DIN EN 14897:2007-09 (E)

Water conditioning equipment inside buildings - Devices using mercury low-p ressure ultraviolet radiators - Requirements for performance, safety and testing (includes Amendment A1:2007)

Contents

Page

Foreword 3

1 Scope 4

2 Normative references 4

3 Definitions 4

4 Requirements 7
4.1 General 7
4.2 Radiation chamber 7
4.3 Low-pressure mercury UV lamps 7
4.4 Electrical 7
4.4.1 General 7
4.4.2 UV disinfection devices 7
4.4.3 UV bactericidal treatment devices 8
4.5 Performance 8
4.6 Labelling 8
4.7 Manual 9

5 Testing 9
5.1 General 9
5.2 Test rig and installation 10
5.3 Biodosimetric measurements 10
5.4 Performance test procedure 11
5.4.1 UV disinfection devices 11
5.4.2 Processing of the data 13
5.4.3 UV bactericidal treatment devices 15
5.4.4 Processing of the data 15

Annex A (normative) Requirements for the device sensor 17

A.1 Calibration 17
A.2 Selectivity 17
A.3 Measuring range linearity 17
A.4 Measuring range and resolution 17
A.5 Temperature drift 18
A.6 Stability over time 18

Annex B (normative) Biodosimeter calibration 19

Annex C (informative) Monitoring window 22

Annex D (normative) Manufacturer's information for the type test 23

Annex E (normative) Manufacturer's information for the UV device user 25

Annex F (normative) !Installation, operation and maintenance 26

Bibliography 30