

ISO 9459-5:2007-05 (E)

Solar heating - Domestic water heating systems - Part 5: System performance characterization by means of whole-system tests and computer simulation

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	2
3	Terms and definitions	2
4	Symbols, units and nomenclature	4
5	Apparatus	5
5.1	Mounting and location of the SDHW system	5
5.2	Test facility	8
5.3	Instrumentation	10
5.4	Location of sensors	10
6	Test method	12
6.1	General	12
6.2	Test conditions	12
6.3	Test sequences	14
6.4	Data acquisition and processing	17
7	Identification of system parameters	19
7.1	Dynamic fitting algorithm	19
7.2	Options	19
7.3	Constants	19
7.4	Skip time	20
7.5	Parameters	20
8	Performance prediction	20
8.1	Yearly performance prediction and reporting	20
8.2	Reference conditions	20
Annex A (normative) Basis of dynamic SDHW system testing		21
Annex B (normative) Validation of the test method		24
Annex C (normative) Test report		25
Annex D (informative) Hardware and software recommendations		30
Bibliography		35