UNITED KINGDOM
CIVIL AVIATION AUTHORITY

BB 15
Issue 2
Date: September 1999
Models: Thunder AX5-42 S1, AX6-56 S1, AX7-65 S1, AX7-77 S1, AX8-84 S1, AX8-90 S1, AX8-105 S1, AX9-120 S1, AX10-160 S1, AX10-180 S1

TYPE CERTIFICATE DATA SHEET NO. BB 15

This data sheet prescribes conditions and limitations under which the product for which the Type Approval was issued meets the airworthiness requirements of the United Kingdom Civil Aviation Authority.

TYPE DESIGN ORGANISATION Cameron Balloons Ltd.
Thunder & Colt
St. John's Street
Bedminster
Bristol BS3 4NH

MANUFACTURER Cameron Balloons Ltd.

Models: Thunder: AX5-42 S1, AX6-56 S1, AX7-65 S1, AX7-77 S1, AX8-84 S1, AX8-90 S1, AX8-105 S1, AX9-120 S1, AX10-160 S1, AX10-180 S1 Hot Air Balloons.

Envelope	Volume		Drawing	Build Standard Refer to Flight Manual	Date Approved
	cu.ft	cu.m			
AX5-42 S1	42 000	1190	CB 1134	AA	01-11-86
AX6-56 S1	56 000	1590	CB 1135	AB	01-01-73
AX7-65 S1	65 000	1840	CB 1136	A1	01-05-74
AX7-77 S1	77 000	2190	CB 1080	C1	01-01-73
AX8-84 S1	84 000	2380	CB 1125	C9	01-04-79
AX8-90 S1	90 000	2550	CB 1199	D1	09-05-85
AX8-105 S1	105 000	2970	CB 1107	E1	04-03-86
AX9-120 S1	120 000	3400	CB 1137	F1	23-01-92
AX10-160 S1	160 000	4530	CB 1138	H1	01-04-84
AX10-180 S1	180 000	5100	CB 1139	I1	01-02-85

Basket and Burner — As listed on the build standards referred to in the above table.

Fuel — Commercial propane

Maximum Envelope Temperature — 120° C

Fuel system — Minimum two independent tanks with provision to supply pilot lights (double burner), three such tanks for triple burner. Extra tanks may be used. Refer to Flight Manual Build Standard

Maximum weight — The maximum weight of the balloon is the lesser of the figures given below or the weight calculated in accordance with the Flight Manual Limitations Section.

Balloon Type	Maximum weight (Kg)	Balloon Type	Maximum weight (Kg)
AX5-42 S1	420	AX8-90 S1	900
AX6-56 S1	560	AX8-105 S1	1050
AX7-65 S1	650	AX9-120 S1	1200
AX7-77 S1	770	AX10-160 S1	1600
AX8-84 S1	840	AX10-180 S1	1800

Minimum Equipment — Minimum equipment and eligible equipment is listed in the approved flight manual.

Minimum crew — One (1) pilot.

Maximum occupants — Not to exceed maximum weight restriction (see Flight Manual).

Serial Nos. eligible — All.

Data applicable to all models

Maintenance and inspection — Maintenance and inspection of these balloons must be carried out in accordance with Maintenance Schedule MS/BBAC/1-S for continued airworthiness. See note 1.

Certification basis — AX6-56 S1 to British Airworthiness Requirements, Manned Free Balloons, Issue 1 dated March 1972.
AX8-84 S1to British Airworthiness Requirements, Manned Free Balloons, Draft Issue 2 dated May 1978.
All others to British Civil Airworthiness Requirements, Part 31, issue dated 31/8/84, Appendix 1 to CAA letter ref 9/30/IPA dated 27/2/1989.

Airworthiness Categories — UK: Private, Aerial work, Transport (passenger)

Flight manual — Balloons Hot Air Balloon Flight Manual at current issue.

Note 1 — For the purpose of maintenance and inspection log books must be maintained with each hot air balloon envelope. If the burner, basket, instruments and/or tanks are interchanged, they must be listed in the log book of each envelope with which they are used.

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