

DIN EN 15503:2010-09 (E)

Garden equipment - Garden blowers, vacuums and blower/vacuums - Safety

Contents		Page
Foreword		4
Introduction		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	7
4	List of significant hazards	8
5	Safety requirements and/or protective measures	10
5.1	General	10
5.2	All machines	10
5.3	Hot parts guarding	10
5.4	Casing strength and rigidity	11
5.4.1	Requirements	11
5.4.2	Casing strength and rigidity test of hand-held and backpack powered machines	11
5.5	Structural integrity of vacuums	11
5.5.1	Requirements	11
5.5.2	Structural integrity test	11
5.6	Handles and controls	12
5.6.1	Controls	12
5.6.2	Handles	12
5.6.3	Harness for machines other than those with back-pack power unit	13
5.7	Starting device	13
5.8	Noise	13
5.8.1	Reduction by design and protective measures	13
5.8.2	Reduction by information	14
5.8.3	Noise emission measurement	14
5.9	Vibration	14
5.9.1	Reduction by design and protective measures	14
5.9.2	Reduction by information	14
5.9.3	Vibration measurement	14
5.10	Protection from exhaust fumes	14
5.11	Electrical requirements	14
5.11.1	General	14
5.11.2	Ignition circuit	14
5.12	Fuel tank openings	15
5.13	Additional requirements for back-pack powered units	15
5.13.1	Handgrip	15
5.13.2	Back-pack support and harness	15
6	Information for use	15
6.1	Instruction handbook	15
6.2	Marking	17
6.3	Warnings	17
6.4	Durability of markings and warnings	18
Annex A (normative)	Noise test code - Engineering method (Grade 2 of accuracy)	19

A.1	General	19
A.2	Machine conditions	19
A.3	Mounting and orientation of the machine	19
A.4	Test procedure	21
A.5	Information to be reported	22
A.6	Declaration of noise emission data	25
Annex B (normative) Measurement of vibration values at the handles		26
B.1	General	26
B.2	Measurement direction and location	26
B.3	Adjustment of the machine before test	26
B.4	Test procedure	27
B.5	Information to be reported	27
B.6	Declaration and verification of vibration values	29
Annex C (informative) Examples of safety signs General		31
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 98/37/EC		32
Annex ZB (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC		33
Bibliography		34