UNITED KINGDOM
CIVIL AVIATION AUTHORITY

BB1
Issue 2
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CAMERON BALLOONS
Models:
O-31, O42, O-56, O-65, O-77, O-84, O-90, O-105, O-120, O-140, O-160

TYPE CERTIFICATE DATA SHEET NO. BB1

This data sheet is part of CAA type Certificate No.BB1 and gives the basis upon which the Certificate was issued, together with other information to define the product.

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

MANUFACTURER — Cameron Balloons Ltd.

Models O-31, O-42, O-56, O-65, O-77, O-84, O-90, O-105, O-120, O-140, O-160 Hot Air Balloons.

Envelope	Volume		Drawing	Build Standard Refer to Flight Manual	Date Approved
	cu.ft	cu.m			
O-31	31 450	890	CB 110	CBL/TN/BEB/937	31-1-73
O-42	42 000	1190	CB 101	CBL/TN/BEB/938	4-8-72
O-56	56 000	1590	CB 45	CBL/TN/BEB/939	21-4-77
O-65	65 000	1840	CB 54	CBL/TN/BEB/462	18-1-80
O-77	77 500	2190	CB 112	CBL/TN/BEB/407	10-4-73
O-84	84 000	2380	CB 49	CBL/TN/DCB/543	20-7-71
O-90	90 000	2550	CB 658	CBL/TN/BEB/584	19-12-88
O-105	105 000	2970	CB 167	CBL/TN/BEB/383	31-5-79
O-120	120 000	3398	CB 505	CBL/TN/BEB/347	28-8-87
O-140	140 000	4110	CB 772	CBL/TN/BEB/940	28-3-90
O-160	160 000	4530	CB 368	CBL/TN/BEB/325	9-6-83

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)
O-31	285	O-90	816
O-42	381	O-105	953
O-56	508	O-120	1089
O-65	590	O-140	1270
O-77	703	O-160	1451
O-84	762		

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 — O-56 to British Airworthiness Requirements, Manned Free Balloons, Issue 1 dated March 1972.
O-42, O-65 to British Airworthiness Requirements, Manned Free Balloons, Draft Issue 3 dated September 1979.
O-31, O-77, O-84, O-90, O-105, O-120, O-140, O-160 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, Issue 8.

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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