

NAMS 111: 2025

First Edition

SADC HT 111: 2023

First Edition

NAMIBIAN STANDARD

Minimum Energy Performance Standards for Refrigerating Appliances

This Namibian standard is the identical adoption of SADC HT 111:2023 and is adopted with the permission of the Southern African Development Community Cooperation in Standardisation (SADCSTAN)

Published by the Namibian Standards Institution (NSI)
Established by section 2 of the Standards Act, 2005 (Act No 18 of 2005)
37 Feld Street
P.O. Box 26364 Windhoek, Namibia
Tel +264-61386400, Fax +264-61-386454
Website: www.nsi.com.na
© NSI



Licensed by NSI to NSI for internal use only
DOWNLOADED:24/06/2026
Single-user licence only, copying and networking prohibited.

NAMS 111: 2025

First Edition

SADC HT 111: 2023

First Edition

National foreword

This Namibian Standard (NAMS) is identical to Southern African Development Community Cooperation in Standardisation (SADCSTAN) SADC HT 111:2023 Minimum Energy Performance Standards for Air Conditioners and was approved for adoptions by the Namibian Standards Institution CEO.

Namibian standards are developed based on NSI Standards development procedures in accordance with the rules given in the International Organisation for Standardisation/ International Electrotechnical Commission (ISO/IEC) Directives 1, ISO/IEC Guide 21-1 Adoption of international standards as regional or national standards and WTO – TBT World Trade Organisation code of Good Practice (which is published as Annex 3 in the TBT Agreement)

The NSI Technical Committee responsible for this standard is NSI TC 18, Refrigeration and Air-Conditioning.

This NAMS 111: 2025 SADC HT 111: 2023 was published in June 2025.



Minimum Energy Performance Standards for Refrigerating Appliances

Dec, 2023

Table of Contents

1. Scope of Covered products	3
1.1 Scope	3
1.2 Exemptions	3
2. Normative Reference.....	3
3. Terms & Definitions.....	4
4. Requirements.....	6
4.1 Test Methods and Energy Use Calculation.....	7
4.2 Daily Energy Use Calculation	7
4.3 Maximum Energy Use	8
4.4 Functional Performance	10
4.5 Refrigerant and Foam Blowing Agent	11
4.6 Product Information	11
5. Declaration of Conformity.....	12
6. Revision	12
Annex 1: Supplemental Information.....	13
1. An Example of Energy Consumption Calculation for Refrigerator	13
2. An Example of Energy Consumption Calculation for Refrigerator-Freezer	15
3. An Example of Energy Consumption Calculation for Freezer	16
4. A Comparison of Product Categories and Energy Use Calculation.....	17
5. Trends in Energy Efficiency Standards	19
6. Market Surveillance.....	19
7. Information on Voltage and frequency supplies in SADC member countries.	20

List of Tables

Table 1. Reference Ambient Temperature and Coefficients a and b for Equation 5	9
Table 2. Maximum Annual Energy Consumption (AEC_{Max}).....	9
Table 3. Examples of Volume Adjustment Factor (K) Calculation.....	9
Table 4. Minimum R Requirements for Refrigerating Appliances.....	10
Table 5. Labeling Requirements for Refrigerating Appliances	10
Table 6. Requirements for Refrigerant and Foam-Blowing Agent Characteristics (numbers shown are upper limits).....	11