UNITED KINGDOM
CIVIL AVIATION AUTHORITY

FR23
Issue 5
January 2003
EUROCOPTER FRANCE
EC 120B

TYPE CERTIFICATE DATA SHEET NO. FR23

This data sheet which is part of CAA Type Certificate No. FR23, prescribes conditions and limitations under which the product, for which the Type Certificate was issued, meets the airworthiness requirements of the Civil Aviation Authority.

TYPE CERTIFICATE HOLDER:	EUROCOPTER FRANCE Aeroport International Marseille Provence 13725 Marignane Cedex FRANCE
MANUFACTURER:	EUROCOPTER FRANCE
AIRCRAFT TYPE MODEL NUMBER(S):	EC 120B

In this case, the CAA Type Certification has been granted on the basis of a recommendation from the Joint Aviation Authorities (JAA) following an investigation carried out in accordance with the JAA Joint Certification Procedures. Accordingly, the attached JAA Data Sheet No. JAA/27/97/002 Issue 6 dated October 2002 has been accepted by the CAA for the EC12OB with the following exception:-

Night VFR is not permitted as defined in the referenced JAA Data Sheet. Night VFR is only permitted if an aircraft is fitted with a CAA approved modification(s) which establishes compliance with the applicable UK Navigation Legislation.

- End -

JOINT
AVIATION
AUTHORITIES

SHEET N° JAA/27/97/002

HELICOPTER

EC 120 B

Issue n°6
October 2002

JAA DATA SHEET

TYPE CERTIFICATE HOLDER

EUROCOPTER
Aéroport International Marseille Provence

13 725 - Marignane Cedex

France

MODEL: EC 120 B

Type certificate issuance date: 19 june 1997

JAA application date: 6 may 1994

Original Type Design Standard: Report DMD C 000A0761 E01 Issue B

Dimensions

	Fuselage	Length : 9.60 m
		Width : 2.07 m
		Height : 3.40 m
	Main rotor :	3 blades - diameter : 10 m
	Tail rotor :	8 blades - diameter : 0.75 m

Engine 1 turbine engine ARRIUS 2F manufactured by Turbomeca (see engine Data Sheet n°M22)

Fuel Refer to RFM for approved fuels and additives

Fuel capacity	- total :	410.5 litres
	- usable :	406 litres

Oil Refer to RFM for approved engine and gearbox oils

Installed engine limits

Ratings	Gas generator Speed (NG) (1)	Exhaust gas Temperature (T4) (2)
Max transient (5 s)	103.6%	900°C
Max take-off (5 min)	101%	870°C
Max Continuous	99.5%	830°C

Note : (1) 100% : 54 117 rpm
(2) Max Continuous during starting : 800°C

Transmission torque limits

Max transient : 110%
Max Take off : 103%
Max Continuous : 97%

Note : 100% : 300 Kw at 406 rpm

Airspeed limits

VNE power on : 150 kt at sea level less 3 kt/1000 ft

VNE power off : 120 kt at sea level less 3 kt/1000 ft

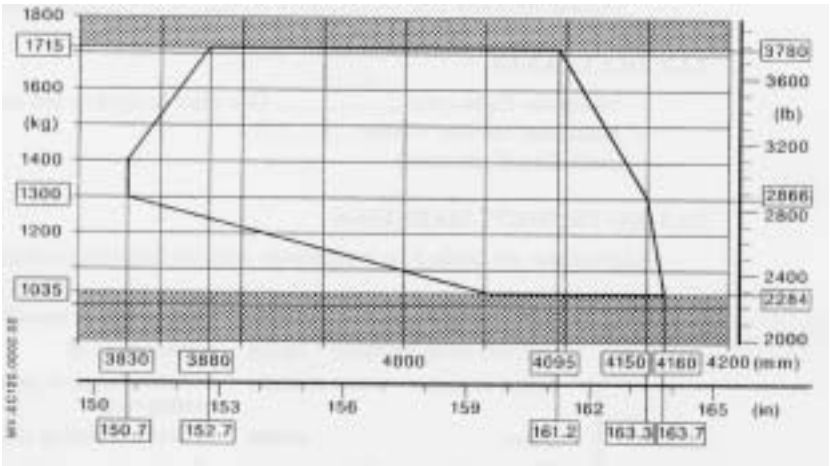
Refer to RFM for approved airspeed with doors open or removed

