

# Civil Aviation Authority United Kingdom



## TYPE-CERTIFICATE DATA SHEET

**UK.TC.BA.00107**

for

Kubíček Factory s.r.o. Hot-Air Balloons

Type Certificate Holder  
Kubíček Factory s.r.o.  
Jarní 1003/2a  
614 00 Brno  
CZECH REPUBLIC

Manufacturers:

114 (714) ZO Svazarmu, Aviatik klub  
Hlinky 164  
602 00 Brno  
CZECH REPUBLIC

Kubíček spol. s r.o.  
Francouzská 81  
602 00 Brno  
CZECH REPUBLIC

Aerotechnik podnik ÚV Svazarmu  
686 04 Kunovice  
CZECH REPUBLIC

BALÓNY KUBÍČEK spol. s r.o.  
Francouzská 81  
602 00 Brno  
CZECH REPUBLIC

Aerotechnik p.o.s.  
686 04 Kunovice  
CZECH REPUBLIC

BALÓNY KUBÍČEK spol. s r.o.  
Jarní 1003/2a  
614 00 Brno  
CZECH REPUBLIC

Aerotechnik s.r.o.  
686 04 Kunovice  
CZECH REPUBLIC

Kubíček Factory s.r.o.  
Jarní 1003/2a  
614 00 Brno  
CZECH REPUBLIC

Model(s): BB, BB-S, Aerotechnik AB, AB2 and AB8 series

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## Section 1 BB Type

### I. General

#### 1. Type / Variant / Model

a) Type:	BB
b) Model:	O-Type: BB9, BB12, BB16, BB20, BB22, BB26
	N-Type: BB22N, BB26N, BB30N, BB37N, BB45N, BB60N
	Z-Type: BB22Z, BB26Z, BB30Z, BB34Z, BB37Z, BB40Z, BB42Z, BB45Z, BB51Z, BB60Z, BB64Z, BB70Z, BB78Z, BB85Z, BB92Z, BB100Z
	P-Type: BB105P, BB106P, BB113P, BB120P, BB130P, BB142P, BB150P, BB184P
	M-Type: BB22M, BB26M, BB30M
	GP-Type: BB17GP, BB20GP
	XR-Type: BB14XR, BB16XR, BB17XR, BB18XR, BB20XR, BB22XR, BB26XR, BB30XR
	E-Type: BB9E, BB12E, BB16E, BB18E, BB20E, BB22E, BB26E, BB30E, BB34E
	EF-Type: BB9EF, BB12EF, BB16EF
	ED-Type: BB20ED, BB22ED, BB26ED, BB30ED, BB34ED
	D-Type: BB22D, BB26D, BB30D, BB34D, BB37D, BB40D, BB42D, BB45D, BB51D, BB60D, BB70D, BB85D, BB100D

#### 2. Type Certificate Holder

Kubíček Factory s.r.o.  
Jarní 1003/2a  
614 00 Brno

#### 3. Manufacturer

Kubíček spol. s r.o.  
Francouzská 81  
602 00 Brno (S/N 1-140)

BALÓNY KUBÍČEK spol. s r.o.  
Francouzská 81  
602 00 Brno (from S/N 141 to S/N 1555)

BALÓNY KUBÍČEK spol. s r.o.  
Jarní 1003/2a  
614 00 Brno (from S/N 1555 to S/N 1999)

Kubíček Factory s.r.o.  
Jarní 1003/2a  
614 00 Brno (S/N 2000 and higher)

### II. Certification Basis

#### 1. Reference Date for determining the applicable requirements

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Refer to Section 1. VI, see Tables 1, 2, 3A, 3B

**2. CAA CZ Type Certificate Data Sheet No**

93-01

**3. UK Certification Basis**

3B

CRI A-01, issue - refer to Section Section 1. VI, see Tables 1, 2,3A,

**4. Airworthiness Standards**

Refer to Section 1. VI, see Tables 1, 2, 3A, 3B

**5. Special Conditions (SC)**

Lights for Manned Balloons Flights at Night, Issue 2, 22 October 2012

**6. Equivalent Safety Findings (ESF)**

- FAR § 31.47 (d) endurance test for KOMET DUO burner from S/N 105
- CRI E-01, issue 2, dated 15 February 2007: FAR § 31.47 (d) endurance test for IGNIS burner

**7. Deviations**

None

**III. Technical Characteristic and Operating Limitations**

**1. Type Design Definition**

Refer to Section 1. VI

**2. Description**

The free hot-air balloon with the natural shaped envelope of 900 – 18 400 m<sup>3</sup> volume, vertical, horizontal or diagonal construction with 8-32 gores. The parachute, paralite, Slide Vent, Smart Vent or Lite Vent (previous name Smart Vent+) is used for sealing of the vent aperture. As an option, the envelope can be equipped with rotation vent. As an option, the envelope can be fitted with quick link carabiners (connecting envelope load tapes and envelope wires). A single backed up, double, triple or quadruple burner is the heat source for the envelope. The basket is cane-work connected to the envelope by means of stainless-steel or kevlar wires and karabiners with a screw gate (at each attachment point – 1 carabiner for envelope wires, 1 carabiner for basket wires and optional 1 titanium ring between them). Preference of the basket and burner type shall be provided with respect to the envelope size. Stainless steel, duralumin or titanium fuel cylinders (approved models are listed in the Flight Manual), equipment and instruments are fixed on the inner side of the basket.

**3. Equipment**

- Altimeter
- A rate of climb indicator (variometer)
- Melting link for the envelope overheating check
- Fuel quantity gauge

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- Double fire equipment
- Drop line
- Fire extinguisher
- Heat-resistant cloth

#### 4. Envelope

Refer to Section 1. VI, see Table 1, 4 and 5 (see *Note 5*)

#### 5. Burner

Refer to Section 1. VI, see Table 2, 4 and 5

#### 6. Basket

Refer to Section 1. VI, see Table 3A, 3B and 4

#### 7. Fuel Cylinder

Refer to Section 1. VI, see Table 6

#### 8. Mass

Maximum take-off weight: Refer to Section VI, see Table 1

#### 9. Envelope Temperature

The envelope temperature must not exceed 124°C

#### 10. Minimum Flight Crew

1 Pilot

#### 11. Maximum Number of persons on board

In accordance with approved Flight Manual

#### 12. Other Limitations

The balloon is approved for VFR-Day flight, (see *Note 3* for details)

### IV. Operating and Service Instructions

#### 1. Applicable to the balloons up to S/N 639 inclusive:

Flight Manual for use with the hot air balloon (Document No.: B.0102)  
- revision 11 or later CAA approved revision, see Section 1. VI, Table 1

Letová příručka pro horkovzdušný balón (Dokument č.: B.0101)  
- initial issue or later approved revision

#### 2. Applicable to the balloons up to S/N 639 inclusive and burners up to S/N 470 inclusive:

Maintenance Manual for use with the hot air balloon (Document No.: B.0202)  
- revision 5 or later accepted revision, see Section 1. VI, Table 1

Příručka pro údržbu horkovzdušného balónu (Dokument č.: B.0201)  
- initial issue or later approved revision

#### 3. Applicable to the balloons from S/N 640:

Flight Manual for use with the hot air balloon (Document No.: B.2102)  
- initial issue or later approved revision, see Section 1. VI, Table 1

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4. Applicable to the balloons from S/N 640 and burners from S/N 471:  
Maintenance Manual for use with the hot air balloon (Document No.: B.2202)  
- initial Issue or later approved revision, see Section 1. VI, Table 1

OR

5. Applicable to all S/N  
Flight Manual for use with the hot air balloon (Document No.: B.3102)  
- initial issue or later CAA approved revision  
Maintenance Manual for use with the hot air balloon (Document No.: B.3202)  
- initial issue or later UK CAA approved revision

## V. Notes

1. Applicable range of balloon parts or equipment from the other manufacturers – see the Optional Bulletin No. BB/22b-1.
2. The designation of following models: BB22; BB26; BB30; BB37; BB45; BB60 have been changed since the applicability of the Change No. 5 of this TCDS by adding capital letter 'N' to the model designation. The capital letter defines the cutting style. New designation is as follows: BB22N; BB26N; BB30N; BB37N; BB45N; BB60N.
3. The BB balloons are limited to VFR day flights unless an approved set of position lights and the appropriate supplement to the Flight Manual are used:
  - applicable to the balloons up to S/N 639 inclusive: FMS Night Flying (Document No. B.0102-NF)
  - applicable to the balloons from S/N 640: FMS Night Flying (Document No. B.2102-NF)
4. Due to the similarity of design, certain bottom ends manufactured by Cameron Balloons US, Lindstrand Balloons USA, UltraMagic, Aerostar International and FireFly may be used in conjunction with a Kubiček Factory s.r.o. manufactured envelope. This installation is subject to the operations and limitations given in the approved Kubiček Factory s.r.o. balloon Flight Manual Supplements B.3105-FMS\_USBEC (Cameron), B.3105-FMS\_USBEL (Lindstrand), B.3105-FMS\_USBEU (UltraMagic), B.3105-FMS\_USBEA (Aerostar) and B.3105-FMS\_USBEF (FireFly) or later amendments. These supplements are required equipment and must be carried onboard the aircraft.
5. For information about suitable burner frame for each approved balloon configuration refer to the latest applicable revision of the Flight Manual.

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## VI. BB Type Definition and Certification Data

Table 1: Envelopes

Variant	Volume [m <sup>3</sup> ]	Gores [pcs.]	MTOM [kg]	Reference date	Certification basis	Airworthiness requirements	AFM/MM applicable revision:		Drawing No.	Approved by
							up to S/N 639	from S/N 640		
BB9	900	8 O-type	295	4.2.2009	<u>CRI A-01</u> 27.2.2009	FAR 31, Amdt. 31-7, May 24, 1996	---	5/1	53650.00 10.03.2009	EASA
BB9E	900	8 E-type	295	28.7.2016	<u>CRI A-01</u> 11.8.2016	FAR 31, Amdt. 31-7, May 24, 1996	---	26/13	55550.00 24.10.2016	EASA
BB9EF	900	12 Z-type	295	18.9.2020	<u>CRI A-01</u> 28.10.2020	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	---	11/5	54170.00 30.9.2020	EASA
BB12	1 200	8 O-type	385	8.7.1992	---	FAR 31, Amdt. 31-4, September 11, 1980	11/5	0/0	50002.00 10.3.1993	EASA
BB12E	1200	8 E-type	385	28.7.2016	<u>CRI A-01</u> 11.8.2016	FAR 31, Amdt. 31-7, May 24, 1996	---	26/13	55560.00 24.10.2016	EASA
BB12EF	1200	12 Z-type	385	18.9.2020	<u>CRI A-01</u> 28.10.2020	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	---	11/5	54180.00 30.9.2020	EASA
BB14XR	1400	16 Z-type	420	13.1.2021	<u>CP_XR-type,</u> <u>rev.0</u> <u>30.4.2021</u>	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	---	12/5	54220.00 13.1.2021	EASA – under the DOA privilege 21.A.263(c)(8)
BB16	1 600	8 O-type	470	8.7.1992	---	FAR 31, Amdt. 31-4, September 11, 1980	11/5	0/0	50013.00 10.3.1993	EASA
BB16E	1600	8 E-type	470	28.7.2016	<u>CRI A-01</u> 11.8.2016	FAR 31, Amdt. 31-7, May 24, 1996	---	26/13	55570.00 24.10.2016	EASA
BB16EF	1600	12 Z-type	470	18.9.2020	<u>CRI A-01</u> 28.10.2020	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	---	11/5	54190.00 30.9.2020	EASA
BB16XR	1600	16 Z-type	470	13.1.2021	<u>CP_XR-type,</u> <u>rev.0</u> <u>30.4.2021</u>	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	---	12/5	54230.00 13.1.2021	EASA – under the DOA privilege 21.A.263(c)(8)
BB17GP	1 700	16 Z-type	495	4.2.2008	<u>CRI A-01</u> 4.3.2008	FAR 31, Amdt. 31-7, May 24, 1996	13/8	0/0	52860.00 1.2.2008	EASA
BB17XR	1 700	16 Z-type	495	8.7.2007	<u>CRI A-01</u> 23.7.2009	FAR 31, Amdt. 31-7, May 24, 1996	---	6/2	53660.00 10.7.2009	EASA
				13.1.2021	<u>CP_XR-type,</u> <u>rev.0</u> <u>30.4.2021</u>	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	---	12/5	53660.00   13.1.2021	EASA – under the DOA privilege 21.A.263(c)(8)
BB18E	1800	12 E-type	550	28.7.2016	<u>CRI A-01</u> 11.8.2016	FAR 31, Amdt. 31-7, May 24, 1996	---	26/13	55580.00 24.10.2016	EASA
BB18XR	1800	16 Z-type	570	18.11.2022	<u>CP_BB18XR</u> <u>BB20XR</u> <u>2.1.2023</u>	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	---	15/6	54240.00 18.11.2022	EASA – under the DOA privilege 21.A.263(c)(8)
BB20	2 000	12 O-type	630	8.7.1992	---	FAR 31, Amdt. 31-4, September 11, 1980	11/5	0/0	50020.00 10.3.1993	EASA
BB20E	2 000	12 E-type	630	11.9.2008	<u>CRI A-01</u> 24.9.2008	FAR 31, Amdt. 31-7, May 24, 1996	15/10	0/0	53630.00 18.9.2008	EASA
BB20GP	2 000	24 Z-type	730	8.7.1992	---	FAR 31, Amdt. 31-7, May 24, 1996	11/5	0/0	52740.00 21.5.2002	EASA

