

DIN EN 12975:2022-06 (E)

Solar collectors - General requirements

Contents	Page
European foreword	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Symbols and abbreviations	6
5 Requirements	6
5.1 General	6
5.2 Tests	7
5.3 Documentation	7
5.4 Performance indicators	7
5.5 Recommended tests	7
5.5.1 Pressure drop	7
5.5.2 Fire safety	7
6 Documentation and labelling	8
6.1 Drawings and data sheets	8
6.2 Labelling	8
6.3 Installation instruction	8
Annex A (normative) Conversion of test results according to earlier standards	10
A.1 Conversion of test results	10
A.3 Performance parameters of collectors tested under EN ISO 9806:2013	11
Annex B (normative) Solar collector performance rating	13
B.1 Gross Yield calculation	13
B.1.1 Introduction	13
B.1.2 Gross Thermal Yield GTY(op,Loc)	13
B.1.3 Gross Electric Yield GEY(op,Loc)	13
B.1.4 Gross Solar Yield GSY(op,Loc)	14
B.2 European climatic reference conditions	14
Annex C (normative) Solar collector families and design tolerances	19
C.1 Collector families	19
C.1.1 General	19
C.1.2 General family concept	19
C.1.3 Size families	19
C.1.4 Collector glass thickness families	20
C.2 Design tolerances	20
C.2.1 General	20
C.2.2 Coloured frames	20
C.2.3 Riser distances	20
C.2.4 Header tube diameters	20
Annex D (normative) Solar collector retesting guideline	21

Annex E (normative) Reaction to fire testing	22
E.1 General	22
E.2 Standard EN 13823 (Single burning item test)	22
E.3 Standard EN ISO 11925-2 (Single flame source test)	22
E.4 Field of direct application	22
Annex F (normative) External fire exposure to roofs testing	23
F.1 General	23
F.2 Field of direct application	23
Bibliography	24