

ANSI/AMCA Standard 260-20

Laboratory Methods of Testing Induced Flow Fans for Rating

An American National Standard
Approved by ANSI on January 14, 2020



Air Movement and Control Association International

AMCA Corporate Headquarters

30 W. University Drive, Arlington Heights, IL 60004-1893, USA
communications@amca.org ■ Ph: +1-847-394-0150 ■ www.amca.org

© 2020 AMCA International and ASHRAE

ANSI/AMCA Standard 260-20

Laboratory Methods of Testing Induced Flow Fans for Rating



Air Movement and Control Association International
30 West University Drive
Arlington Heights, Illinois
60004

AMCA Standard

Authority ANSI/AMCA Standard 260 was adopted by the membership of the Air Movement and Control Association International Inc. on January 8, 2020. It was approved as an American National Standard on January 14, 2020.

Copyright © 2007 by the Air Movement and Control Association International Inc.

All rights reserved. Reproduction or translation of any part of this work beyond that permitted by Sections 107 and 108 of the United States Copyright Act without the permission of the copyright owner is unlawful. Requests for permission or further information should be addressed to the executive director, Air Movement and Control Association International Inc. at 30 West University Drive, Arlington Heights, IL 60004-1893, U.S.A.

Objections The Air Movement and Control Association (AMCA) International Inc. will consider and take action upon all written complaints regarding its standards, certification programs or interpretations thereof. For information on procedures for submitting and handling complaints, write to:

AMCA International
30 West University Drive
Arlington Heights, IL 60004-1893
U.S.A.

European AMCA
Avenue des Arts, numéro 46
à Bruxelles (1000 Bruxelles)

Asia AMCA Sdn Bhd
No. 7, Jalan SiLC 1/6,
Kawasan Perindustrian SiLC Nusajaya,
Mukim Jelutong, 79200 Nusajaya, Johor
Malaysia

Disclaimer AMCA uses its best efforts to produce publications for the benefit of the industry and the public in light of available information and accepted industry practices. However, AMCA does not guarantee, certify or assure the safety or performance of any products, components or systems tested, designed, installed or operated in accordance with AMCA publications or that any tests conducted under its publications will be non-hazardous or free from risk.

Review Committee

Bob Valbracht	Chair	Loren Cook Company
Chaitanya Johar	Member	AAON Incorporated
Abhishek Jain	Non-Voting Member	Air Flow PVT. LTD.
Mohamed Safwan	Non-Voting Member	City Breeze Technical Services
Franco Cincotti	Non-Voting Member	Comefri USA Inc.
Marcel Kamutzki	Member	Daltec Process Fans
Machindra Gaikwad	Non-Voting Member	Elta Fans India Pvt. Ltd.
Iain R. Kinghorn	Member	Flakt Woods, Ltd.
Kenneth Kuntz	Non-Voting Member	Greenheck Fan Corporation
Mark VanderKooy	Member	Greenheck Fan Corporation
Nitin Mahajan	Member	Greenheck Middle East FZE
AG Kalidass	Non-Voting Member	IEMSC Dubai
Jye Teoh	Non-Voting Member	Kruger Ventilation Industries Asia Co Ltd (KVA)
Keith Lins	Member	M.K. Plastics Corporation
Andrew Timm	Member	New York Blower Company, The
Brian Hill	Non-Voting Member	New York Blower Company, The
Anthony Breen	Member	Nuaire Ltd.
Nathan Stublaski	Member	PennBarry
Paul Sixsmith	Non-Voting Member	Plasticair Inc.
Yuriy Ivantsiv	Member	Plasticair Inc.
David Ortiz Gomez	Member	Soler & Palau, S.A. de C.V.
Evan Myers	Member	Verantis Corporation
Tim Orris	AMCA Staff Liaison	AMCA International, Inc.

Contents

- 1. Purpose 1
- 2. Scope 1
- 3. Normative References 1
- 4. Units of Measurement..... 1
- 5. Symbols and Subscripts 1
- 6. Definitions..... 2
 - 6.1 Induced flow fan..... 2
 - 6.2 Nozzle area..... 2
 - 6.3 Nozzle 2
 - 6.4 Outlet airflow 2
 - 6.5 Outlet area 2
 - 6.6 Windband 2
- 7. Instruments and Methods of Measurement..... 2
 - 7.1 Variable supply and exhaust system 2
- 8. Test Setups 2
 - 8.1 Inlet chamber or inlet duct setup 2
 - 8.2 Test for measurement of outlet airflow 2
- 9. Observations and Conduct of Test 3
 - 9.1 Data recording requirements for the outlet airflow test as defined in Section 7.2 3
- 10. Calculations 3
 - 10.1 Calculation requirements for the outlet airflow test as defined in Section 7.2 3
 - 10.2 Total efficiency calculation 3
 - 10.3 Compressibility factor 4
- 11. Report and Results of Test 5