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BB20XR	2 000	20 Z-type	730	8.1.2008	<u>CRI A-01</u> 10.6.2008	FAR 31, Amdt. 31-7, May 24, 1996	14/9	0/0	54140.00 28.1.2008	EASA
		16 Z-type		18.11.2022	<u>CP_BB18XR</u> <u>BB20XR</u> <u>2.1.2023</u>	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	---	15/6	54140.00_o 18.11.2022	EASA – under the DOA privilege 21.A.263(c)(8)
BB20ED	2 000	12 ED-type	630	5.1.2012	<u>CRI A-01</u> 30.1.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55330.00 2.8.2012	EASA
BB22	2 200	12 O-type	730	2.2.2007	<u>CRI A-01</u> 12.3.2007	FAR 31, Amdt. 31-7, May 24, 1996	11/8	0/0	53310.00 15.3.2007	EASA
BB22E	2 200	12 E-type	680	11.9.2008	<u>CRI A-01</u> 24.9.2008	FAR 31, Amdt. 31-7, May 24, 1996	15/10	0/0	53620.00 18.9.2008	EASA
BB22N	2 200	24 N-type	730	8.7.1992	---	FAR 31, Amdt. 31-4, September 11, 1980	11/5	0/0	50034.00 10.3.1993	EASA
BB22Z	2 200	24 Z-type	730	19.8.2006	<u>CRI A-01</u> 6.11.2006	FAR 31, Amdt. 31-7, May 24, 1996	11/8	0/0	53300.00 12.7.2006	EASA
BB22M	2 200	12 M-type	680	13.1.2022	<u>CP M-type</u> <u>rev.0</u> <u>30.4.2022</u>	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	---	14/7	55670.00 13.1.2022	EASA – under the DOA privilege 21.A.263(c)(8)
BB22XR	2 200	24 Z-type	780	15.6.2012	<u>CRI A-01</u> 2.7.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	16/6	55400.00 3.7.2012	EASA
BB22ED	2 200	12 ED-type	680	5.1.2012	<u>CRI A-01</u> 30.1.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55340.00 2.8.2012	EASA
BB22D	2 200	24 D-type	730	5.1.2012	<u>CRI A-01</u> 17.2.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55200.00 2.8.2012	EASA
BB26	2 600	12 O-type	840	2.2.2007	<u>CRI A-01</u> 12.3.2007	FAR 31, Amdt. 31-7, May 24, 1996	11/8	0/0	53325.00 15.3.2007	EASA
BB26N	2 600	24 N-type	840	8.7.1992	---	FAR 31, Amdt. 31-4, September 11, 1980	15/10	0/0	50027.00 10.3.1993	EASA
BB26E	2 600	12 E-type	730	11.9.2008	<u>CRI A-01</u> 24.9.2008	FAR 31, Amdt. 31-7, May 24, 1996	11/5	0/0	53610.00 18.9.2008	EASA
BB26Z	2 600	24 Z-type	840	19.8.2006	<u>CRI A-01</u> 6.11.2006	FAR 31, Amdt. 31-7, May 24, 1996	11/8	0/0	53305.00 12.7.2006	EASA
BB26M	2 600	12 M-type	730	13.1.2022	<u>CP M-type</u> <u>rev.0</u> <u>30.4.2022</u>	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	---	14/7	55680.00 13.1.2022	EASA – under the DOA privilege 21.A.263(c)(8)
BB26XR	2 600	24 Z-type	840	15.6.2012	<u>CRI A-01</u> 2.7.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	16/6	55410.00 3.7.2012	EASA
BB26ED	2 600	12 ED-type	730	5.1.2012	<u>CRI A-01</u> 30.1.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55350.00 2.8.2012	EASA
BB26D	2 600	24 D-type	840	5.1.2012	<u>CRI A-01</u> 17.2.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55210.00 2.8.2012	EASA
BB30N	3 000	24 N-type	945	8.7.1992	---	FAR 31, Amdt. 31-4, September 11, 1980	11/5	0/0	50041.00 10.3.1993	EASA
BB30Z	3 000	24 Z-type	945	8.7.1992	---	FAR 31, Amdt. 31-7, May 24, 1996	11/5	0/0	52640.00 15.10.2001	EASA
BB30M	3000	12 M-type	840	13.1.2022	<u>CP M-type</u> <u>rev.0</u> <u>30.4.2022</u>	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	---	14/7	55690.00 13.1.2022	EASA – under the DOA privilege 21.A.263(c)(8)
BB30XR	3 000	24 Z-type	945	15.6.2012	<u>CRI A-01</u> 2.7.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	16/6	55420.00 3.7.2012	EASA
BB30E	3000	12 E-type	840	28.7.2016	<u>CRI A-01</u> 11.8.2016	FAR 31, Amdt. 31-7, May 24, 1996	---	26/13	55560.00 24.10.2016	EASA

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BB30ED	3 000	12 ED-type	840	5.1.2012	<u>CRI A-01</u> 30.1.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55360.00 2.8.2012	EASA
BB30D	3 000	24 D-type	945	5.1.2012	<u>CRI A-01</u> 17.2.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55220.00 2.8.2012	EASA
BB34Z	3 400	24 Z-type	1040	20.4.2006	<u>CRI A-01</u> 17.7.2006	FAR 31, Amdt. 31-7, May 24, 1996	11/7	0/0	52880.00 18.5.2005	EASA
BB34E	3400	12 E-type	945	28.7.2016	<u>CRI A-01</u> 11.8.2016	FAR 31, Amdt. 31-7, May 24, 1996	---	26/13	55600.00 24.10.2016	EASA
BB34ED	3 400	12 ED-type	945	5.1.2012	<u>CRI A-01</u> 30.1.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55370.00 2.8.2012	EASA
BB34D	3 400	24 Z-type	1040	5.1.2012	<u>CRI A-01</u> 17.2.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55230.00 2.8.2012	EASA
BB37N	3 700	24 N-type	1150	8.7.1992	---	FAR 31, Amdt. 31-4, September 11, 1980	11/5	0/0	50048.00 10.3.1993	EASA
BB37Z	3 700	24 Z-type	1150	19.8.2006	<u>CRI A-01</u> 6.11.2006	FAR 31, Amdt. 31-7, May 24, 1996	11/8	0/0	53315.00 12.7.2006	EASA
BB37D	3 700	24 D-type	1150	5.1.2012	<u>CRI A-01</u> 17.2.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55240.00 2.8.2012	EASA
BB40Z	4 000	24 Z-type	1310	4.11.2008	<u>CRI A-01</u> 11.12.2008	FAR 31, Amdt. 31-7 May 24, 1996	---	0/0	53640.00 20.11.2008	EASA
BB40D	4 000	24 D-type	1310	5.1.2012	<u>CRI A-01</u> 17.2.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55250.00 2.8.2012	EASA
BB42Z	4 250	24 Z-type	1410	4.10.2002	---	FAR 31, Amdt. 31-7, May 24, 1996	11/5	0/0	52950.00 26.10.2003	EASA
BB42D	4 250	24 D-type	1410	5.1.2012	<u>CRI A-01</u> 17.2.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55260.00 2.8.2012	EASA
BB45N	4 500	24 N-type	1520	29.2.1996	---	FAR 31, Amdt. 31-5, August 18, 1990	11/5	0/0	50455.00 10.3.1993	EASA
BB45Z	4 500	24 Z-type	1520	19.8.2006	<u>CRI A-01</u> 6.11.2006	FAR 31, Amdt. 31-7, May 24, 1996	11/8	0/0	53320.00 12.7.2006	EASA
BB45D	4 500	24 D-type	1520	5.1.2012	<u>CRI A-01</u> 17.2.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55270.00 2.8.2012	EASA
BB51Z	5 100	24 Z-type	1690	20.10.2006	<u>CRI A-01</u> 14.2.2007	FAR 31, Amdt. 31-7, May 24, 1996	11/8	0/0	53430.00 24.10.2006	EASA
BB51D	5 100	24 D-type	1690	5.1.2012	<u>CRI A-01</u> 17.2.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55280.00 2.8.2012	EASA
BB60N	6 000	32 N-type	1940	11.2.1998	---	FAR 31, Amdt. 31-4, September 11, 1980	11/5	0/0	50643.00 20.4.1998	EASA
BB60Z	5 950	24 Z-type	1940	18.1.2005	<u>CRI A-01</u> 4.4.2006	FAR 31, Amdt. 31-7, May 24, 1996	11/7	0/0	53000.00 1.12.2004	EASA
BB60D	5 950	24 D-type	1940	5.1.2012	<u>CRI A-01</u> 17.2.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55290.00 2.8.2012	EASA
BB64Z	6 400	24 Z-type	2100	28.7.2016	<u>CRI A-01</u> 11.8.2016	FAR 31, Amdt. 31-7, May 24, 1996	---	25/13	55490.00 18.8.2016	EASA
BB70Z	7 000	24 Z-type	2300	8.3.2004	---	FAR 3, Amdt. 31-7, May 24, 1996	11/5	0/0	52990.00 24.5.2004	EASA
BB70D	7 000	24 D-type	2300	5.1.2012	<u>CRI A-01</u> 17.2.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55300.00 2.8.2012	EASA
BB78Z	7 800	24 Z-type	2600	28.7.2016	<u>CRI A-01</u> 11.8.2016	FAR 31, Amdt. 31-7, May 24, 1996	---	25/13	55470.00 18.8.2016	EASA
BB85Z	8 500	28 Z-type	2820	18.1.2005	<u>CRI A-01</u> 3.3.2005	FAR 31, Amdt. 31-7, May 24, 1996	11/6	0/0	52850.00 1.2.2005	EASA
BB85D	8 500	28 D-type	2820	5.1.2012	<u>CRI A-01</u> 17.2.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55310.00 2.8.2012	EASA

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Variant	Volume [m³]	Gores [pcs.]	MTOM [kg]	Reference date	Certification basis	Airworthiness requirements	AFM/MM applicable revision:		Drawing No.	Approved by
							up to S/N 639	from S/N 640		
<b>BB92Z</b>	9 200	28 Z-type	3000	28.7.2016	<u>CRI A-01</u> 11.8.2016	FAR 31, Amdt. 31-7, May 24, 1996	---	25/13	55500.00 18.8.2016	EASA
<b>BB100Z</b>	10 000	28 Z-type	3200	24.2.2009	<u>CRI A-01</u> 10.3.2009	FAR 31, Amdt. 31-7, May 24, 1996	---	2/0	54100.00 10.12.2007	EASA
<b>BB100D</b>	10 000	28 D-type	3200	5.1.2012	<u>CRI A-01</u> 17.2.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55320.00 2.8.2012	EASA
<b>BB105P</b>	10 500	28 Z-type	3500	28.7.2016	<u>CRI A-01</u> 11.8.2016	FAR 31, Amdt. 31-7, May 24, 1996	---	26/13	55510.00 24.10.2016	EASA
<b>BB106P</b>	10 600	28 Z-type	3500	28.7.2016	<u>CRI A-01</u> 11.8.2016	FAR 31, Amdt. 31-7, May 24, 1996	---	26/13	55520.00 24.10.2016	EASA
<b>BB113P</b>	11 300	28 Z-type	3600	28.7.2016	<u>CRI A-01</u> 11.8.2016	FAR 31, Amdt. 31-7, May 24, 1996	---	26/13	55530.00 24.10.2016	EASA
<b>BB120P</b>	12 000	28 Z-type	3700	8.7.2009	<u>CRI A-01</u> 16.7.2009	FAR 31, Amdt. 31-7, May 24, 1996	---	7/2	54120.00 1.7.2009	EASA
<b>BB130P</b>	13 000	28 Z-type	4200	28.7.2016	<u>CRI A-01</u> 11.8.2016	FAR 31, Amdt. 31-7, May 24, 1996	---	26/13	55540.00 24.10.2016	EASA
<b>BB142P</b>	14 200	32 Z-type	4500	15.01.2010	<u>CRI A-01</u> 09.02.2010	FAR 31, Amdt. 31-7, May 24, 1996	---	9/4	54260.00 19.2.2010	EASA
<b>BB150P</b>	15 000	32 Z-type	4800	25.9.2019	<u>CRI A-01</u> 04.10.2019	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	---	8/4	55630.00 18.11.2019	EASA
<b>BB184P</b>	18 400	32 Z-type	5095	22.05.2019	<u>CRI A-01</u> 02.10.2019	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	---	6/2	54290.00 3.4.2019	EASA

