

DIN EN 13718-2:2020-10 (E)

Medical vehicles and their equipment - Air ambulances - Part 2: Operational and technical requirements for air ambulances (includes Amendment A1:2020)

Contents	Page
European foreword	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	10
4 General requirements for air ambulances	11
4.1 General	11
4.2 Environmental conditions in the patient compartment	12
4.2.1 Temperature and humidity	12
4.2.2 Air conditioning system (ACS)	12
4.2.3 Variable atmospheric pressure	12
4.2.4 Interior light	12
4.2.5 Ventilation	12
4.2.6 Noise exposure	13
4.3 Requirements for electrical power supply for medical devices in the patient compartment	13
4.4 Electromagnetic interference	14
4.5 Rail systems	14
4.6 Mechanical vibration	14
4.7 Requirements for fixation of medical devices	14
4.8 Restraint systems in the patient compartment	14
4.9 Patient compartment	15
4.9.1 General	15
4.9.2 Hygienic	15
4.9.3 Patient loading and unloading	15
4.9.4 Communication systems	16
4.9.5 Fire safety requirements	16
4.9.6 Emergency exit	16
4.10 Patient treatment area	16
4.10.1 General	16
4.10.2 Dimensions	16
4.11 Lists of equipment	18
5 Air ambulances, operation and performance requirements	19
5.1 Personnel	19
5.1.1 Flight crew	19
5.1.2 Medical crew	19
5.2 Specific requirements for helicopters operated in Helicopter Emergency Medical Service (HEMS)	19
5.3 Specific requirements for Helicopter Intensive Care Medical Service (HICAMS)	19
5.4 Specific requirements for Fixed Wing Air Ambulances (FWAA)	20
6 Gas installations in air ambulances	20
6.1 System components	20
6.2 General requirements	20
6.2.1 Capacity and pressure operating range	20

6.2.2	Continuity of supply	21
6.3	Supply systems with gas cylinders	21
6.4	Supply systems for compressed medical air	21
6.5	Supply systems with air compressor	22
6.6	Pipeline distribution system	22
6.7	Marking and colour coding	23
6.8	Alarms	23
6.9	Testing	23
6.9.1	General	23
6.9.2	Test for mechanical integrity for compressed medical gas systems	23
6.9.3	Test for leakage on all pipeline systems and for mechanical integrity of vacuum pipeline systems	24
6.9.4	Leakage from the compressed medical gas pipelines	24
6.9.5	Test for cross connection	24
6.10	Maintenance	24
	Annex A(normative) Medical devices in air ambulances	25
A.1	Introduction	25
	Annex B(normative) Medicinal products and equipment additional to medical devices in air ambulances	31
B.1	Introduction	31
	Annex C(informative) A-deviations	34
C.1	Deviation in Germany	34
C.1.1	Additional specifications for the medical crew	34
	Annex ZA(informative) !Relationship between this European standard and the essential requirements of Directive 93/42/EEC [OJ L 169] aimed to be covered	35
	Bibliography	37