Rotor speed limits

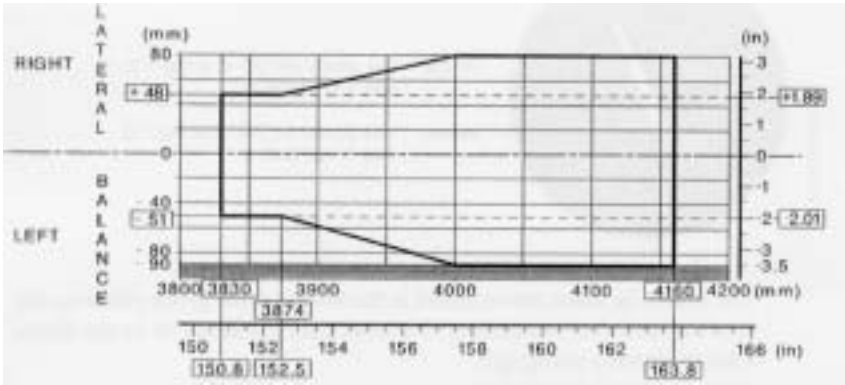
Normal range power on : 390 to 415 rpm
Maximum power off : 447 rpm (aural warning : 420 rpm)
Minimum power off : 340 rpm (aural warning : 370 rpm)

C.G. range

Longitudinal :



Lateral :



Maximum take off weight 1715 kg (3777 lb)

Minimum crew 1 pilot

Maximum passenger 4

Passenger emergency exit one door on each side of the fuselage

Maximum Baggage/Cargo loads Baggage floor: 300 kg/m²
Cockpit floor : 300 kg/m²

Maximum operating pressure altitude 20 000 ft

Maximum take off and landing pressure altitude 2000 ft
or 20 000 ft (see Required equipment note [a])

Operational limits:

Day VFR
Night VFR (see Required equipment note [b])
Flights under icing conditions, freezing rain and aerobatic maneuvers are prohibited

C.G. reference

Longitudinal : 4m forward of main rotor head

Lateral : symetrical plane of the aircraft

Levelling means : mechanical floor

JAA Design Organisation Approval of Eurocopter

Reference F.JA.01 dated 12.9.1996, re-issued 12.09.2002

Certification basis : (defined in CRI A1)

JAR 27 First Issue dated September 06, 1993
Special Condition : HIRF
Equivalent safety findings on :
- Main gear box oil filter by pass
- Powerplant instrument marking

Production basis

Production by Eurocopter under JAA « Production Organisation Approval » N° F.G.003 since 22.12.1997.

Serial number 1001 and following, except S/N 1004

Required equipment

As per compliance with JAR 27 requirements and included in the original Type Design Standard

Note : [a] Max take-off and landing Hp= 20 000ft permitted when change A00075 and SB 32.001 have been embodied to the aircraft (use Flight Manual issue 2 + ITR 3C or FM subsequent issues)

[b] Night VFR operation permitted when SB 34.001 has been embodied to the aircraft (use Flight Manual issue 2 + ITR 3E or FM subsequent issues)

Required documents

Flight Manual (in English)

EC 120B Flight Manual (original issue approved by DGAC-F 19 June 1997) at issue 2 (approved by DGAC-F 19 March 1998) or subsequent issues

Airworthiness Limitations (in English)

- with effect from 19 June 1997,
  EC 120B Aircraft Maintenance Manual - chapter 04 (original issue approved by DGAC-F, 19 June 1997) at issue 1 (approved by DGAC-F, 30 March 1998)
- with effect from 12 March 1999,
  EC 120B Master Servicing Manual - chapter 04, original issue approved by DGAC-F, 12 March 1999 or subsequent issues

Other documents

MMEL: there is a Master Minimum Equipment List approved by DGAC-F (original issue dated 02.06 or subsequent issues)

Repair Manual: there is no approved Repair Manual

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