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**Table 2: Burners**

Model	Reference date	Certification basis	Airworthiness requirements	Drawing No. *	Applicable burner frames	Approved by
H3	8.7.1992	---	FAR 31, Amdt. 31-4 September 11, 1980	50178.00 10.3.1993	Fixed Frame - H3 type	EASA
H3-D	8.7.1992	---	FAR 31, Amdt. 31-4 September 11, 1980	50306.00 7.3.1994	Fixed Frame - H3 - type	EASA
HB2	8.7.1992	---	FAR 31, Amdt. 31-4, September 11, 1980	50450.00 12.1.1999	Fixed Frame - H7 type	EASA
KOMET DUO up to S/N 104 including	8.7.1992	---	FAR 31, Amdt. 31-4 September 11, 1980	50676.00 16.4.1999	Fixed Frame - basic	EASA
KOMET DUO from S/N 105	8.7.1992	---	FAR 31, Amdt. 31-7 May 24, 1996	50676.01 Modification No. 99BB 22.7.2002	Fixed / Vario Frame - basic, K25P	EASA
H4	29.2.1994	---	FAR 31, Amdt. 31-4 September 11, 1980	50179.00 10.3.1993	Fixed Frame - H4 type	EASA
KOMET TRIO	4.10.2002	---	FAR 31, Amdt. 31-7 May 24, 1996	53010.00 30.9.2003	Fixed Frame - K25P, K32T, K40Y - type	EASA
IGNIS	16.11.2005	<u>CRI A-01</u> 15.2.2007	FAR 31, Amdt. 31-7, May 24, 1996	53115.00 53100.00 53101.00 56000.00	Fixed / Vario frame - Basic K25P, K32T, K32TT, K50TT, K40Y, K50, K60, K60 STRONG, K70, K80, K100, K100 STRONG	EASA
SIRIUS	3.7.2018	<u>CRI A-01</u> 19.7.2018	FAR 31, Amdt. 31-7, May 24, 1996 CS-31HB/1(5/12/2011)	57880.00	Fixed frame - Sirius	EASA

\* suffix .00 may change to different numbers representing detailed specification of the product.

**Table 3A: Baskets (basket s/n from 400 and higher)<sup>1</sup>**

Model	Reference date	Dimension	Certification basis	Airworthiness requirements	Drawing No. *	Applicable burner frames	Approved by
K7	8.7.1992	0.85 x 0.85m, height 1.10 m	---	FAR 31, Amdt. 31-4 September 11, 1980	50072.00 10.3.1993	Fixed Frame - H3 type Fixed / Vario Frame - basic	EASA
K10	10.3.2011	0.86 x 1.16 m, height 1.10 m	<u>CRI A-1</u> 30.3.2011	FAR 31, Amdt. 31-7 May 24, 1996	50097.00 rev.e 27.7.2011	Fixed Frame - H3 type Fixed / Vario Frame - basic	EASA
K10S	29.10.2018	0.86 x 1.16 m, height 1.0 m	<u>CRI A-1</u> 3.1.2019	FAR 31, Amdt. 31-7 May 24, 1996	57860.00 3.1.2019	Fixed Frame - H3 type Fixed / Vario Frame - basic	EASA
K11	10.1.2008	0.98 x 1.16 m, height 1,10 m	<u>CRI A-1</u> 29.1.2008	FAR 31, Amdt. 31-7 May 24, 1996	54200.00 21.1.2008	Fixed / Vario Frame - basic	EASA
K12	8.7.1992	1.16 x 1.16 m, height 1.10 m	---	FAR 31, Amdt. 31-4 September 11, 1980	50556.00 10.3.1993	Fixed / Vario Frame - basic	EASA
K12A	8.7.1992	1.16 x 1.16 m, height 1.10 m	---	FAR 31, Amdt. 31-4 September 11, 1980	50556.02 10.3.1993	Fixed / Vario Frame - basic	EASA
K13	10.1.2008	1.16 x 1.25 m, height 1.10 m	<u>CRI A-1</u> 29.1.2008	FAR 31, Amdt. 31-7 May 24, 1996	54300.00 21.1.2008	Fixed / Vario Frame - basic	EASA
K13S	10.3.2011	1.00 x 1.2 m, height 1.0 m	<u>CRI A-1</u> 30.3.2011	FAR 31, Amdt. 31-7 May 24, 1996	54450.00 rev.c 15.9.2010	Fixed / Vario Frame - basic	EASA
K14	29.10.2018	1.35 x 1.16 m, height 1.10 m	<u>CRI A-1</u> 3.1.2019	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	57850.00 3.1.2019	Fixed / Vario Frame - basic	EASA
K15	10.3.2011	1.16 x 1.35 m, height 1.10 m	<u>CRI A-1</u> 30.3.2011	FAR 31, Amdt. 31-7 May 24, 1996	50111.00 rev.f 13.6.2011	Fixed / Vario Frame - basic	EASA
K16	10.3.2011	1.16 x 1.45 m, height 1.10 m	<u>CRI A-1</u> 30.3.2011	FAR 31, Amdt. 31-7 May 24, 1996	50125.00 rev.f 20.5.2011	Fixed / Vario Frame - basic	EASA
K17	10.1.2008	1.16 x 1.45m, height 1.10 m	<u>CRI A-1</u> 29.1.2008	FAR 31, Amdt. 31-7 May 24, 1996	54400.00 21.1.2008	Fixed / Vario Frame - basic	EASA
K18	8.7.1992	1.16 x 1.55 m, height 1.10 m	---	FAR 31, Amdt. 31-4 September 11, 1980	50135.00 10.3.1993	Fixed / Vario Frame - basic	EASA
K19	5.4.2016	1.16 x 1.55 m, height 1.10 m	<u>CRI A-1</u> 27.11.2015	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	57300.00 21.3.2016	Fixed / Vario Frame - basic	EASA
K19L	5.4.2016	1.16 x 1.62 m, height 1.10 m	<u>CRI A-1</u> 27.11.2015	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	57330.00 21.3.2016	Fixed / Vario Frame - basic	EASA
K22	10.3.2011	1.25 x 1.80 m, height 1.10 m	<u>CRI A-1</u> 30.3.2011	FAR 31, Amdt. 31-7 May 24, 1996	52680.00 rev.a 14.2.2011	Fixed / Vario Frame - basic	EASA
K23	5.4.2016	1.25 x 1.8 m, height 1.10 m	<u>CRI A-1</u> 27.11.2015	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	57350.00 21.3.2016	Fixed Frame – K23 - type	EASA
K25P	10.3.2011	1.25 x 2.10 m, height 1.10 m P-Partition	<u>CRI A-1</u> 30.3.2011	FAR 31, Amdt. 31-7 May 24, 1996	52650.00 rev.d 22.2.2011	Fixed Frame - K25P - type	EASA

<sup>1</sup> for differences of baskets of s/n up to 399 see table 3B

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Model	Reference date	Dimension	Certification basis	Airworthiness requirements	Drawing No. *	Applicable burner frames	Approved by
K28	13.8.2011	1.60 x 2.20 m, height 1.10 m	<u>CRI A-1</u> <u>15.6.2011</u>	CS-31HB 27/02/2009 FAR 31, Amdt. 31-7 May 24, 1996	57100.00 1.6.2011	Fixed Frame - K32T - type	EASA
K28H	5.4.2016	1.6x 2.35 m, height 1.10 m	<u>CRI A-1</u> <u>27.11.2015</u>	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	57400.00 21.3.2016	Fixed Frame - K32T - type	EASA
K30PP	5.4.2016	1.25 x 2.6 m height 1.10 m, PP partition	<u>CRI A-1</u> <u>27.11.2015</u>	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	57450.00 21.3.2016	Fixed Frame – K30PP - type	EASA
K32T	10.3.2011	1.60 x 2.40 m, height 1.10 m, T-Partition	<u>CRI A-1</u> <u>30.3.2011</u>	FAR 31, Amdt. 31-7 May 24, 1996	53050.00 rev.c 25.1.2011	Fixed Frame - K32T - type	EASA
K32Y	13.8.2011	1.60 x 2.40 m, height 1.10 m, Y-Partition	<u>CRI A-1</u> <u>15.6.2011</u>	CS-31HB 27/02/2009 FAR 31, Amdt. 31-7 May 24, 1996	53050.02 1.8.2011	Fixed Frame - K32T - type	EASA
K32TT	13.4.2010	1.60 x 2.50 m, height 1.10 m, TT-Partition	<u>CRI A-1</u> <u>3.5.2010</u>	CS-31HB 27/02/2009 FAR 31, Amdt. 31-7 May 24, 1996	54950.00 15.6.2010	Fixed Frame - K32TT - type K50TT - type	EASA
K40T	10.3.2011	1.60 x 2.70 m, height 1.10 m, T-Partition	<u>CRI A-1</u> <u>30.3.2011</u>	CS-31HB 27/02/2009 FAR 31, Amdt. 31-7 May 24, 1996	52090.02 rev.a 10.3.2011	Fixed Frame K50 – type	EASA
K40Y	10.3.2011	1.60 x 2.70 m, height 1.10 m, Y-Partition	<u>CRI A-1</u> <u>30.3.2011</u>	FAR 31, Amdt. 31-7 May 24, 1996	52090.00 rev.j 10.3.2011	Fixed Frame K50 – type	EASA
K40TTA	29.10.2018	2.7 x 1.60 m, height 1.10 m TT-partition	<u>CRI A-1</u> <u>3.1.2019</u>	CS-31HB Amdt 1 05/12/2011 FAR 31, Amdt. 31-7 May 24, 1996	57800.00 3.1.2019	Fixed Frame – K50 – type	EASA
K50	16.1.2008	1.60 x 3.00 m, height 1.10 m, Y-partition or T-partition	<u>CRI A-1</u> <u>8.2.2008</u>	CS-31HB (NPA No 07-2008)	54500.00 9.6.2008	Fixed Frame K50 – type	EASA
K50TT	13.4.2010	1.60 x 3.00 m, height 1.10 m, TT-partition	<u>CRI A-1</u> <u>3.5.2010</u>	CS-31HB 27/02/2009 FAR 31, Amdt. 31-7 May 24, 1996	54900.00 15.6.2010	Fixed Frame - K32TT – type K50TT - type	EASA
K50TTA	29.10.2018	3.0 x 1.60 m, height 1.10 m TT-partition	<u>CRI A-1</u> <u>3.1.2019</u>	CS-31HB Amdt 1 05/12/2011 FAR 31, Amdt. 31-7 May 24, 1996	57810.00 3.1.2019	Fixed Frame – K50TT – type	EASA
K50TT8	5.4.2016	1.60 x 3.00 m, height 1.10 m, TT-partition	<u>CRI A-1</u> <u>27.11.2015</u>	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	54900.03 21.3.2016	Fixed Frame K60 – type K60 STRONG - type	EASA
K55X	5.4.2016	1.60 x 3.45m, height 1.10 m	<u>CRI A-1</u> <u>27.11.2015</u>	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	57500.00 21.3.2016	Fixed Frame K60X – type	EASA
K55TTA	29.10.2018	3.40 x 1.60 m, height 1.10 m TT-partition	<u>CRI A-1</u> <u>3.1.2019</u>	CS-31HB Amdt 1 05/12/2011 FAR 31, Amdt. 31-7 May 24, 1996	57820.00 3.1.2019	Fixed Frame – K60 – type K60 STRONG - type	EASA
K58HH	5.4.2016	1.60 x 3.80 m, height 1.10 m, HH-partition	<u>CRI A-1</u> <u>27.11.2015</u>	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	57550.00 21.3.2016	Fixed Frame K60 – type K60 STRONG - type	EASA
K60	10.3.2011	1.60 x 3.80 m height 1.10 m, TT-partition	<u>CRI A-1</u> <u>30.3.2011</u>	CS-31HB (NPA No 07-2008)	54600.00 rev.a 11.4.2011	Fixed Frame K60 – type K60 STRONG - type	EASA

