UNITED KINGDOM
CIVIL AVIATION AUTHORITY

BAS 8
Issue 1
Date August 2001
Type CAMERON 'D' Series
Hot Air Airships

TYPE CERTIFICATE DATA SHEET No. BAS 8

This data sheet which is part of CAA Type Certificate No. BAS 8 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: Cameron Balloons Ltd.
St John's Street
Bedminster
Bristol
BS3 4NH

MANUFACTURER: Cameron Balloons Ltd.

AIRCRAFT TYPE(S): D-38, D-50, D-96 Hot Air Airships

Model	Envelope Volume		Drawing	Build Standard	Date Approved
	cubic feet	cu. meters			
D-38	38 000	1075	CB144 Iss B	DAC 10 Feb 1981	13-2-81
D-50	50 000	1415	CB350 Iss B	DAC 17 Sept 1985	29-9-81
D-96	96 000	2720	CB71,CB111, CB114, CB117, CB122	CB 157	20-8-86

CERTIFICATION BASIS:

The following requirements were the basis of the type design:

Model	Requirements
D-38	Paper 696 dated 27 January 1978
D-50	BAR Issue 2 and Paper 696 dated 27 January 1978
D-96	Working Draft of British Airworthiness Requirements for Powered Hot Air Airships Issue 4 dated 13 January 1976.

CERTIFICATION CATEGORY:

UK: Private, Aerial Work

PERFORMANCE CATEGORY:

UK: These airships have no performance group classification.

FLIGHT MANUAL:

The limitations, recommended procedures and information required are contained in the following CAA approved Flight and Maintenance Manual (Maintenance Manual as combined with Flight Manual):

Model	Flight Manual
D-38	Flight and Maintenance Manual for the D-38 Hot Air Airship
D-50	Flight and Maintenance Manual for the D-50 Hot Air Airship
D-96	Cameron Balloons Ltd. Flight and Maintenance Manual for Hot Air Airships

ENGINE AND PROPELLERS:

Model	Engine	Propeller
D-38	Fuji Robin 250cc 2-stroke	Hiway Hang Gliders Ltd 54" diameter, 24" pitch
D-50	Fuji Robin 250cc 2-stroke	Hiway Hang Gliders Ltd 54" diameter, 24" pitch
	Cuyuna 430cc 2 stroke	Cuyuna 54” x 26” pitch propeller
D-96	1600cc Volkswagen engine, type 126A	Hoffmann HO14-183100LD

FUEL: Fuji ‘Robin’ engine or ‘Cuyuna’ engine — 40:1 two stroke mixture - 50:1 ratio regular or premium gas-line octane number not below NON 83 or RON 90 (unleaded preferred): super two stroke oil ASTM/CEC standard TSC 3.

Volkswager 1600cc engine — Propane.

PROPANE: Three cylinders (25 imp. galls)

MAXIMUM WEIGHTS:

Model	Maximum Weight (lb)
D-38	760
D-50	1000
D-96	1786

MINIMUM CREW: One Pilot.

MAXIMUM OCCUPANTS/PASSENGERS:

Model	Max no of occupants including pilot
D-38	1
D-50	1
D-96	2 or 3 if wind speed is less than 5 kts

OPERATING LIMITATIONS: See applicable Flight Manual

MANDATORY MAINTENANCE INSTRUCTIONS: See applicable combined Flight and Maintenance Manual

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