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Non-ducted portable air-cooled air conditioners and air-to-air heat pumps having a single exhaust duct — Testing and rating for performance

*Climatiseurs refroidis par air et pompes à chaleur portables
non raccordés à simple conduit — Essais et détermination des
caractéristiques des performances*



Reference number
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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 documents 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 on 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 the following URL: 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*.

Introduction

Single duct portable air conditioners and heat pumps can be selected for their ease and rapidity of use, handling and installation, in particular when the use of other categories of air conditioners is not convenient or forbidden, for example in rented or holiday houses or in historical buildings where an external unit cannot be placed outdoors.

The operational mode and features of such appliances are quite different from those of the well-known non-ducted air conditioners and heat pumps largely diffused worldwide and covered by ISO 5151.

There are presently no internationally recognized standards for single duct portable air conditioners and heat pumps. The economic operators involved in the production and distribution of such products face significant problems in verifying and declaring performance and energy consumption data in an objective and internationally recognized way.

This being considered, ISO/TC 86/SC 6 decided to prepare a specific standard for single duct portable air conditioners and heat pumps.

During the discussion of its contents it was acknowledged that it is necessary to provide the users with information on the specific characteristics of single duct portable air conditioners and heat pumps, on their correct installation and on their use. This will be covered by a future Amendment to this document which is currently under discussion.