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Model	Reference date	Dimension	Certification basis	Airworthiness requirements	Drawing No. *	Applicable burner frames	Approved by
K60X	5.4.2016	1.60 x 3.90m, height 1.10 m	<u>CRI A-1</u> 27.11.2015	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	57600.00 21.3.2016	Fixed Frame K60X – type	EASA
K65TTA	29.10.2018	4.1 x 1.60 m, height 1.10 m TT-partition	<u>CRI A-1</u> 3.1.2019	CS-31HB Amdt 1 05/12/2011 FAR 31, Amdt. 31-7 May 24, 1996	57830.00 3.1.2019	Fixed Frame – K60 – type K60 STRONG - type	EASA
K70	10.3.2011	1.60 x 4.40 m height 1.10 m, TT-partition	<u>CRI A-1</u> 30.3.2011	CS-31HB 27/02/2009	54850.00 rev.a 10.5.2011	Fixed Frame K60 – type K60 STRONG - type	EASA
K70TTA	29.10.2018	4.4 x 1.60 m, height 1.10 m TT-partition	<u>CRI A-1</u> 3.1.2019	CS-31HB Amdt 1 05/12/2011 FAR 31, Amdt. 31-7 May 24, 1996	57840.00 3.1.2019	Fixed Frame – K60 – type K60 STRONG - type	EASA
K80	10.3.2011	1.60 x 4.80 m height 1.10 m, TT-partition	<u>CRI A-1</u> 30.3.2011	CS-31HB 27/02/2009	54800.00 rev.a 5.9.2011	Fixed Frame K60 – type K60 STRONG - type	EASA
K85	03.01.2012	1.6x5.2 m height 1.10 m TT-partition	<u>CRI A-1</u> <u>23.1.2012</u>	CS-31HB Amdt 1 05/12/2011 FAR 31, Amdt. 31-7 May 24, 1996	57150.00 19.01.2012	Fixed Frame - K100 type K100 STRONG - type	EASA
K90	03.01.2012	1.6x5.2 m height 1.10 m DTT-partition	<u>CRI A-1</u> <u>23.1.2012</u>	CS-31HB Amdt 1 05/12/2011 FAR 31, Amdt. 31-7 May 24, 1996	57250.00 19.01.2012	Fixed Frame - K100 type K100 STRONG - type	EASA
K100	26.3.2010	1.60 x 6.10 m height 1.10 m, TT partition	<u>CRI A-1</u> 21.4.2010	CS-31HB 27/02/2009 FAR 31, Amdt. 31-7 May 24, 1996	54890.00 1.9.2010	Fixed Frame - K100 type K100 STRONG - type	EASA
K110	26.3.2010	1.60 x 6.60 m height 1.10 m, TT partition	<u>CRI A-1</u> 21.4.2010	CS-31HB 27/02/2009 FAR 31, Amdt. 31-7 May 24, 1996	54980.00 19.11.2010	Fixed Frame - K100 type K100 STRONG - type	EASA

\* suffix .00 may change to different numbers representing detailed specification of the product.

**Table 3B: Baskets (S/N up to 399)**

Model	Reference date	Dimension	Certification basis	Airworthiness requirements	Drawing document No.	Applicable burner frames
K7	8.7.1992	0.85 x 0.85m, height 1.10 m	---	FAR 31, Amdt. 31-4 September 11, 1980	50072.00 10.3.1993	Fixed Frame - H3 type Fixed / Vario Frame - basic
K10	8.7.1992	0.85x1.00 m, height 1.10 m	---	FAR 31, Amdt. 31-4 September 11, 1980	50097.00 10.3.1993	Fixed Frame - H3 type Fixed / Vario Frame - basic
K13S	14.11.2008	0.95 x 1.26 m height 1.10 m	<u>CRI A-1</u> 17.3.2009	FAR 31, Amdt. 31-7 May 24, 1996	54450.00 1.4.2009	Fixed / Vario Frame - basic
K15	8.7.1992	1.16x1.25 m, height 1.10 m	---	FAR 31, Amdt. 31-4 September 11, 1980	50111.00 10.3.1993	Fixed / Vario Frame - basic
K16	8.7.1992	1.16x1.40 m, height 1,10 m	---	FAR 31, Amdt. 31-4 September 11, 1980	50125.00 10.3.1993	Fixed / Vario Frame - basic
K22	8.7.1992	1.25x1.79 m, height 1.10 m	---	FAR 31, Amdt. 31-7 May 24, 1996	52680.00 19.7.2002	Fixed / Vario Frame - basic
K25P	8.7.1992	1.25x2.08 m, height 1.10 m P-Partition	---	FAR 31, Amdt. 31-7 May 24, 1996	52650.00 28.11.2001	Fixed Frame - K25P - type
K32T	4.10.2002	1.25x2.41m, height 1.15 m T-Partition	---	FAR 31, Amdt. 31-7 May 24, 1996	53050.00 30.7.2004	Fixed Frame - K32T - type
K40T	29.2.1996	1.63x2.50 m, height 1.15 m Y-Partition	---	FAR 31, Amdt. 31-7 May 24, 1996	52090.02 12.4.2000	Fixed Frame - K40Y - type, Fixed Frame K50 - type
K40Y	29.2.1996	1.63x2.50 m, height 1.15 m Y-Partition	---	FAR 31, Amdt. 31-7 May 24, 1996	52090.00 12.4.2000	Fixed Frame - K40Y - type, Fixed Frame K50 - type
K60	16.1.2008	1.70x3.50 m height 1.10 m TT partition	<u>CRI A-1</u> 8.2.2008	CS-31HB (NPA No 07-2008)	54600.00 15.4.2008	Fixed Frame K60 - type
K70	13.8.2009	1.70x4 m height 1.10 m TT partition	<u>CRI A-1</u> 4.9.2009	CS-31HB 27/02/2009	54850.00 15.10.2009	Fixed Frame K60 - type K60 STRONG - type
K80	13.8.2009	1.70x4.5 m height 1.10 m TT partition	CRI A-1 4.9.2009	CS-31HB 27/02/2009	54800.00 15.10.2009	Fixed Frame K60 - type K60 STRONG - type

**Table 4: Approved combinations of envelopes and baskets for BB models**

Envelope Model	Basket model																	
	K7	K10S	K10	K11, K12, K12A	K13, K13S	K14, K15, K16, K17, K18, K19, K19L, K22	K23	K25P, K28, K28H, K30PP	K32T, K32Y	K32TT	K40T, K40Y, K40TTA, K50, K50TTA	K50TT	K50TT8, K55X, K55TTA, K58HH	K60, K60X	K65TTA	K70, K70TTA	K80	K85, K90, K100, K110
BB9, BB9E, BB9EF			124															
BB12, BB12E, BB12EF			124															
BB14XR			124															
BB16, BB16E, BB16EF, BB16XR			124															
BB17XR			124															
BB17GP			124															
BB18E			124															
BB18XR			124															
BB20, BB20ED, BB20E, B20GP			124															
BB20XR			124															
BB22, BB22D, BB22ED, BB22E, BB22N, BB22Z, BB22XR, BB22M			124															
BB26, BB26D, BB26ED, BB26E, BB26N, BB26Z, BB26XR, BB26M			124															
BB30D, BB30ED, BB30N, BB30Z, BB30XR, BB30E, BB30M			124															
BB34D, BB34ED, BB34Z, BB34E			124															
BB37D, BB37N, BB37Z			124					RV	RV									
BB40D, BB40Z			124					RV	RV									
BB42D, BB42Z			124					RV	RV									
BB45D, BB45N, BB45Z								RV	RV	RV	RV	RV						
BB51D, BB51Z								RV	RV	RV	RV	RV						
BB60D, BB60N, BB60Z								RV	RV	RV	RV	RV	RV	RV	RV			
BB64Z									RV	RV	RV	RV	RV	RV	RV	RV		
BB70D, BB70Z									RV	RV	RV	RV	RV	RV	RV	RV	RV	
BB78Z										RV	RV	RV	RV	RV	RV	RV	RV	
BB85D, BB85Z										RV	RV	RV	RV	RV	RV	RV	RV	
BB92Z											RV		RV	RV	RV	RV	RV	
BB100D, BB100Z													RV	RV	RV	RV	RV	RV
BB105P														RV	RV	RV	RV	RV
BB106P														RV	RV	RV	RV	RV
BB113P														RV	RV	RV	RV	RV
BB120P														RV	RV	RV	RV	RV
BB130P														RV	RV	RV	RV	RV
BB142P														RV	RV	RV	RV	RV
BB150P																RV°	RV°	RV°
BB184P																RV°	RV°	RV°

**Explanation:**

- = Approved combination
- 124 = K10 baskets of s/n 124 and higher are to be combined with Komet Duo and Ignis – two units burners
- RV = Rotation vent must be fitted
- ° = only the 40 kN carabiners may be used for connecting the envelope flying wires and the basket flying wires to the burner frame

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**Table 5: Approved combinations of envelopes and burners for BB models**

Envelope Model	Burner										
	H3	H3-D	HB2	KOMET DUO up to 104	KOMET DUO 105+	H4	KOMET TRIO	SIRIUS	IGNIS 2 units	IGNIS 3 units	IGNIS 4 units
BB9, BB9E											
BB9EF											
BB12, BB12E											
BB12EF											
BB14XR											
BB16, BB16E											
BB16EF, BB16XR											
BB17XR											
BB17GP											
BB18E											
BB18XR											
BB20, BB20ED, BB20E, B20GP											
BB20XR											
BB22, BB22D, BB22ED, BB22E, BB22N, BB22Z											
BB22XR											
BB22M											
BB26, BB26D, BB26ED, BB26E, BB26N, BB26Z, BB26XR											
BB26M											
BB30D, BB30ED, BB30N, BB30Z, BB30XR, BB30E											
BB30M											
BB34D, BB34ED, BB34Z, BB34E											
BB37D, BB37N, BB37Z											
BB40D, BB40Z											
BB42D, BB42Z											
BB45D, BB45N, BB45Z											
BB51D, BB51Z											
BB60D, BB60N, BB60Z											
BB64Z									*		
BB70D, BB70Z									*		
BB78Z									*		
BB85D, BB85Z											
BB92Z										*	
BB100D, BB100Z										*	
BB105P										*	
BB106P											
BB113P											
BB120P											
BB130P											
BB142P											
BB150P											
BB184P											

	= Approved combination
*	= Applicable for the Ignis burners of s/n 516 and higher

**Table 6: Fuel Cylinders**

Model	Reference date	Volume	Pw	Certification basis	Airworthiness requirements	Drawing document No. *	Approved by
KB72L	16.7.2015	72l	15bar	<u>CRI A-1</u> 20.4.2016	CS-31HB Amdt 1 05/12/2011 FAR 31, Amdt. 31-7, May 24, 1996	55120.00 17.6.2016	EASA
KB85L	29.7.2020	85l	15bar	<u>CRI A-1</u> 29.7.2020	CS-31HB Amdt 1 05/12/2011 FAR 31, Amdt. 31-7, May 24, 1996	55120.00_f 20.7.2021	EASA
KB97L	16.7.2015	97l	15bar	<u>CRI A-1</u> 20.4.2016	CS-31HB Amdt 1 05/12/2011 FAR 31, Amdt. 31-7, May 24, 1996	55120.00 17.6.2016	EASA

\* suffix .00 may change to different numbers representing detailed specification of the product

## Section 2 BB-S Type

### I. General

#### 1. Type / Variant / Model

- a) Type: BB-S
- b) Variant or Model: Refer to Section 2. VI

#### 2. Type Certificate Holder

Kubiček Factory s.r.o.  
Jarní 1003/2a  
614 00 Brno

#### 3. Manufacturer

BALÓNY KUBÍČEK spol. s r.o.  
Francouzská 81  
602 00 Brno

BALÓNY KUBÍČEK spol. s r.o.  
Jarní 1003/2a  
614 00 Brno (from S/N 1555 to S/N 1999)

