ISO 9806-1:1994-12 (E)

Test methods for solar collectors - Part 1: Thermal performance of glazed liquid heating collectors including pres sure drop

Contents

Page

1 Scope 1

2 Normative references 1

3 Definitions 2

4 Symbols and units 4

5 Collector mounting and location 4

6 Instrumentation 5

7 Test installation 11

8 Outdoor steady-state efficiency test 13

9 Steady-state efficiency test using a solar irradiance Simulator 19

10 Determination of the effective thermal capacity and the time constant of a collector 22

11 Collector incident angle modifier 24

12 Determination of the pressure drop across a collector 26

Annexes

A Format sheets for test data 28

B Collector characteristics 46

C Solar spectrum 51

D Properties of water 52

E Measurement of effective thermal capacity 53

F Biaxial incident angle modifiers 56

G Bibliography 58