ISO 7183:2007-12 (E)

Compressed-air dryers - Specifications and testing

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 2

3 Terms and definitions 2

4 Symbols 4
4.1 Figure symbols 4
4.2 Symbols and units 4
4.3 Subscripts 5

5 Reference conditions 5

6 Standard rating parameters 5

7 Performance tests 6
7.1 Key performance parameters 6
7.2 Pressure dew point, flow rate and outlet temperature 6
7.3 Differential pressure drop 8
7.4 Power consumption 8
7.5 System air loss 9
7.6 Dealing with in-cycle variations 12
7.7 Noise 13
7.8 Tests for energy saving devices 13
7.9 Instrument accuracy 13

8 Uncertainties 14

9 Test report 14
9.1 Statement 14
9.2 Technical data 15

Annex A (informative) Types of compressed-air dryers 16

Annex B (informative) Report form for dryer performance 17

Annex C (normative) Noise measurement 18

Annex D (informative) Pressure-measuring tubes 19

Bibliography 21