

DIN EN ISO 2151:2009-01 (E)

Acoustics - Noise test code for compressors and vacuum pumps - Engineering method (grade 2) (ISO 2151:2004)

Contents

	Page
Foreword	3
Introduction.....	4
1 Scope.....	5
2 Normative references.....	6
3 Terms and definitions	6
4 Sound power level determination.....	9
4.1 General	9
4.2 Uncertainty.....	10
4.3 Test arrangement	10
5 Emission sound pressure level determination at the work station	11
5.1 Work station.....	11
5.2 Determination of L_pWSA from L_{WA}	12
5.3 Method for determination of L_pWSA when L_{WA} is not to be determined	13
6 Mounting, loading and operating conditions of compressor or vacuum pump during noise tests.....	13
6.1 General	13
6.2 Mounting	13
6.3 Loading and operating conditions	13
7 Test report.....	14
8 Declaration and verification of noise emission values	14
Annex A (informative) Example test reports	15
Annex B (informative) Model form for declared noise emission values	21
Annex C (normative) Parallelepiped measurement surface.....	22
Annex D (normative) Hemispherical measurement surface.....	24
Annex E (informative) Examples of reference box for different machines	26
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 98/37 EEC	29
Annex ZB (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC	30
Bibliography.....	31

