

---

---

**Tractors and self-propelled machines for  
agriculture and forestry — Operator  
enclosure environment —**

**Part 5:  
Pressurization system test method**

*Tracteurs et machines automotrices pour l'agriculture et la sylviculture —  
Ambiance dans l'enceinte de l'opérateur —*

*Partie 5: Méthode d'essai du système de pressurisation*



## 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 14269-5 was prepared by Technical Committee ISO/TC 23, *Tractors and machines for agriculture and forestry*, Subcommittee SC 2, *Common tests*.

This first edition, along with the other parts of ISO 14269, cancels and replaces ISO 3737:1976, ISO 6097:1989 and ISO/TR 8953:1987, which have been technically revised.

ISO 14269 consists of the following parts, under the general title *Tractors and self-propelled machines for agriculture and forestry — Operator enclosure environment*:

- *Part 1: Vocabulary*
- *Part 2: Heating, ventilation and air-conditioning test method and performance*
- *Part 3: Determination of effect of solar heating*
- *Part 4: Air filter element test method*
- *Part 5: Pressurization system test method*

© ISO 1997

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization  
Case postale 56 • CH-1211 Genève 20 • Switzerland  
Internet central@iso.ch  
X.400 c=ch; a=400net; p=iso; o=isocs; s=central

Printed in Switzerland

# Tractors and self-propelled machines for agriculture and forestry — Operator enclosure environment —

## Part 5: Pressurization system test method

### 1 Scope

This part of ISO 14269 specifies a test procedure which will provide for uniform measurement of the pressurization inside an operator enclosure of tractors and self-propelled machines for agriculture and forestry when equipped with a ventilation system.

### 2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this part of ISO 14269. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this part of ISO 14269 are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 14269-1:1997, *Tractors and self-propelled machines for agriculture and forestry — Operator enclosure environment — Part 1: Vocabulary*.

### 3 Definitions

For the purposes of this part of ISO 14269, the definitions given in ISO 14269-1 apply, of which the following are particularly relevant.

**3.1 pressurization:** Pressure differential between the static pressure inside and outside of the operator enclosure. [ISO 14269-1:1997, definition 2.12]

**3.2 pressurization system:** Means used to pressurize the operator enclosure including any components which influence the performance of the system. [ISO 14269-1:1997, definition 2.13]

### 4 Test equipment

**4.1 Device to measure pressurization,** with a measuring accuracy of 10 % of the observed values.

**4.2 Device to measure blower voltage,** with a measuring accuracy of 2 % of the observed values.

## 5 Test conditions

**5.1** The pressurization system shall be completely powered by the standard equipment on the test machine with the engine operating at rated speed. The voltage at blower motor terminals shall be no more than 20 % above the nominal rating of the system (for example 14,4 V for a 12 V system).

**5.2** All machine accessories pertinent to the operation of the operator enclosure, enclosure components and blowers shall be standard production parts or the equivalent, adjusted within the machine manufacturer's specification limits. Clean air filters are recommended since the amount of dirt in the filters may affect pressurization.

**5.3** An operator may be present in the operator enclosure throughout the duration of the test.

## 6 Test procedure

**6.1** Operate the pressurization system for a minimum of 15 min prior to obtaining data. The pressurization system shall be operated using maximum outside air, with maximum blower speed setting. No automatic pressurization controls shall be locked out.

**6.2** To obtain uniform results, neither the air conditioning nor heating systems shall be in operation during the pressurization system tests.

**6.3** Record, for information purposes only, the blower voltage, ambient temperature, barometric pressure, wind velocity, and wind direction in relation to the machine centreline.

**6.4** Record enclosure pressure, in pascals.

NOTE — It is recommended to avoid velocity head on the pressure measuring device by keeping its outlets away from air streams.

## 7 Test report

The obtained enclosure pressure (Pa) shall be included in the test report.