Kubiček Factory s.r.o.  
Jarní 1003/2a  
614 00 Brno (S/N 2000 and higher)

### II. Certification Basis

#### 1. Reference Date for determining the applicable requirements

Refer to Section 2. VI, see Tables 1, 2 and 3

#### 2. CAA CZ Type Certificate Data Sheet No

N/A

#### 3. UK Certification Basis

CRI A-01, issue - refer to Section Section 2. VI, see Tables 1, 2 and 3

#### 4. Airworthiness Standards

Refer to Section 2. VI, see Tables 1, 2 and 3

#### 5. Special Conditions (SC)

Lights for Manned Balloons Flights at Night, Issue 2, 22 October 2012

#### 6. Equivalent Safety Findings (ESF)

- FAR § 31.47 (d) endurance test for KOMET DUO burner from S/N 105
- CRI E-01, issue 2, dated 15 February 2007: FAR § 31.47 (d) endurance test for IGNIS burner

## 7. Deviations

None

### III. Technical Characteristic and Operating Limitations

#### 1. Type Design Definition

Refer to Section 2. VI

#### 2. Description

The free hot-air balloon with the non-conventional shaped envelopes of 1,000-6,000 m<sup>3</sup> volume, vertical or horizontal constructions with 8-32 gores. The parachute, paralite or Smart Vent is used for closing of the vent aperture. As option, the envelope can be equipped with rotation vent. The single backed up, double or triple burner is the heat source for the envelope. The basket is cane-work connected with the envelope by means of stainless-steel wires and karabiners with a screw gate. Preference of the basket and burner type should be provide with respect to the envelope size. Stainless, duralumin or titanium fuel cylinders (approved models are listed in the approved Flight Manual) fixed in the basket, the equipment and instruments are fixed on the inner side of the basket. The basket equipped with approved inflatable artwork can be used.

#### 3. Equipment

- Altimeter
- A rate of climb indicator (variometer)
- Melting link for the envelope overheating check
- Fuel quantity gauge
- Double ignition equipment
- Drop line
- Fire extinguisher
- Heat-resistant cloth

#### 4. Envelope

Refer to Section 2. VI, see Table 1, 4 and 5

#### 5. Burner

Refer to Section 2. VI, see Table 2, 4 and 5

#### 6. Basket

Refer to Section 2. VI, see Table 3, 4 and 5

#### 7. Fuel Cylinder

Refer to Section 2. VI, see Table 6

#### 8. Mass

Maximum take-off weight: Refer to Section 2, see Table 1

#### 9. Envelope temperature

In accordance with the used fabric as follows:

- Nylon, Polyurethane coated  
Hot Air Balloons fabric max. 110°C
- Polyester, Polyurethane or Acrylic coated  
Hot Air Balloons fabric max. 124°C
- Max. admissible air temperature in the envelope REPLIKA is  
max. 120°C

## 10. Minimum Flight Crew

1 Pilot

## 11. Maximum number of persons on board

In accordance with approved Flight Manual

## 12. Other Limitations

- For BB-S, single-unit burner type must not be used. It is applicable for bulletin No. BB/22b-1 too (see Section V. Notes 1.)
- The TC covers the S/N 8 of the REPLIKA envelope models only
- VFR operations only (see A V. Note 3 for details)

## IV. Operating and Service Instructions

### 1. Applicable to the balloons up-to S/N 639 included:

Flight Manual for use with the Hot Air Balloon (Document No.: B.0102)

- Revision 11 or later approved revision see Section 2. VI, Table 1.

OR

Flight Manual for use with the hot air balloon (Document No.: B.3102)

- initial issue or later approved revision

### 2. Applicable to the balloons up to S/N 639 inclusive and burners up to S/N 470 inclusive:

Maintenance Manual for use with the hot air balloon (Document No.: B.0202)

- Revision 5 or later accepted revision, see Section 2. VI, Table 1

OR

Maintenance Manual for use with the hot air balloon (Document No.: B.3202)

- initial issue or later approved revision

### 3. Applicable to the balloons from S/N 640:

Flight Manual for use with the hot air balloon (Document No.: B.2102)

- initial issue or later approved revision, see Section 2. VI, Table 1

OR

Flight Manual for use with the hot air balloon (Document No.: B.3102)

- initial issue or later approved revision

### 4. Applicable to the balloons from S/N 640 and burners from S/N 471:

Maintenance Manual for use with the hot air balloon (Document No.: B.2202)

- initial Issue or later approved revision, see Section 2. VI, Table 1

OR

Maintenance Manual for use with the hot air balloon (Document No.: B.3202)

- initial issue or later approved revision

### 5. Flight manual Supplement for use with the special shaped hot-air balloon (Document No.: refer to Section 2. VI, see Table 1)

- issue refer to Section 2, see Table 1 or later approved revision

### 6. Flight Manual for use with the hot air balloon REPLIKA special shaped (Document No.: FM REPLIKA), see Section 2. VI, Table 1

- issue 0 or later approved revision
- Applicable for balloon S/N 8 only.

## V. Notes

1. Applicable range of balloon parts or equipment from the other manufacturers – see the Optional Bulletin No. BB/22b-1.
2. The master documents of the Operating and Service Instructions listed in the section A.IV are issued in English language. Other languages may be provided by the Type Certificate holder.
3. The BB-S balloons are limited to VFR day flights unless an approved set of position lights and the appropriate supplement to the Flight Manual are used:
  - Applicable to the balloons up to S/N 639 inclusive: FMS Night Flying (Document No. B.0102-NF)
  - Applicable to the balloons from S/N 640: FMS Night Flying (Document No. B.2102-NF)

## VI. BB-S Type Definition and Certification Data

**Table 1: Envelopes**

Model	Volume [m <sup>3</sup> ]	Gores [pcs.]	MTOM [kg]	Reference date	Certification basis	Airworthiness requirements	AFM/MM applicable revision from:		Flight Manual Supplement	Drawing No.	Approved by
							up to S/N 639	from S/N 640			
CUBE	3400	16 Z-type	950	11.9.2006	<u>CRI A-01</u> 11.12.2006	FAR 31, Amdt. 31-7, May 24, 1996	10/8	---	<u>B.0102-CUBE</u> <u>Issue 1</u> 5.2.2007	<u>55-053440</u> 1.11.2006	EASA
FORKLIFT	3400	18 Z-type	900	25.1.2007	<u>CRI A-01</u> 9.3.2007	FAR 31, Amdt. 31-7, May 24, 1996	10/8	---	<u>B.0102-FORKLIFT</u> <u>Change 0</u> 29.3.2007	<u>55-053450</u> 20.2.2007	EASA
SILO	3400	16 Z-type	950	6.4.2007	<u>CRI A-01</u> 15.5.2007	FAR 31, Amdt. 31-7, May 24, 1996	11/8	---	<u>B.0102-SILO</u> <u>Change 0</u> 30.7.2007	<u>55-053460</u> 20.4.2007	EASA
ICE	2850	20 Z-type	800	23.5.2007	<u>CRI A-01</u> 29.5.2007	FAR 31, Amdt. 31-7, May 24, 1996	11/8	---	<u>B.0102-ICE</u> <u>Change 0</u> 10.12.2007	<u>55-053530</u> 26.7.2007	EASA
BEAR	3000	20 Z-type	800	23.5.2007	<u>CRI A-01</u> 29.5.2007	FAR 31, Amdt. 31-7, May 24, 1996	11/8	---	<u>B.0102-BEAR</u> <u>Change 0</u> 10.12.2007	<u>55-053560</u> 26.7.2007	EASA
DHL	2600	24 Z-type	850	23.5.2007	<u>CRI A-01</u> 29.5.2007	FAR 31, Amdt. 31-7, May 24, 1996	11/8	---	<u>B.0102-DHL</u> <u>Change 0</u> 10.12.2007	<u>55-053540</u> 26.7.2007	EASA
JUPOL	2500	16 Z-type	650	23.5.2007	<u>CRI A-01</u> 29.5.2007	FAR 31, Amdt. 31-7, May 24, 1996	11/8	---	<u>B.0102-JUPOL</u> <u>Change 0</u> 10.12.2007	<u>55-053520</u> 26.7.2007	EASA
JAG	2400	14 Z-type	650	23.5.2007	<u>CRI A-01</u> 29.5.2007	FAR 31, Amdt. 31-7, May 24, 1996	11/8	---	<u>B.0102-JAG</u> <u>Change 0</u> 10.12.2007	<u>55-053490</u> 26.7.2007	EASA
BEMB	3600	20 Z-type	950	23.5.2007	<u>CRI A-01</u> 29.5.2007	FAR 31, Amdt. 31-7, May 24, 1996	11/8	---	<u>B.0102-BEMB</u> <u>Change 0</u> 10.12.2007	<u>55-053510</u> 26.7.2007	EASA
JAGER	1800	14 Z-type	450	23.5.2007	<u>CRI A-01</u> 29.5.2007	FAR 31, Amdt. 31-7, May 24, 1996	11/8	---	<u>B.0102-JAGER</u> <u>Change 0</u> 10.12.2007	<u>55-053500</u> 26.7.2007	EASA
KRIGL	2600	14 Z-type	700	23.5.2007	<u>CRI A-01</u> 29.5.2007	FAR 31, Amdt. 31-7, May 24, 1996	11/8	---	<u>B.0102-KRIGL</u> <u>Change 0</u> 10.12.2007	<u>55-053550</u> 26.7.2007	EASA
HEART	2400	18 Z-type	700	30.5.2007	<u>CRI A-01</u> 28.6.2007	FAR 31, Amdt. 31-7, May 24, 1996	11/8	---	<u>B.0102-HEART</u> <u>Change 0</u> 10.12.2007	<u>55-053480</u> 26.7.2007	EASA
JAGER 28	2800	14 Z-type	800	14.5.2007	<u>CRI A-01</u> 12.8.2007	FAR 31, Amdt. 31-7, May 24, 1996	11/8	---	<u>B.0102-JAGER</u> <u>28</u> <u>Change 0</u> 10.12.2007	<u>55-053470</u> <u>20.6.2007</u>	EASA
SANTA	3600	20 Z-type	995	3.4.2008	<u>CRI A-01</u> 11.04.2008	FAR 31, Amdt. 31-7, May 24, 1996	14/9	---	<u>B.0102-SANTA</u> <u>Change 0</u> 22.7.2008	<u>55-053600</u> <u>24.04.2008</u>	EASA
RABBIT	4390	24 Z-type	995	13.2.2009	<u>CRI A-01</u> 24.03.2009	FAR 31, Amdt. 31-7, May 24, 1996	---	1/0	<u>B.2102-RABBIT</u> <u>Change 0</u> 20.4.2009	<u>55-053700</u> <u>18.02.2009</u>	EASA

