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Issue 1, 05 April 2016		

European Aviation Safety Agency

EASA

TYPE-CERTIFICATE DATA SHEET

Cameron R Series Rozière Balloons

Manned Free Rozière Balloons

Type Certificate Holder: CAMERON BALLOONS LTD.
St Johns Street
Bedminster
Bristol BS3 4NH
UNITED KINGDOM

Manufacturer: CAMERON BALLOONS LTD.
St Johns Street
Bedminster
Bristol BS3 4NH
UNITED KINGDOM

For Variants: R-77, R-90, R-200, R-210, R-270, R-450, R-550

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SECTION 1: GENERAL (ALL TYPES AND VARIANTS)

I. General

1. Data Sheet No: EASA.BA.028 Issue Date: 05 April 2016

2. Type / Variant or Model

(a) Type: Cameron R-Type(b) Variant or Model: Refer to Section 2-8

3. Airworthiness Category: Standard

4. Type Certificate Holder: CAMERON BALLOONS LTD.

St Johns Street Bedminster Bristol BS3 4NH UNITED KINGDOM

5. Manufacturer CAMERON BALLOONS LTD.

St Johns Street Bedminster Bristol BS3 4NH UNITED KINGDOM

6. EASA Certification date: 18 August 1992

7. TCDS History This TCDS supercedes UK CAA TCDS reference BB25,

Issue 1, Dated: September 2002.

II. Certification Basis

1. Reference Date for determining the applicable requirements:

18 August 1992

2. Airworthiness Requirements: Refer to Sections 2-8

♦ British Civil Airworthiness Requirements,

Part 31, issue dated 31/8/84,

€ EASA CS 31HB, Amendment 1, 05 December 2011

3. Special Conditions: Special Condition (Part 21.A.16B) Lights for Free Manned

Balloon Flights at Night Issue: 2 Date: 22 Oct 2012

4. Reversion and Exemptions: None

5. Equivalent Safety Findings: None

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III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Refer to Sections 2-8

2. Description: Manned free Rozière balloon

2.1 Envelope

Natural shape envelope with between 24 and 80 gores with vertical load tapes. Manually operated valve, and chimney rip deflation systems.

Envelopes can be fitted with additional "top tent" balloon and second reflective skin for insulation.

2.2 Baskets

Refer to Sections 2-8 and:

Cameron R-Type Flight Manual, CBL/TN/DAC/19, Issue D or later approved EASA revision.

or

Cameron Balloons Hot Air Balloon Flight Manual, and Supplements-Issue 10 or later approved EASA revision.

Note: Baskets must be in the categories listed for each variant in Sections 2-8 of this TCDS

2.3 Load Frame

Refer to Cameron R-Type Flight Manual, CBL/TN/DAC/19, Issue D or later approved EASA revision.

or

Cameron Balloons Hot Air Balloon Flight Manual, and Supplements-Issue 10 or later approved EASA revision.

Note: Load Frame must be listed as compatible with basket used.

2.4 Burner

Refer to Cameron R-Type Flight Manual, CBL/TN/DAC/19, Issue D or later approved EASA revision.

2.5 Cylinders

Refer to Cameron R-Type Flight Manual, CBL/TN/DAC/19, Issue D or later approved EASA revision.

or

Cameron Balloons Hot Air Balloon Flight Manual, and Supplements-Issue 10 or later approved EASA revision.

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3.	Minimum Equipment:	Refer to Cameron later approved EAS	R-Type Flight Manual, CBI SA revision.	_/TN/DAC/19, Issue D or
4.	Maximum Mass:	Refer to Sections 2 Note: MTOM = Ma Mass.	2-8. ximum Take-Off Mass, ML	M =Minimum Landing
5.	Minimum Crew:	One (Pilot)		
6.	Occupants:		DM and Flight Manual Limit Flight Manual, CBL/TN/DA0 vision.	
7.	Life Limited Parts:	Refer to Cameron	R-Type Maintenance Manu	ual, CBL/TN/FJD/2917,

Issue A or later approved EASA revision.

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Operation and Service Instructions

Permissible Lifting Gas:

1. Cameron R-Type Flight Manual, CBL/TN/DAC/19, Issue D or later approved EASA revision.

Helium (He)

2. Cameron R-Type Maintenance Manual, CBL/TN/FJD/2917, Issue A or later approved EASA revision.

V. Notes

8.

IV.

