International Standard

ISO 19967-2

Air to water heat pumps — Testing and rating for performance —

Part 2: Space heating and/or space cooling

Pompes à chaleur air/eau — Essais et classification des performances —

Partie 2: Chauffage des locaux et/ou refroidissement des locaux

Second edition
2024-05

Reference number
ISO 19967-2:2024(en)

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 86, *Refrigeration and air-conditioning*, Subcommittee SC 6, *Testing and rating of air-conditioners and heat pumps*.

This second edition cancels and replaces the first edition (ISO 19967-2:2019), which has been technically revised.

The main changes are as follows:

— the title has been changed;

— terms and definitions have been added and clarified;

— test conditions have been defined and added for space cooling and/or space heating;

— the installation of test item (object) of several parts has been clarified;

— the test report information has been updated;

— the maximum and minimum operation annex has been deleted.

A list of all parts in the ISO 19967 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Air to water heat pumps — Testing and rating for performance —

Part 2: Space heating and/or space cooling

1 Scope

This document specifies test conditions and test procedures for determining the performance characteristics of air to water heat pumps for space heating and/or space cooling with electrically driven compressors with or without supplementary heater. The purpose of this document is to rate the performance of the air to water heat pumps for space heating and/or space cooling.

In the case of air to water heat pumps for space heating and/or space cooling consisting of several parts with refrigerant or water connections, this document applies only to those designed and supplied as a complete package. This document does not apply to large chiller or large liquid chilling package for space cooling and/or heating.

This document does not apply to air to water heat pumps not intended for human comfort.

NOTE Testing procedures for simultaneous operation for hot water supply and space heating and/or space cooling are not treated in this document. Simultaneous means that hot water supply and space heating and/or space cooling generation occur at the same time and can interact.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
air to water heat pumps
heat pump which consists of one or more factory-made assemblies which normally include at least space side refrigerant to water heat exchanger(s) (load side), electrically driven compressor(s), and outdoor-side air-to-refrigerant heat exchanger(s) (source side), including means to provide space heating and/or space cooling functions

Note 1 to entry: It can include a supplementary heater for space heating.

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