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

**Part 3:**  
Determination of effect of solar heating

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

*Partie 3: Détermination de l'effet du rayonnement solaire*



## Foreword

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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 14269-3 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*

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

## Part 3:

### Determination of effect of solar heating

#### 1 Scope

This part of ISO 14269 specifies a test method for simulating solar heating in the laboratory and measuring the radiant heat energy from a natural or simulated source. This standard is applicable to tractors and self-propelled machines for agriculture and forestry when equipped with an operator enclosure.

#### 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 solar heating:** Heating factor from the sun to be considered in determining air circulation and cooling requirements necessary to maintain comfortable temperature inside the operator enclosure. [ISO 14269-1:1997, definition 2.18]

**3.2 solar radiant energy:** Process by which solar heating is generated. [ISO 14269-1:1997, definition 2.19]

#### 4 General

**4.1** The intended result of this method is to record the radiant heat energy affecting an operator enclosure during tests of the air-conditioning system.

**4.2** This method should be used in conjunction with the test given in ISO 14269-2:1997, *Tractors and self-propelled machines for agriculture and forestry — Operator enclosure environment — Part 2: Heating, ventilation and air-conditioning test method and performance*.