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- 1. For the purpose of maintenance and inspection a log book must be maintained with each R-Type balloon envelope. If the burner, basket, instruments and/or cylinders are interchanged, they must be listed in the log book of each envelope with which they are used.
- 2. Throughout this document the term "basket" applies to either a hot air balloon basket or R-Type Gondola

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SECTION 2: R-77

Manned free Rozière balloon. Natural shape, 24 gores, 24 vertical loadtapes. The envelope general assembly is defined by drawing CB973. The definition is listed in Table 2.1.

Table 2.1: R-77; Definitions, Limitations and Eligible Equipment

Model	Drawing	Volume	e: Gas	Max. Fill	мтом	Max. permitted Free lift at	Burner	Basket Cat.	Approval
Wiodei		ft³	m³	(%)	(kg) Take-off (kg	Take-off (kg)	Cat.	Dusket Gut.	Date
R-77	CB973	77 000	2 180	100	2 270	45	B, C	C, D, E, F	18-08-1992 ♦

SECTION 3: R-90

Manned free Rozière balloon. Natural shape, 24 gores, 24 vertical loadtapes. The envelope general assembly is defined by drawing CB 1411. The definition is listed in Table 3.1.

Table 3.1: R-90; Definitions, Limitations and Eligible Equipment

Na	Drawing	Volur	ne: Gas	Max. Fill	МТОМ	Max. permitted	Burner	Declar Oct	Approval
Model		ft³	m³	(%)	(kg)	Free lift at Take-off (kg)	Cat.	Basket Cat.	Date
R-90	CB1411	90 000	2 549	100	2 654	52	B, C	C, D, E, F	24-07-2002 ♦

SECTION 4: R-200

Manned free Rozière balloon. Natural shape, 32 gores, 32 vertical loadtapes. The envelope general assembly is defined by drawing CB 1153. The definition is listed in Table 4.1.

Table 4.1: R-200; Definitions, Limitations and Eligible Equipment

Madal	Drawing	Volur	ne: Gas	Max. Fill	МТОМ	Max. permitted	Burner	Declar Cor	Approval
Model		ft³	m³	(%)	(kg)	Free lift at Take-off (kg)	Cat.	Basket Cat.	Date
R-200	CB1153	200 000	5 664	75	4 423	82	B, C	C, D, E, F	02-02-1996 ♦

SECTION 5: R-210

Manned free Rozière balloon. Natural shape, 32 gores, 32 vertical loadtapes. The envelope general assembly is defined by drawing CB 1193. The definition is listed in Table 5.1.

Table 5.1: R-210; Definitions, Limitations and Eligible Equipment

Madal	Drawing	Volume: Gas Max. Fill MTC	МТОМ	Max. permitted	Burner	Packet Cat	Approval		
Model		ft³	m³	(%)	(kg)	Free lift at Take-off (kg)	Cat.	Basket Cat.	Date
R-210	CB1193	210 000	5 947	75	4 644	86	B, C	C, D, E, F	11-12-1996 ♦

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SECTION 6.1: R-270

Manned free Rozière balloon. Natural shape, 32 gores, 32 vertical loadtapes. The envelope general assembly is defined by drawing CB 1261. The definition is listed in Table 6.1.

Table 6.1: R-270; Definitions, Limitations and Eligible Equipment

Model	Drawing	Volume: Gas		Max. Fill	мтом	Max. permitted	Burner		Approval
		ft³	m³	(%)	(kg)	Free lift at Take-off (kg)	Cat.	Basket Cat.	Date
R-270	CB1261	270 000	7 646	63	5 026	92	B, C	C, D, E, F	20-11-1997 ♦

SECTION 7: R-450

Manned free Rozière balloon. Natural shape, 72 gores, 72 free loadtapes. The envelope general assembly is defined by drawing CB 1292. The definition is listed in Table 7.1.

Table 7.1: R-450; Definitions, Limitations and Eligible Equipment

Model	Drawing	Volume: Gas		Max. Fill	мтом	Max. permitted	Burner		Approval
		ft³	m³	(%)	(kg)	Free lift at Take-off (kg)	Cat.	Basket Cat.	Date
R-450	CB1292	450 000	12 744	50	6 495	120	B, C	C, D, E, F	23-04-1998 ♦

SECTION 8: R-550

Manned free Rozière balloon. Natural shape, 80 gores, 80 free loadtapes. The envelope general assembly is defined by drawing CB 1720. The definition is listed in Table 8.1.

Table 8.1: R-550; Definitions, Limitations and Eligible Equipment

Model	Drawing	Volume: Gas		Max. Fill	мтом	Max. permitted	Burner		Approval
		ft³	m³	(%)	(kg)	Free lift at Take-off (kg)	Cat.	Basket Cat.	Date
R-550	CB1720	550 000	15 574	60	9 726	170	B, C	C, D, E, F	05 April 2016 €

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