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Model	Volume [m <sup>3</sup> ]	Gores [pcs.]	MTOM [kg]	Reference date	Certification basis	Airworthiness requirements	AFM/MM applicable revision from:		Flight Manual Supplement	Drawing No.	Approved by
							up to S/N 639	from S/N 640			
REPLIKA	2400	32 N-type	600	5.5.2009	<u>CRI A-01</u> 4.06.2009	FAR 31, Amdt. 31-4, Sept 11, 1980	0/10	---	---	<u>55-053710</u> <u>6.1.1991</u>	EASA
MONTGOLFIERE	2850	20 Z-type	900	19.8.2009	<u>CRI A-01</u> 9.09.2009	FAR 31, Amdt. 31-7, May 24, 1996	---	5/1	<u>B.2102-MONTGOLFIERE</u> <u>Change 0</u> 18.1.2010	<u>55-053720</u> <u>28.8.2009</u>	EASA
BURGER KING	3400	24 Z-type	995	5.11.2009	<u>CRI A-01</u> 14.12.2009	FAR 31, Amdt. 31-7, May 24, 1996	---	7/2	<u>B.2102-BKING</u> <u>Change 0</u> 9.3.2010	<u>55-053730</u> <u>23.11.2009</u>	EASA
GNOME	3400	20 Z-type	999	6.5.2010	<u>CRI A-01</u> 15.6.2010	FAR 31, Amdt. 31-7, May 24, 1996	---	7/2	<u>B.2102-GNOME</u> <u>Change 0</u> 2.8.2010	<u>55-053740</u> <u>11.05.2010</u>	EASA
BALL	2700	24 Z-type	800	1.9.2010	<u>CRI A-01</u> 06.09.2010	FAR 31, Amdt. 31-7, May 24, 1996	---	8/3	<u>B.2102-BALL</u> <u>Change 0</u> 27.10.2010	<u>55-053750</u> <u>13.09.2010</u>	EASA
VOSTOK	4300	24 Z-type	1300	11.1.2011	<u>CRI A-01</u> 24.01.2011	FAR 31, Amdt. 31-7, May 24, 1996	---	10/4	<u>B.2102-VOSTOK</u> <u>Change 0</u> 30.3.2011	<u>55-053760</u> <u>18.1.2011</u>	EASA
FISH	3000	24 Z-type	850	14.3.2011	<u>CRI A-01</u> 01.04.2011	FAR 31, Amdt. 31-7, May 24, 1996	---	10/4	<u>B+ 2102-FISH</u> <u>Change 0</u> 24 June.2011	<u>55-053770</u> <u>11.4.2011</u>	EASA
CUP	2800	20 Z-type	850	7.1.2013	<u>CRI A-01</u> <u>24.1.2013</u>	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	<u>B.2102-CUP</u> <u>Change 0</u> 19.4.2013	<u>53790.00</u> <u>11.1.2013</u>	EASA
PHARE	3000	20 Z-type	900	28.11.2012	<u>CRI A-01</u> <u>4.1.2013</u>	FAR 31, Amdt. 31-7, May 24, 1996	---	18/7	<u>B.2102-PHARE</u> <u>Change 0</u> 4.6.2013	<u>53780.00</u> <u>18.3.2013</u>	EASA
SHIP	3600	28 Z-type	1100	7.6.2013	<u>CRI A-01</u> <u>24.6.2013</u>	FAR 31, Amdt. 31-7, May 24, 1996	---	19/9	<u>B.2102-SHIP</u> <u>Change 0</u> 30.10.2013	<u>53810.00</u> <u>9.7.2013</u>	EASA
SKYBALLS	3000	20 Z-type	900	6.10.2015	<u>CRI A-01</u> <u>14.10.2015</u>	FAR 31, Amdt. 31-7, May 24, 1996	---	22/11	<u>B.2102-SKYBALLS</u> <u>Change 0</u> 20.1.2016	<u>53820.00</u> <u>12.10.2015</u>	EASA
WURST	4000	24 Z-type	1300	8.12.2015	<u>CRI A-01</u> <u>17.12.2015</u>	FAR 31, Amdt. 31-7, May 24, 1996	---	23/11	<u>B.2102-WURST</u> <u>Change 0</u> 19.4.2016	<u>53830.00</u> <u>11.12.2015</u>	EASA
BALL 105	3000	24 Z-type	900	10.05.2016	<u>CRI A-01</u> <u>18.05.2016</u>	FAR 31, Amdt. 31-7, May 24, 1996	---	23/12	<u>B.2102-BALL</u> <u>105</u> <u>Change 0</u> 16.10.2016	<u>53840.00</u> <u>10.05.2016</u>	EASA
POLAR BEAR	2400	20 Z-type	750	22.11.2017	<u>CRI A-01</u> <u>30.11.2017</u>	FAR 31, Amdt. 31-7, May 24, 1996	---	2/0	<u>B.3102-POLAR BEAR</u> <u>Change 0</u> 12.04.2018	<u>53850.00</u> <u>10.01.2018</u>	EASA
VILSA	3200	20 Z-type	900	24.1.2018	<u>CRI A-01</u> <u>7.2.2018</u>	FAR 31, Amdt. 31-7, May 24, 1996	---	2/0	<u>B.3102-VILSA</u> <u>Change 0</u> 6.6.2018	<u>53860.00</u> <u>26.2.2018</u>	EASA
KATZENKOPF	3400	24 Z-type	995	11.6.2018	<u>CRI A-01</u> <u>14.6.2018</u>	FAR 31, Amdt. 31-7, May 24, 1996	---	2/0	<u>B.3102-KATZENKOPF</u> <u>Change 0</u> 21.9.2018	<u>53870.00</u> <u>4.5.2018</u>	EASA

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Model	Volume [m <sup>3</sup> ]	Gores [pcs.]	MTOM [kg]	Reference date	Certificatio n basis	Airworthiness requirements	AFM/MM applicable revision from:		Flight Manual Supplement	Drawing No.	Approved by
							up to S/N 639	from S/N 640			
RICE	3000	28 Z-type	900	27.8.2018	<u>CRI A-01</u> <u>13.09.2018</u>	FAR 31, Amdt. 31-7, May 24, 1996	---	2/0	<u>B.3102-RICE</u> <u>Change 0</u> <u>22.11.2018</u>	<u>53880.00</u> <u>1.8.2018</u>	EASA
HANDY	3300	20 Z-type	995	30.11.2018	<u>CRI A-01</u> <u>15.2.2019</u>	FAR 31, Amdt. 31-7, May 24, 1996	---	2/1	<u>B.3102-HANDY</u> <u>Change 0</u> <u>7.3.2019</u>	<u>53890.00</u> <u>18.2.2019</u>	EASA
DUM	2600	24 Z-type	700	4.6.2018	FAR 31, Amdt. 31-7, May 24, 1996	FAR 31, Amdt. 31-7, May 24, 1996	---	2/1	<u>B.3102-DUM</u> <u>Change 0</u> <u>17.5.2019</u>	<u>53980.00</u> <u>17.4.2019</u>	EASA
WERA	3400	18 Z-type	995	17.12.2018	<u>CRI A-01</u> <u>14.5.2019</u>	FAR 31, Amdt. 31-7, May 24, 1996	---	2/1	<u>B.3102-WERA</u> <u>Change 0</u> <u>B.3102- INF WERA</u> <u>Change 0</u> <u>17.5.2019</u>	<u>53960.00</u> <u>5.12.2018</u>	EASA
WYCAM'S	3000	20 Z-type	900	22.5.2019	<u>CRI A-01</u> <u>29.5.2019</u>	FAR 31, Amdt. 31-7, May 24, 1996	---	3/1	<u>B.3102- WYCAM'S</u> <u>Change 0</u> <u>27 August 2019</u>	<u>53990.00</u> <u>29.4.2019</u>	EASA
YAKULT MAN	2600	20 Z-type	800	22.5.2019	<u>CRI A-01</u> <u>29.5.2019</u>	FAR 31, Amdt. 31-7, May 24, 1996	---	3/1	<u>B.3102- YAKULT</u> <u>MAN</u> <u>Change 0</u> <u>18 September</u> <u>2019</u>	<u>53970.00</u> <u>29.4.2019</u>	EASA
ROTO	2800	20 Z-type	850	22.5.2019	<u>CRI A-01</u> <u>29.5.2019</u>	FAR 31, Amdt. 31-7, May 24, 1996	---	7/1	<u>B.3102- ROTO</u> <u>Change 0</u> <u>30 January 2020</u>	<u>54000.00</u> <u>29.4.2019</u>	EASA
UNICORN	3200	20 Z-type	900	22.11.2019	<u>CRI A-01</u> <u>16.12.2019</u>	FAR 31, Amdt. 31-7, May 24, 1996	---	8/4	<u>B.3102- UNICORN</u> <u>Change 0</u> <u>28 May 2020</u>	<u>54000.00</u> <u>13.1.2020</u>	EASA
GRENADE	3100	8 Z-type	900	17.10.2019	<u>CRI A-01</u> <u>1.11.2019</u>	FAR 31, Amdt. 31-7, May 24, 1996	---	8/4	<u>B.3102- GRENADE</u> <u>Change 0</u> <u>23 June 2020</u>	<u>54010.00</u> <u>11.12.2019</u>	EASA
PIGGY	3000	24 Z-type	900	6.4.2020	<u>CRI A-01</u> <u>14.7.2020</u>	FAR 31, Amdt. 31-7, May 24, 1996	---	8/4	<u>B.3102- Piggy</u> <u>Change 0</u> <u>16 July 2020</u>	<u>54030.00</u> <u>1.4.2020</u>	EASA
HEART 210	6000	24 Z-type	1940	08.10.2020	<u>CRI A-01</u> <u>29.10.2020</u>	FAR 31, Amdt. 31-7, May 24, 1996	---	10/5	<u>B.3102- HEART_210</u> <u>Change 0</u> <u>11.11.2020</u>	<u>54040.00</u> <u>3.9.2020</u>	EASA
THIJS	3200	20 Z-type	900	5.2.2021	<u>CP THIJS,</u> <u>rev.0</u> <u>8.6.2021</u>	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	---	12/5	<u>B.3102- THIJS</u> <u>Change 0</u> <u>11.June 2021</u>	<u>54050.00</u> <u>5.2.2021</u>	EASA – under the DOA privilege 21.A.263 (c)(8)
X2O	7200	24 Z-type	2300	17.11.2021	<u>CRI A-01</u> <u>29.11.2021</u>	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	---	12/6	<u>B.3102- X2O</u> <u>Change 0</u> <u>8 December</u> <u>2021</u>	<u>54080.00</u> <u>9.11.2021</u>	EASA
BLASER	2300	16 Z-type	750	9.7.2021	<u>CP</u> <u>BLASER,</u> <u>rev.0</u> <u>15.12.2021</u>	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	---	12/6	<u>B.3102-BLASER</u> <u>Change 0</u> <u>5 January 2022</u>	<u>54060.00</u> <u>9.7.2021</u>	EASA – under the DOA privilege 21.A.263 (c)(8)

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Model	Volume [m <sup>3</sup> ]	Gores [pcs.]	MTOM [kg]	Reference date	Certification basis	Airworthiness requirements	AFM/MM applicable revision from:		Flight Manual Supplement	Drawing No.	Approved by
							up to S/N 639	from S/N 640			
MANDARIN	4000	24 Z-type	1300	19.8.2021	<u>CP MANDARIN, rev 0</u> <u>13.1.2022</u>	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	---	12/6	<u>B.3102-MANDARIN</u> <u>Change 0</u> <u>2 March 2022</u>	<u>54070.00</u> <u>19.8.2021</u>	EASA – under the DOA privilege 21.A.263 (c)(8)
HEART 105	3000	24 Z-type	840	14.2.2022	<u>CP HEART 105, rev 0</u> <u>25.7.2022</u>	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	---	14/6	<u>B.3102-HEART 105</u> <u>Change 0</u> <u>30 August 2022</u>	<u>54090.00</u> <u>14.2.2022</u>	EASA – under the DOA privilege 21.A.263 (c)(8)
WORKER	4900	24 Z-type	1350	20.4.2022	<u>CP WORKER, rev 0</u> <u>19.10.2022</u>	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	---	14/6	<u>B.3102-WORKER</u> <u>Change 0</u> <u>21 October 2022</u>	<u>54110.00</u> <u>20.4.2022</u>	EASA – under the DOA privilege 21.A.263 (c)(8)
BABY DRAGON	3000	20 Z-type	900	10.8.2022	<u>CP BABY DRAGON, rev 0</u> <u>10.10.2022</u>	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	---	14/6	<u>B.3102-BABY-DRAGON</u> <u>Change 0</u> <u>9 February 2023</u>	<u>54130.00</u> <u>10.8.2022</u>	EASA – under the DOA privilege 21.A.263 (c)(8)
BAG	3000	26 Z-type	900	14.11.2022	<u>CP BAG, rev 0</u> <u>10.2.2023</u>	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	---	15/6	<u>B.3102-BAG</u> <u>Change 0</u> <u>** *****2023</u>	<u>54320.00</u> <u>14.11.2022</u>	EASA – under the DOA privilege 21.A.263 (c)(8)
QUICKLINE	6400	24 Z-type	2100	15.5.2023	<u>CP QUICKLINE, rev 0</u> <u>15.5.2023</u>	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	---	15/6	<u>B.3102-QUICKLINE</u> <u>Change 0</u> <u>22 June 2023</u>	<u>54330.00</u> <u>15.5.2023</u>	EASA – under the DOA privilege 21.A.263 (c)(8)

