performance Rating of
Computer and Data
Processing Room
Air Conditioners**



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IMPORTANT

SAFETY DISCLAIMER

AHRI does not set safety standards and does not certify or guarantee the safety of any products, components or systems designed, tested, rated, installed or operated in accordance with this standard/guideline. It is strongly recommended that products be designed, constructed, assembled, installed and operated in accordance with nationally recognized safety standards and code requirements appropriate for products covered by this standard/guideline.

AHRI uses its best efforts to develop standards/guidelines employing state-of-the-art and accepted industry practices. AHRI does not certify or guarantee that any tests conducted under the standards/guidelines will not be non-hazardous or free from risk.

Note:

This 2017 standard supersedes ANSI/AHRI Standard 1361 (SI)-2016.

For I-P ratings, see AHRI Standard 1360 (I-P)-2017.

AHRI CERTIFICATION PROGRAM PROVISIONS

The current scope of the Datacom Cooling (DCOM) Certification Programs can be found on AHRI website www.ahrinet.org. The scope of the Certification Programs should not be confused with the scope of the standard, as the standard also includes ratings for products that are not covered by a certification program.

TABLE OF CONTENTS

| SECTION | PAGE |
|--|------|
| Section 1. Purpose | 1 |
| Section 2. Scope | 1 |
| Section 3. Definitions | 1 |
| Section 4. Classification | 5 |
| Section 5. Test Requirements | 6 |
| Section 6. Rating Requirements | 7 |
| Section 7. Minimum Data Requirements for Published Ratings | 11 |
| Section 8. Operating Requirements | 12 |
| Section 9. Marking and Nameplate Data | 12 |
| Section 10. Conformance | 12 |

TABLES

| | |
|---|----|
| Table 1. Classification of Computer and Data Processing Room Air Conditioners | 5 |
| Table 2. Indoor Return Air Temperature Standard Rating Conditions | 8 |
| Table 3. Heat Rejection / Cooling Fluid Standard Rating Conditions | 8 |
| Table 4. Minimum External Static Pressure Standard Rating Conditions | 9 |
| Table 5. Uncertainty Allowances..... | 10 |
| Table 6. Published Ratings | 11 |

FIGURES

| | |
|--|---|
| Figure 1. Limited Height Test Chamber Upflow Unit Test Duct..... | 6 |
|--|---|

APPENDICES

| | | |
|-------------|---|----|
| Appendix A. | References – Normative..... | 13 |
| Appendix B. | References – Informative..... | 14 |
| Appendix C. | Standard Models - Normative..... | 15 |
| Appendix D. | Integrated Net Sensible COP Rating - Informative..... | 19 |

TABLES FOR APPENDICES

| | | |
|-----------|---|----|
| Table C1. | Ceiling Mounted Standard Model Airflow Configurations | 15 |
| Table C2. | Floor Mounted Standard Model Airflow Configurations | 16 |
| Table D1. | Cooling Fluid Reduced Ambient Rating Conditions | 20 |

FIGURES FOR APPENDICES

| | | |
|--------------|---|----|
| Figure C1.1. | Ceiling Mounted Unit–ducted | 15 |
| Figure C1.2. | Ceiling Mounted Unit–nonducted..... | 15 |
| Figure C2.1. | Downflow Unit..... | 16 |
| Figure C2.2. | Horizontal-flow Unit | 16 |
| Figure C2.3. | Upflow Unit–ducted or Upflow Unit–nonducted | 16 |

PERFORMANCE RATING OF COMPUTER AND DATA PROCESSING ROOM AIR CONDITIONERS

Section 1. Purpose

1.1 *Purpose.* The purpose of this standard is to establish for Computer and Data Processing Room Air Conditioners (CDPR): definitions; classification; test requirements; 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, users, and regulators.

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 Floor Mounted and Ceiling Mounted Computer and Data Processing Room Air Conditioners as defined in Section 3.

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

2.2.1 Rating and testing of individual assemblies, such as condensing units or coils, for separate use.

2.2.2 Unitary air-conditioners and unitary heat pumps as defined in AHRI Standard 210/240 and AHRI Standard 340/360.

2.2.3 Variable refrigerant flow multi-split air conditioners and heat pumps as defined in AHRI Standard 1230.

2.2.4 Single package vertical air conditioners and heat pumps rated using ANSI/AHRI Standard 390.

2.2.5 Packaged terminal air-conditioners and heat pumps rated using AHRI Standard 310/380.

Section 3. Definitions

All terms in this document will follow the standard industry definitions in the *ASHRAE Terminology website* (<https://www.ashrae.org/resources--publications/free-resources/ashrae-terminology>) unless otherwise defined in this section.

3.1 *Application Configurations.* Variations of Standard Models shall be tested and rated as Standard Models. Refer to Tables C1 and C2.

3.2 *Ceiling Mounted Unit.* A type of CDPR designed and marketed to be installed above a dropped ceiling inside the building. These have one airflow direction through the unit (horizontal) and multiple airflow connections.

3.2.1 *Connections.*

3.2.1.1 *Discharge from Unit.*

3.2.1.1.1 *Ducted Discharge.* A unit which discharges air into attached field installed ductwork.

3.2.1.1.2 *Free Air Discharge.* A unit with a factory installed integral grill or a field installed factory grill or plenum which does not have field installed ductwork attached.

3.2.1.2 *Return to Unit.*