

PAKISTAN STANDARD

**AIR-COOLED AIR CONDITIONERS AND AIR-TO-AIR HEAT PUMPS —
TESTING AND CALCULATING METHODS FOR SEASONAL PERFORMANCE
FACTORS —**

PART: 2 HEATING SEASONAL PERFORMANCE FACTOR



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CALCULATING METHODS FOR SEASONAL PERFORMANCE FACTORS —**

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0. FOREWORD

- 0.1 This Pakistan Standard was adopted by the authority of the Board of Directors for Pakistan Standards and Quality Control Authority after approval by the Technical Committee for “Air-cooled air conditioners and air-to-air heat pumps — Testing and calculating methods for seasonal performance factors —Part: 2 heating seasonal performance factor,” had been approved and endorsed by the Electrotechnical National Standards _____.
- 0.2 This Pakistan Standard was adopted on the basis of ISO: 16358-2 since IEC Standard have been established in 2013, hence it is deemed necessary to adopt the International standard to keep abreast with the latest technology and as par with ISO standard.
- 0.3 This Pakistan Standard is an adoption of ISO: 16358-2 “Air-cooled air conditioners and air-to-air heat pumps — Testing and calculating methods for seasonal performance factors —Part: 2 heating seasonal performance factor,” and its use hereby acknowledged with thanks.
- 0.4 This standard is subject to periodical review in order to keep pace with the development in industry. Any suggestions for improvement shall be recorded and placed before the revising committee in due course.
- 0.5 This standard is intended chiefly to cover the technical provisions relating to this standard and it does not include all the necessary provisions of a Contract.

Contents

Page

| | |
|---|-----------|
| Foreword..... | iv |
| 1 Scope..... | 1 |
| 2 Normative references..... | 1 |
| 3 Terms and definitions..... | 1 |
| 4 Symbols..... | 4 |
| 5 Tests..... | 7 |
| 5.1 General..... | 7 |
| 5.2 Test conditions..... | 7 |
| 5.3 Test methods..... | 9 |
| 6 Calculations..... | 10 |
| 6.1 Heating seasonal performance factor (HSPF) and total heating seasonal performance factor (THSPF)..... | 10 |
| 6.2 Defined heating load..... | 10 |
| 6.3 Outdoor temperature bin distribution for heating..... | 10 |
| 6.4 Heating seasonal characteristics of fixed capacity units..... | 11 |
| 6.5 Heating seasonal characteristics of two-stage capacity units..... | 13 |
| 6.6 Heating seasonal characteristics of multi-stage capacity units..... | 15 |
| 6.7 Heating seasonal characteristics of variable capacity units..... | 20 |
| 7 Test report..... | 24 |
| Annex A (informative) Figures..... | 26 |
| Annex B (informative) Calculation of total heating seasonal performance factor (THSPF)..... | 30 |
| Annex C (normative) Testing and calculation method for degradation coefficient of cyclic operation..... | 32 |
| Annex D (informative) Calculating method for seasonal performance factor when setting a specific heating load..... | 35 |
| Annex E (informative) Calculating method for temperature when defined load line crosses each capacity line..... | 36 |

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Air-cooled air conditioners and air-to-air heat pumps — Testing and calculating methods for seasonal performance factors —

Part 2: Heating seasonal performance factor

1 Scope

1.1 This part of ISO 16358 specifies the testing and calculating methods for seasonal performance factor of equipment covered by ISO 5151, ISO 13253 and ISO 15042. For the purposes of this part of ISO 16358, it is assumed that any make-up heating will be provided by electric heaters running concurrently with the heat pump.

1.2 This part of ISO 16358 also specifies the seasonal performance test conditions and the corresponding test procedures for determining the seasonal performance factor of equipment, as specified in [1.1](#), under mandatory test conditions and is intended for use only in marking, comparison, and certification purposes.

1.3 This part of ISO 16358 does not apply to the testing and rating of

- a) water-source heat pumps or water-cooled air conditioners;
- b) portable units having a condenser exhaust duct;
- c) individual assemblies not constituting a complete refrigeration system; or
- d) equipment using the absorption refrigeration cycle.

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