
**Turbocompressors — Performance
test code — Simplified acceptance test**

*Turbocompresseurs — Code d'essais des performances — Essai de
réception simplifié*

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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 committee responsible for this document is ISO/TC 118, *Compressors and pneumatic tools, machines and equipment*, Subcommittee SC 6, *Air compressors and compressed air systems*.

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Introduction

ISO 5389 is the primary International Standard for performance statements of dynamic compressors of all types.

For electrically driven packaged air compressors of standard types, which are constructed to specifications determined by the manufacturer, and which are sold against performance data published in the manufacturer's sales documentation, ISO 5389 provides for demanding conditions to be met for such standard packages.

To allow performance statements to be made for standard types, this simplified code has been developed where the performance statement can be given based on specified test conditions (see [Table 1](#)), where the key measured variables are maintained within identified test limitations (see [Table 2](#)).

The performance statement is valid, provided it is within the identified acceptance allowances (see [Table 3](#)) for volume flow rate, specific power consumption, and unloaded power consumption.

Whereas ISO 5389 addresses any type of dynamic compressor, this simplified International Standard addresses centrifugal compressors only which are of the fixed speed type and are electrically driven packaged air compressors. It is envisaged that at a later date, variable speed types will also be included.

This International Standard will ultimately become an annex of ISO 5389 once sufficient experience has been gained from its use in the field. In its current form, it complements ISO 5389 for standard packages, but where acceptance tests are required to demonstrate fulfilment of the order conditions and guarantees specified by the client in a supply contract, then ISO 5389 is still the primary reference International Standard.

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