

ISO 16358-2:2013-04 (E)

Air-cooled air conditioners and air-to-air heat pumps - Testing and calculating methods for seasonal performance factors - Part 2: Heating seasonal performance factor

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