



<b>SURFACE VEHICLE RECOMMENDED PRACTICE</b>	<b>J3078™/1</b>	<b>APR2024</b>
	Issued	2020-01
	Revised	2024-04
Superseding J3078/1 JAN2020		
Off-Road Self-Propelled Work Machines Operator Enclosure Environment Part 1: Terms and Definitions		

## RATIONALE

To ensure consistency with other parts of SAE J3078, the scope needs to be revised. Also content will be reviewed and updated.

### 1. SCOPE

SAE J3078 provides test methods and criteria for the evaluation of the operator enclosure environment in earth-moving machinery as defined in ISO 6165. SAE J3078/1 gives the terms and definitions which are used in other parts of SAE J3078. It is applicable to Off-Road Self-Propelled Work Machines as defined in SAE J1116 and tractors and machinery for agriculture and forestry as defined in ANSI/ASAE S390.

### 2. REFERENCES

#### 2.1 Applicable Documents

The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

##### 2.1.1 ISO Publications

Copies of these documents are available online at <http://webstore.ansi.org/>.

ISO 6165 Earth-moving machinery - Basic types - Identification and terms and definitions

ISO 5353:1995 Earth-moving machinery, and tractors and machinery for agriculture and forestry - Seat index point

### 3. TERMS, DEFINITIONS, AND ABBREVIATIONS

#### 3.1 AIR

The mixture of invisible odorless tasteless gases (such as nitrogen and oxygen) that surrounds the earth.

#### 3.2 FRESH AIR

Air of such purity that it will not cause harm or discomfort to an individual if it is inhaled for extended periods.

SAE Executive Standards Committee Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

Copyright © 2024 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, or used for text and data mining, AI training, or similar technologies, without the prior written permission of SAE.

**TO PLACE A DOCUMENT ORDER:** Tel: 877-606-7323 (inside USA and Canada)  
Tel: +1 724-776-4970 (outside USA)  
Fax: 724-776-0790  
Email: [CustomerService@sae.org](mailto:CustomerService@sae.org)  
**SAE WEB ADDRESS:** <http://www.sae.org>

**For more information on this standard, visit**  
[https://www.sae.org/standards/content/J3078/1\\_202404](https://www.sae.org/standards/content/J3078/1_202404)

### 3.3 AIR CONDITIONING SYSTEM

System which lowers the temperature and humidity of the air within the operator enclosure.

### 3.4 AIR FILTRATION

Removal of dust particles from the air forced or drawn into the operator enclosure by mechanical means.

### 3.5 CLIMATE CONTROL SYSTEM

System which provides the function of heating, ventilating and air conditioning. Often referred to as the Heating, Ventilating, Air Conditioning System (HVAC).

### 3.6 COOLING

Decrease of the temperature of the air inside the operator enclosure.

### 3.7 DAYLIGHT OPENING (DLO)

The glazed surface through which the operator has unobstructed visibility from the Seat Index Point.

### 3.8 DEFROSTED AREA

Area of the glazed surface consisting of dry cleared surface and melted or partially melted (wet) test coating and excluding that area of the glazed surface covered with dry test coating of ice.

### 3.9 DEFROSTING

Removal and maintenance of an ice/frost-free glazed surface for visibility.

### 3.10 DEFROSTING SYSTEM

System which maintains ice/frost-free glazed surfaces.

### 3.11 GLAZED SURFACE

Portions of the operator enclosure which are transparent, allowing the operator visibility of the area outside the enclosure.

### 3.12 HEAT TRANSFER MEDIUM

Fluid used in heating system particularly in testing components when vehicle is not operating.

### 3.13 HEATING

Increase of the temperature of the air inside the operator enclosure.

### 3.14 HEATING SYSTEM

System which raises the temperature of the air within the operator enclosure.

### 3.15 OPERATOR ENCLOSURE

Structure which completely surrounds the operator, preventing the free passage of external air, particulate matter, or other substances into the operator environment.

### 3.16 OPERATOR ENCLOSURE AIR FILTER ELEMENT

Medium in which particulate matter is removed from the incoming or recirculated air supply.