UNITED KINGDOM CIVIL AVIATION AUTHORITY

BAS 3 Issue 3 Date August 2001 Type Skystar ('DP' Series)

TYPE CERTIFICATE DATA SHEET No. BAS 3

This data sheet which is part of CAA Type Certificate No. BAS 3 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): DP-50, DP-60, DP-70, DP-80, DP-90 Hot Air Airships

Model	Envelope Volume		Drawing	Build Standard	Date Approved
	cubic feet	cu. meters			
DP-50	50 000	1415	CB573	CB675	5-5-88
DP-60	60 000	1700	CB567	CB676	25-8-87
DP-70	70 000	1980	CB572	CB677	26-10-87
DP-80	80 000	2265	CB843	CB845	10-9-90
DP-90	90 000	2550	CB670	CB678	24-2-89

CERTIFICATION BASIS:

The following requirements were the basis of the type design:

Model	Requirements
DP-50	BCAR 31 and Paper 696
DP-60	BCAR 31 and Paper 696
DP-70	BCAR 31 and Paper 696
DP-80	BCAR 31 and Paper 696
DP-90	BCAR 31 and Paper 696

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
DP-50	Flight and Maintenance Manual ref CB/TN/TS/129
DP-60	Flight and Maintenance Manual ref CB/TN/TS/129
DP-70	Flight and Maintenance Manual ref CB/TN/TS/129
DP-80	Flight and Maintenance Manual ref CB/TN/TS/129
DP-90	Flight and Maintenance Manual ref CB/TN/TS/129

ENGINE AND PROPELLERS:

Model	Engine and Propeller
DP-50	Konig Model SD 570, 570cc and Konig 3 blade 1.32 m diameter 16° pitch
DP-60	Konig Model SD 570, 570cc and Konig 3 blade 1.32 m diameter 16° pitch,
	or
	Rotax 582UL and GSC 3 blade Model Tech III 1.5m diameter 16° pitch (at
	75 % radius
DP-70	Konig Model SD 570, 570cc and Konig 3 blade 1.32 m diameter 16° pitch,
	or
	Rotax 582UL and GSC 3 blade Model Tech III 1.5m diameter 16° pitch (at
	75 % radius)
DP-80	Konig Model SD 570, 570cc and Konig 3 blade 1.32 m diameter 16° pitch,
	or
	Rotax 582UL and GSC 3 blade Model Tech III 1.5m diameter 16° pitch (at
	75 % radius)
DP-90	Konig Model SD 570, 570cc and Konig 3 blade 1.32 m diameter 16° pitch,
	or
	Rotax 582UL and GSC 3 blade Model Tech III 1.5m diameter 16° pitch (at
	75 % radius)

FUEL:

fuel type Two stroke mixture 50:1 ratio - regular or premium gasoline octane number

not below NON 83 or RON 90 (unleaded preferred): super

two stroke oil ASTM/CEC standard TSC 3.

Fuel capacity: 5 Imp gallons

PROPANE: Two cylinders (16.7 imp. gall)

MAXIMUM WEIGHTS:

Model	Maximum Weight (lb)
DP-50	1052
DP-60	1270
DP-70	1400
DP-80	1600
DP-90	1800

NUMBER OF WHEELS AND MAXIMUM TYRE PRESSURES:

(a) Number of wheels in nose wheel unit 1

(b) Number of wheels in each main-wheel unit 1

(c) Maximum tyre pressures 32 lb_f/in²

MINIMUM CREW: One Pilot.

MAXIMUM OCCUPANTS/PASSENGERS:

Model	Maximum Occupants
DP-50	1
DP-60	2
DP-70	2
DP-80	2
DP-90	2

OPERATING LIMITATIONS: See applicable Flight Manual

MANDATORY MAINTENANCE

INSTRUCTIONS: See applicable combined Flight and Maintenance Manual