

DIN EN 12976-1:2006-04 (E)

Thermal solar systems and components - Factory made systems - Part 1: General requirements

Contents	Page
Foreword	3
Introduction	4
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
3.1 expansion line	6
3.2 safety line	7
3.3 blow-off line	7
3.4 factory-made solar system	7
4 Requirements	7
4.1 General	7
4.1.1 Suitability for drinking water	7
4.1.2 Water contamination	7
4.1.3 Freeze resistance	8
4.1.4 Overtemperature protection	8
4.1.5 Reverse flow protection	9
4.1.6 Pressure resistance	9
4.1.7 Electrical safety	9
4.2 Materials	9
4.3 Components and pipework	10
4.3.1 Collector	10
4.3.2 Supporting frame	10
4.3.3 Piping	10
4.3.4 Heat Exchangers	10
4.3.5 Control system	10
4.4 Safety equipment	11
4.4.1 Safety valves	11
4.4.2 Safety lines and expansion lines	11
4.4.3 Blow-off lines	11
4.5 Resistance to external influences	11
4.6 Documentation	11
4.6.1 General	11
4.6.2 Documents for the installer	12
4.6.3 Documents for the user	13
4.7 Labeling	14
4.8 System performance	14
Annex A (informative) Conformity assessment	15
Bibliography	16