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**Table 2: Burners**

Model	Reference date	Certification basis	Airworthiness requirements	Drawing No. *	Applicable burner frames	Approved by
H3-D	8.7.1992	---	FAR 31, Amdt. 31-4 September 11, 1980	80-050306 7.3.1994	Fixed Frame - H3 - type	
HB2	8.7.1992	---	FAR 31, Amdt. 31-4, September 11, 1980	80-050450 12.1.1999	Fixed Frame - H7 type	EASA
KOMET DUO up to S/N 104 including	8.7.1992	---	FAR 31, Amdt. 31-4 September 11, 1980	81-050676 16.4.1999	Fixed Frame - basic	EASA
KOMET DUO from S/N 105	8.7.1992	---	FAR 31, Amdt. 31-7 April 24, 1996	81-050676 Modification No. 99BB 22.7.2002	Fixed / Vario Frame - basic, K25P	EASA
KOMET TRIO	4.10.2002	---	FAR 31, Amdt. 31-7 May 24, 1996	53010.00 30.9.2003	Fixed Frame - K25P, K32T, K40Y - type	EASA
IGNIS	16.11.2005	<u>CRI A-01</u> 15.2.2007	FAR 31, Amdt. 31-7, April 24, 1996	53115.00 53100.00 53101.00 56000.00	Fixed / Vario frame - Basic K25P, K32T, K32TT, K50TT, K40Y, K50, K60, K60 STRONG, K70, K80, K100, K100 STRONG	EASA
SIRIUS	3.7.2018	<u>CRI A-01</u> 19.7.2018	FAR 31, Amdt. 31-7, May 24, 1996 CS-31HB/1(5/12/2011)	57880.00	Fixed frame - Sirius	EASA

\* Suffix .00 may change to different numbers representing detailed specification of the product

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**Table 3: Baskets**

Model	Reference date	Dimension	Certification basis	Airworthiness requirements	Drawing No. *	Applicable burner frames	Approved by
J1	23.6.1992	1.23x1.23 m, height 1.00 m	---	FAR 31, Amdt. 31-4 September 11, 1980	<u>500 000</u> 17.2.1992	Fixed / Vario Frame - basic	EASA
J2	23.6.1992	1.23x1.35 m, height 1.00 m	---	FAR 31, Amdt. 31-4 September 11, 1980	<u>500 000</u> 17.2.1992	Fixed / Vario Frame - basic	EASA
K7	8.7.1992	0.85x0.85 m, height 1.10 m	---	FAR 31, Amdt. 31-4 September 11, 1980	60-050072 10.3.1993	Fixed Frame - H3 type Fixed / Vario Frame - basic	EASA
K10	8.7.1992	0.85x1.00 m, height 1.10 m	---	FAR 31, Amdt. 31-4 September 11, 1980	61-050097 10.3.1993	Fixed Frame - H3 type Fixed / Vario Frame - basic	EASA
K10S	29.10.2018	0.86 x 1.16 m, height 1.0 m	<u>CRI A-1</u> 3.1.2019	FAR 31, Amdt. 31-7 May 24, 1996	57860.00 3.1.2019	Fixed Frame - H3 type Fixed / Vario Frame - basic	EASA
K11	10.1.2008	0.98x1.16 m, height 1,10 m	<u>CRI A-1</u> 29.1.2008	FAR 31, Amdt. 31-7 April 24, 1996	61-054200 21.1.2008	Fixed / Vario Frame - basic	EASA
K12	8.7.1992	1.16x1.16 m, height 1.10 m	---	FAR 31, Amdt. 31-4 September 11, 1980	61-050556 10.3.1993	Fixed / Vario Frame - basic	EASA
K12A	8.7.1992	1.16x1.16 m, height 1.10 m	---	FAR 31, Amdt. 31-4 September 11, 1980	61-050586 10.3.1993	Fixed / Vario Frame - basic	EASA
K13	10.1.2008	0.98x1.25m height 1.03- 1.14 m	<u>CRI A-1</u> 29.1.2008	FAR 31, Amdt. 31-7 April 24, 1996	61-054300 21.1.2008	Fixed / Vario Frame - basic	EASA
K13S	14.11.2008	0.95 x 1.26 m height 1.1 m	CRI A-1 17.3.2009	FAR 31, Amdt. 31-7 May 24, 1996	62-054450 1.4.2009	Fixed / Vario Frame - basic	EASA
K14	29.10.2018	1.35 x 1.16 m, height 1.10 m	<u>CRI A-1</u> 3.1.2019	CS-31HB Amdt 1 05/12/2011 FAR 31, Amdt. 31-7 May 24, 1996,	57850.00 3.1.2019	Fixed / Vario Frame - basic	EASA
K15	8.7.1992	1.16x1.25 m, height 1.10 m	---	FAR 31, Amdt. 31-4 September 11, 1980	61-050111 10.3.1993	Fixed / Vario Frame - basic	EASA
K16	8.7.1992	1.16x1.40 m, height 1,10 m	---	FAR 31, Amdt. 31-4 September 11, 1980	61-050125 10.3.1993	Fixed / Vario Frame - basic	EASA
K17	10.1.2008	1.16x1.45m height 1.03- 1.14 m	<u>CRI A-1</u> 29.1.2008	FAR 31, Amdt. 31-7 April 24, 1996	61-054400 21.1.2008	Fixed / Vario Frame - basic	EASA
K18	8.7.1992	1.16x1.55 m, height 1.10 m	---	FAR 31, Amdt. 31-4 September 11, 1980	61-050135 10.3.1993	Fixed / Vario Frame - basic	EASA

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Model	Reference date	Dimension	Certification basis	Airworthiness requirements	Drawing No. *	Applicable burner frames	Approved by
K19	9.11.2015	1.16 x 1.55 m, height 1.10 m	<u>CRI A-1</u> 27.11.2015	CS-31HB Amdt 1 05/12/2011 FAR 31, Amdt. 31-7 May 24, 1996,	57300.00 21.3.2016	Fixed / Vario Frame - basic	EASA
K19L	9.11.2015	1.16 x 1.62 m, height 1.10 m	<u>CRI A-1</u> 27.11.2015	CS-31HB Amdt 1 05/12/2011 FAR 31, Amdt. 31-7 May 24, 1996,	57330.00 21.3.2016	Fixed / Vario Frame - basic	EASA
K22	8.7.1992	1.25x1.79 m, height 1.10 m	---	FAR 31, Amdt. 31-7 April 24, 1996	62-052680 19.7.2002	Fixed / Vario Frame - basic	EASA
K23	9.11.2015	1.25 x 1.8 m, height 1.10 m	<u>CRI A-1</u> 27.11.2015	CS-31HB Amdt 1 05/12/2011 FAR 31, Amdt. 31-7 May 24, 1996,	57350.00 21.3.2016	Fixed Frame – K23 - type	EASA
K25P	8.7.1992	1.25x2.08 m, height 1.10 m P- Partition	---	FAR 31, Amdt. 31-7 May 24, 1996	62-052650 28.11.2001	Fixed Frame - K25P - type	EASA
K28	13.8.2011	1.60 x 2.20 m, height 1.10 m	<u>CRI A-1</u> 15.6.2011	CS-31HB 27/02/2009 FAR 31, Amdt. 31-7 May 24, 1996	57100.00 1.6.2011	Fixed Frame - K32T - type	EASA
K28H	5.4.2016	1.6 x 2.35 m, height 1.10 m	<u>CRI A-1</u> 27.11.2015	CS-31HB Amdt 1 05/12/2011 FAR 31, Amdt. 31- 7 May 24, 1996	57400.00 21.3.2016	Fixed Frame K32T – type	EASA
K30PP	5.4.2016	1.25 x 2.6 m height 1.10 m, PP partition	<u>CRI A-1</u> 27.11.2015	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	57450.00 21.3.2016	Fixed Frame – K30PP - type	EASA
K32T	4.10.2002	1.25x2.41m, height 1.15 m T-Partition	---	FAR 31, Amdt. 31-7 May 24, 1996	62-053050 30.7.2004	Fixed Frame - K32T - type	EASA
K32Y	13.8.2011	1.60 x 2.40 m, height 1.10 m, Y-Partition	<u>CRI A-1</u> 15.6.2011	CS-31HB 27/02/2009 FAR 31, Amdt. 31-7 May 24, 1996	53050.02 1.8.2011	Fixed Frame - K32T - type	EASA
K32TT	13.4.2010	1.60 x 2.50 m, height 1.10 m, TT-Partition	<u>CRI A-1</u> 3.5.2010	CS-31HB 27/02/2009 FAR 31, Amdt. 31-7 May 24, 1996	54950.00 15.6.2010	Fixed Frame - K32TT - type K50TT - type	EASA
K40T	10.3.2011	1.60 x 2.70 m, height 1.10 m, T-Partition	<u>CRI A-1</u> 30.3.2011	CS-31HB 27/02/2009 FAR 31, Amdt. 31-7 May 24, 1996	52090.02 rev.a 10.3.2011	Fixed Frame K50 – type	EASA
K40Y	10.3.2011	1.60 x 2.70 m, height 1.10 m, Y-Partition	<u>CRI A-1</u> 30.3.2011	FAR 31, Amdt. 31-7 May 24, 1996	52090.00 rev.j 10.3.2011	Fixed Frame K50 – type	EASA
K40TTA	29.10.2018	2.7 x 1.16 m, height 1.10 m TT-partition	<u>CRI A-1</u> 3.1.2019	CS-31HB Amdt 1 05/12/2011 FAR 31, Amdt. 31-7 May 24, 1996	57800.00 3.1.2019	Fixed Frame – K50 – type	EASA

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Model	Reference date	Dimension	Certification basis	Airworthiness requirements	Drawing No. *	Applicable burner frames	Approved by
K50	16.1.2008	1.60 x 3.00 m, height 1.10 m, Y-partition or T-partition	<u>CRI A-1</u> 8.2.2008	CS-31HB (NPA No 07-2008)	54500.00 9.6.2008	Fixed Frame K50 – type	EASA
K50TT	13.4.2010	1.60 x 3.00 m, height 1.10 m, TT-partition	<u>CRI A-1</u> 3.5.2010	CS-31HB 27/02/2009 FAR 31, Amdt. 31-7 May 24, 1996	54900.00 15.6.2010	Fixed Frame - K32TT – type K50TT - type	EASA
K50TTA	29.10.2018	3.0 x 1.60 m, height 1.10 m TT-partition	<u>CRI A-1</u> 3.1.2019	CS-31HB Amdt 1 05/12/2011 FAR 31, Amdt. 31-7 May 24, 1996	57810.00 3.1.2019	Fixed Frame – K50TT – type	EASA
K50TT8	5.4.2016	1.60 x 3.00 m, height 1.10 m, TT-partition	<u>CRI A-1</u> 27.11.2015	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	54900.03 21.3.2016	Fixed Frame K60 – type K60 STRONG - type	EASA
K55X	5.4.2016	1.60 x 3.45m, height 1.10 m	<u>CRI A-1</u> 27.11.2015	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	57500.00 21.3.2016	Fixed Frame K60X – type	EASA
K55TTA	29.10.2018	3.40 x 1.60 m, height 1.10 m TT-partition	<u>CRI A-1</u> 3.1.2019	CS-31HB Amdt 1 05/12/2011 FAR 31, Amdt. 31-7 May 24, 1996	57820.00 3.1.2019	Fixed Frame – K60 – type K60 STRONG - type	EASA
K58HH	5.4.2016	1.60 x 3.80 m, height 1.10 m, HH-partition	<u>CRI A-1</u> 27.11.2015	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	57550.00 21.3.2016	Fixed Frame K60 – type K60 STRONG - type	EASA
K60	10.3.2011	1.60 x 3.80 m height 1.10 m, TT-partition	<u>CRI A-1</u> 30.3.2011	CS-31HB (NPA No 07-2008)	54600.00 rev.a 11.4.2011	Fixed Frame K60 – type K60 STRONG - type	EASA
K60X	5.4.2016	1.60 x 3.90m, height 1.10 m	<u>CRI A-1</u> 27.11.2015	CS-31HB Amdt 1 05/12/2011, FAR 31, Amdt. 31-7 May 24, 1996	57600.00 21.3.2016	Fixed Frame K60X – type	EASA
K65TTA	29.10.2018	4.1 x 1.60 m, height 1.10 m TT-partition	<u>CRI A-1</u> 3.1.2019	CS-31HB Amdt 1 05/12/2011 FAR 31, Amdt. 31-7 May 24, 1996	57830.00 3.1.2019	Fixed Frame – K60 – type K60 STRONG - type	EASA
K70	10.3.2011	1.60 x 4.40 m height 1.10 m, TT-partition	<u>CRI A-1</u> 30.3.2011	CS-31HB 27/02/2009	54850.00 rev.a 10.5.2011	Fixed Frame K60 – type K60 STRONG - type	EASA
K70TTA	29.10.2018	4.4 x 1.60 m, height 1.10 m TT-partition	<u>CRI A-1</u> 3.1.2019	CS-31HB Amdt 1 05/12/2011 FAR 31, Amdt. 31-7 May 24, 1996	57840.00 3.1.2019	Fixed Frame – K60 – type K60 STRONG - type	EASA

