BS ISO 18740:2016

BSI Standards Publication

Turbocompressors — Performance test code — Simplified acceptance test

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National foreword

This British Standard is the UK implementation of ISO 18740:2016.

The UK participation in its preparation was entrusted to Technical Committee MCE/8/-/1, Compressors - Safety.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Contents

Page

Foreword ... **iv**
Introduction ... **v**
1 Scope ... **1**
2 Normative references ... **1**
3 Terms and definitions ... **1**
4 Symbols ... **3**
4.1 Symbols and units ... 3
4.2 Subscripts ... 3
5 Test conditions, limitations and allowances ... **3**
5.1 General ... 3
5.2 Multi-stage compressor — Operational limitations ... 4
5.3 Performance acceptance allowances ... 4
6 Measuring methods ... **4**
6.1 Measurement of volume flow rate at standard discharge point (package) ... 4
6.2 Method of determining condensate rate ... 5
6.2.1 Condensate correction ... 5
6.2.2 Collection and measurement of condensate ... 5
6.2.3 Measurement of compressor power input ... 5
6.3 Measurement of shaft speed ... 5
7 Test procedure and report ... **5**
7.1 Preliminary tests ... 5
7.2 Preliminary test and acceptance test ... 5
7.3 Adjustments ... 5
7.4 Readings ... 5
7.5 Test report ... 6
8 Computation of test results ... **6**
8.1 General ... 6
8.2 Volume flow rate ... 6
8.2.1 Volume flow rate correction ... 6
8.2.2 Influence of speed, temperatures, pressures, humidity ... 6
8.2.3 Condensate formation correction factor ... 7
8.3 Specific power consumption correction ... 7
8.3.1 Inlet pressure correction ... 8
8.3.2 Pressure ratio correction ... 8
8.3.3 Cooling water temperature correction ... 8
8.4 Packaged compressor power input ... 8
Annex A (informative) **Example test report** ... **9**
Bibliography ... **11**

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Foreword

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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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