DIN EN 13718-1:2020-10 (E)

Medical vehicles and their equipment - Air ambulances - Part 1: Requirements for medical devices used in air ambulances (includes Amendment A1:2020)

Contents

Page

European foreword 3

Introduction 5

1 Scope 6

2 Normative references 6

3 Terms and definitions 7

4 Requirements for medical devices for air ambulances 8
4.1 General 8
4.2 Patient and personnel safety 8
4.3 User interface 8
4.4 Environmental conditions and performance of medical devices intended for use in air ambulances 9
4.4.1 Functional temperature range 9
4.4.2 Humidity 9
4.4.3 Variable atmospheric pressures 9
4.5 Electrically-powered medical devices 9
4.5.1 General 9
4.5.2 Medical devices with 12 V DC power input 10
4.5.3 Medical devices with 24 V DC power input 10
4.5.4 Medical devices with 230 V AC power input 10
4.5.5 Short time voltage drop 10
4.5.6 Internal electrical power source 10
4.5.7 Electromagnetic interference of medical devices 10
4.6 Medical gas supply 10
4.6.1 General 10
4.6.2 Gas leakage 11
4.6.3 Pressure regulators and flow metering devices 11
4.6.4 Pneumatic power 11
4.6.5 Cylinder valves 11
4.6.6 Low pressure hose assemblies 11
4.7 Mechanical strength 11
4.7.1 General 11
4.7.2 Vibration and bump 11
4.7.3 Free fall 11
4.8 Fixation of medical devices in air ambulances 12
4.9 Fire resistance 12
4.10 Information to be supplied by the manufacturer 12

5 Test methods 12
5.1 General 12
5.2 Ambient conditions 12
5.3 Test method for durability of markings and colour coding 13
5.4 Free fall 13

Annex ZA(informative) !Relationship between this European standard and the essential requirements of Directive 93/42/EEC [OJ L 169] aimed to be covered 14

Bibliography 15