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Model	Reference date	Dimension	Certification basis	Airworthiness requirements	Drawing No. *	Applicable burner frames	Approved by
K80	10.3.2011	1.60 x 4.80 m height 1.10 m, TT-partition	<u>CRI A-1</u> 30.3.2011	CS-31HB 27/02/2009	54800.00 rev.a 5.9.2011	Fixed Frame K60 – type K60 STRONG - type	EASA
K85	03.01.2012	1.6x5.2 m height 1.10 m TT-partition	<u>CRI A-1</u> 23.1.2012	CS-31HB Amdt 1 05/12/2011 FAR 31, Amdt. 31-7 May 24, 1996	57150.00 19.01.2012	Fixed Frame - K100 type K100 STRONG - type	EASA
K90	03.01.2012	1.6x5.2 m height 1.10 m DTT- partition	<u>CRI A-1</u> 23.1.2012	CS-31HB Amdt 1 05/12/2011 FAR 31, Amdt. 31-7 May 24, 1996	57250.00 19.01.2012	Fixed Frame - K100 type K100 STRONG - type	EASA
K100	26.3.2010	1.60 x 6.10 m height 1.10 m, TT partition	<u>CRI A-1</u> 21.4.2010	CS-31HB 27/02/2009 FAR 31, Amdt. 31-7 May 24, 1996	54890.00 1.9.2010	Fixed Frame - K100 type K100 STRONG - type	EASA
K110	26.3.2010	1.60 x 6.60 m height 1.10 m, TT partition	<u>CRI A-1</u> 21.4.2010	CS-31HB 27/02/2009 FAR 31, Amdt. 31-7 May 24, 1996	54980.00 19.11.2010	Fixed Frame - K100 type K100 STRONG - type	EASA

\* suffix .00 may change to different numbers representing detailed specification of the product

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**Table 4: Approved combinations of envelopes and baskets for BB-S models**

Envelope	Basket																																							
	J1	J2	K7	K10	K10S	K11	K12	K12A	K13	K13S	K14	K15	K16	K17	K18	K19	K19L	K22	K23	K25P	K28, K28H	K32T, K32Y	K32TT	K40T, K40Y	K40TTA	K50	K50TTA	K50TT	K50TT8	K55X, K55TTA, K58HH	K60, K60X	K65TTA	K70, K70TTA	K80	K85, K90, K100,					
CUBE																																								
FORKLIFT																																								
SILO																																								
ICE																																								
BEAR																																								
DHL																																								
JUPOL																																								
JAG																																								
BEMB																																								
JAGER																																								
KRIGL																																								
HEART																																								
JAGER 28																																								
SANTA																																								
RABBIT																																								
REPLIKA																																								
MONTGOLFIER E																																								
BURGER KING																																								
GNOME																																								
BALL																																								
VOSTOK																																								
FISH																																								
CUP																																								
PHARE																																								
SHIP																																								
SKYBALLS																																								
WURST																																								
BALL 105																																								
POLAR BEAR																																								
VILSA																																								
KATZENKOPF																																								
RICE																																								
HANDY																																								
DUM																																								





**Table 5: Approved combinations of envelopes and burners for BB-S models**

Envelope	Burner								
	H3-D	HB2	KOMET DUO up to 104	KOMET DUO 105+	KOMET TRIO	SIRIUS	IGNIS 2	IGNIS 3	IGNIS 4
CUBE									
FORKLIFT									
SILO									
ICE									
BEAR									
DHL									
JUPOL									
JAG									
BEMB									
JAGER									
KRIGL									
HEART									
JAGER 28									
SANTA									
RABBIT									
REPLIKA									
MONTGOLFIERE									
BURGER KING									
GNOME									
BALL									
VOSTOK									
FISH									
CUP									
PHARE									
SHIP									
SKYBALLS									
WURST									
BALL 105									
POLAR BEAR									
VILSA									
KATZENKOPF									
RICE									
HANDY									
DUM									
WERA									
WYCAM'S									
YAKULT MAN									
ROTO									
UNICORN									
GRENADE									
PIGGY									
HEART 210									
THIJS									
X20									
BLASER									
MANDARIN									
HEART 105									

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Envelope	Burner								
	H3-D	HB2	KOMET DUO up to 104	KOMET DUO 105+	KOMET TRIO	SIRIUS	IGNIS 2	IGNIS 3	IGNIS 4
WORKER									
BABY DRAGON									
BAG									
QUICKLINE									

 = approved combination

**Table 6: Fuel Cylinders**

Model	Reference date	Volume	Pw	Certification basis	Airworthiness requirements	Drawing document No. *	Approved by
KB72L	16.7.2015	72l	15bar	<u>CRI A-1</u> 20.4.2016	CS-31HB Amdt 1, 05/12/2011 FAR 31, Amdt. 31-7, May 24, 1996	55120.00 17.6.2016	EASA
KB85L	29.7.2020	85l	15bar	<u>CRI A-1</u> 29.7.2020	CS-31HB Amdt 1, 05/12/2011 FAR 31, Amdt. 31-7, May 24, 1996	55120.00_f 20.7.2021	EASA
KB97L	16.7.2015	97l	15bar	<u>CRI A-1</u> 20.4.2016	CS-31HB Amdt 1, 05/12/2011 FAR 31, Amdt. 31-7, May 24, 1996	55120.00 17.6.2016	EASA

\* suffix .00 may change to different numbers representing detailed specification of the product.

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## SECTION 3 Historic models (AB 2, AB 8 and Aerotechnik AB)

### I. General

#### 1. Type / Variant or Model

	AB 2	AB 8	Aerotechnik AB
- Type:			
- Variant or Model:	AB 2a		
- Previously listed in TCDS No:	EASA.BA.001	EASA.BA.002	EASA.BA.004

#### 2. Type Certificate Holder

Kubiček Factory s.r.o.  
Jarní 1003/2a  
614 00 Brno

#### 3. Manufacturer

	AB 2	AB 8	Aerotechnik AB
	Aerotechnik podnik ÚV Svazarmu 686 04 Kunovice	since Jun 26, 1990 Aerotechnik podnik ÚV Svazarmu 686 04 Kunovice	since Jan 16, 1991 Aerotechnik p.o.s. 686 04 Kunovice
		since Jan 16, 1991 Aerotechnik p.o.s. 686 04 Kunovice	since Sep 12, 1994 Aerotechnik s r.o. 686 04 Kunovice
		since Sep 12, 1994 Aerotechnik s r.o. 686 04 Kunovice	

#### 4. National Certification Date

	AB 2	AB 8	Aerotechnik AB
	May 18, 1987, CAA CZ TC No. 85-01	September 4, 1990, CAA CZ TC No. 90-02	November 5, 1992, CAA CZ TC No. 92-06

#### 5. CAA Application Date

	AB 2	AB 8	Aerotechnik AB
	---	---	June 23, 1992

#### 6. EASA Application Date

	AB 2	AB 8	Aerotechnik AB
	---	---	---

#### 7. EASA Type Certification Date

February 08, 2005

### II. Certification Basis

Type	AB 2	AB 8	Aerotechnik AB
1. Reference Date for determining the applicable requirements	---	---	June 23, 1992

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**2. CAA CZ Type Certificate Data Sheet No**

TC 85-01 TC 90-02 TC 92-06

**3. EASA Certification Basis**

FAR, Part 31 - Airworthiness Standards: Manned Free Balloons, Amdt. 31-4, dated 11 September 1980

**4. Airworthiness Requirements**

FAR, Part 31 - Airworthiness Standards: Manned Free Balloons, Amdt. 31-4, dated 11 September 1980 as defined above

**5. Special Conditions**

None

**6. Reversion and Exemptions**

None

**7. Equivalent Safety Findings**

None

**III. Technical Characteristics and Operational Limitations**

Type	AB 2	AB 8	Aerotechnik AB
<b>1. Type Design Definition</b>	Drawing documentation No. 500 000, Revision (a), dated May 18, 1987, or later EASA approved revision	Drawing documentation No. 500 000, Revision (-), dated September 4, 1990, or later EASA approved revision	Drawing documentation No. 500 000, Revision (-), dated February 17, 1992, or later EASA approved revision
<b>2. Description</b>	The free hot-air balloon with the natural shaped envelope of the 2190 m3 volume is sewed of 28 polyamide gores. The parachute is used for closing of the vent opening. The single backuped burner is the heat source for the envelope.	The free hot-air balloon with the natural shaped envelope of the 3000 m3 volume is sewed of 24 polyamide gores. The parachute is used for closing of the vent opening. The double burner is the heat source for the envelope.	The free hot-air balloon with the natural shaped envelope of 2190 m3 and 3000 m3 volume, horizontal (O-type) or vertical cut (N-type) with 12, 20 or 24 gores in accordance with the envelope size and type. The parachute is used for closing of the vent opening. As option, the envelope can be equipped with rotation vent. The double burner is the heat source for the envelope.
	The basket is cane-work connected with the envelope by means of stainless-steel wires and carabiners with a screw gate. Stainless or dural cylinders of 20-30 kg fuel capacity (approved models are listed in the		

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approved Flight Manual) are fixed in the basket, the equipment and instruments are fixed on the inner side of the basket.

### 3. Equipment

- Altimeter
- A rate of climb indicator (variometer)
- Thermometer for internal envelope measuring
- Melting link for the envelope overheating check
- Fuel quantity gauge
- Double ignition equipment
- Drop line
- Fire extinguisher
- Heat-resistant cloth
- First aid kit

### 4. Envelope

O22	2190 m3 Volume	N30	3000 m3 Volume	AB 2	2190 m3 Volume
N22	2190 m3 Volume				
N30	3000 m3 Volume				

### 5. Burner

HB 2a	HB 2	HB 1
double	double	single backedup

### 6. Basket

J1	1.23 x 1.23 m, hgt. 1.00 m	1.1 x 1.1 m, hgt. 1.1 m
J2	1.23 x 1.35 m, hgt. 1.00 m	

### 7. Mass

O22 600 kg

#### Maximum take-off weight

N22	600 kg	N30	900 kg	AB 2a	600 kg
N30	900 kg				

### 8. Envelope temperature

max. 120°C	max. 120°C	max. 110°C
------------	------------	------------

### 9. Minimum Flight Crew

in accordance with approved Flight Manual	1 Pilot
-------------------------------------------	---------

### 10. Maximum number of persons on board

max. 6 persons	max. 6 persons	max. 4 persons
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### 11. Other Limitations

The balloon is approved for Day VFR flight

#### **IV. Operating and Service Instructions**

1. Letová příručka pro horkovzdušný balón (č. dokumentu: B.0101) issue 6 or later approved revision.
2. Flight manual for use with the hot air balloon (document No.: B.0102) issue 6 or later approved revision.
3. Flughandbuch für Heißluftballon (Dokument-Nr.: B.0103) issue 6 or later approved revision.
4. Příručka pro údržbu horkovzdušného balónu (č. dokumentu: B.0201) issue 5 or later approved revision.
5. Maintenance manual for use with the hot air balloon (document No.: B.0202) issue 5 or later approved revision.

#### **V. Notes**

1. Applicable for Aerotechnik AB – type balloons:
2. Applicable range of balloon parts or equipment from the other manufacturers – see the covering technical documentation.

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## Section 4 Administration

### I. Acronyms and Abbreviations

Acronym / Abbreviation	Definition
CAA	Civil Aviation Authority
EASA	European Union Aviation Safety Authority
MTOM	Maximum Take-Off Mass
TCH	Type Certificate Holder
TCDS	Type Certificate Data Sheet
TC	Type Certificate

### II. Type Certificate Holder Record

TCH Record	Period
Kubíček Factory s.r.o. Jarní 1003/2a 614 00 Brno CZECH REPUBLIC	Present. No changes.

### III. Amendment Record

TCDS Issue No.	TCDS Issue Date	Changes	TC Issue and Date
1	03 May 2024	This certificate supersedes EASA.BA.003. All Technical data taken from EASA.BA.003 Issue 62.	Issue 1 03 May 2024

– END –

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