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Compressed-air dryers — Specifications and testing

Sécheurs à air comprimé — Spécifications et essais

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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.

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 7183 was prepared by Technical Committee ISO/TC 118, *Compressors and pneumatic tools, machines and equipment*, Subcommittee SC 4, *Quality of compressed air*.

This second edition of ISO 7183 revises and replaces the first edition (ISO 7183:1986), together with ISO 7183-2:1996, which have been technically revised.

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Introduction

The scope has been expanded to cover most current types of dryers but also to allow the use of this International Standard and its test methods for any emerging technologies. Any new technologies can then be incorporated at a later revision.

Exclusions to this International Standard are generally identified by reference to the definition of a dryer. Specific exclusions have been identified, however, for absorption dryers and dryer processes involving “over-compression” as the means of removing water from compressed air.

The process of over-compression employs the principle that water can be removed by compressing the air to a pressure higher than the intended working pressure thereby forcing out the water from the compressed air and then subsequently expanding the air back to the working pressure.

Absorption dryers are now considered to be of minor importance as a drying technique and are, therefore, not considered in this International Standard.

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