

ISO/FDIS 24660:2023(E)

ISO TC 117 WG 7

Secretariat: BSI

Date: 2023-12-16

Fans — Determination of airflow propelled through an open personnel door by a positive pressure ventilator

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[ISO/FDIS 24660](https://standards.iteh.ai/catalog/standards/iso/7016af72-d99e-4559-9946-ea1c77da4b32/iso-fdis-24660)

<https://standards.iteh.ai/catalog/standards/iso/7016af72-d99e-4559-9946-ea1c77da4b32/iso-fdis-24660>

© ISO 2023

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office

CP 401 • Ch. de Blandonnet 8

CH-1214 Vernier, Geneva

Phone: +41 22 749 01 11

Fax: +41 22 749 09 47

Email: copyright@iso.org

Website: www.iso.org

Published in Switzerland

Commented [eXtyle1]: The reference is to a withdrawn standard which has been replaced

ISO 20344, Personal protective equipment — Test methods for footwear

iTeh Standards
(<https://standards.itih.ai>)
Document Preview

ISO/FDIS 24660

<https://standards.itih.ai/catalog/standards/iso/7016af72-d99e-4559-9946-ca1c77da4b32/iso-fdis-24660>

Contents

Foreword4

Introduction5

1 Scope6

2 Normative references6

3 Terms and definitions.....6

4 Symbols, abbreviated terms and subscripts.....8

5 Measurements8

5.2 Calibration9

5.3 Pressure indicating instrument – PPV static pressure9

5.4 Other pressure measurement systems9

6 Test configuration9

6.1 Setup9

6.2 Chamber.....9

6.3 Chamber entrance.....9

6.4 Fuel10

7 Carrying out the test.....10

7.1 Determinations10

7.2 PPV engine test speed10

7.3 Exhaust venting.....10

8 Calculations11

8.1 Volume flow rate of the PPV11

8.2 Static pressure as a function of volume flow rate.....11

8.3 Volume flow rate at free delivery11

9 Test Results.....12

9.1 Results12

9.2 Report.....12

ITeH Standards
 (https://standards.iteh.ai)
 Document Preview

ISO/FDIS 24660

https://standards.iteh.ai/catalog/standards/iso/7016af72-d99e-4559-b046-ca1c77da4b32/iso-fdis-24660

ISO/FDIS 24660:2023(E)

9.3 Performance curve 12

iTeh Standards
(<https://standards.itih.ai>)
Document Preview

[ISO/FDIS 24660](https://standards.itih.ai/catalog/standards/iso/7016af72-d99e-4559-9946-ca1c77da4b32/iso-fdis-24660)

<https://standards.itih.ai/catalog/standards/iso/7016af72-d99e-4559-9946-ca1c77da4b32/iso-fdis-24660>

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 117, *Fans*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Formatted: Adjust space between Latin and Asian text,
Adjust space between Asian text and numbers

ISO/FDIS 24660:2023(E)

Introduction

This document establishes a uniform method of laboratory testing for the determination of the aerodynamic performance of a positive pressure ventilator (PPV) in terms of airflow rate, pressure, air density and rotational speed, for performance rating or guarantee purposes.

iTeh Standards (<https://standards.itih.ai>) Document Preview

[ISO/FDIS 24660](https://standards.itih.ai/catalog/standards/iso/7016af72-d99e-4559-9946-ea1c77da4b32/iso-fdis-24660)

<https://standards.itih.ai/catalog/standards/iso/7016af72-d99e-4559-9946-ea1c77da4b32/iso-fdis-24660>