



European Aviation Safety Agency

EASA TYPE CERTIFICATE DATA SHEET

BB

Manned Free Hot Air Balloon

Type Certificate Holder: **BALÓNY KUBÍČEK spol. s r.o.**
Francouzská 81
602 00 Brno
CZECH REPUBLIC

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

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

For Model: BB series
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SECTION A1 GENERAL, BB Type Design

A.I. General

1. Data Sheet No: EASA.BA.003 Issue 35 Date: 15 May 2017

2. Type / Variant or Model
 - Type: BB

 - Model: O-Type: BB9, BB12, BB16, BB20, BB22, BB26
 N-Type: BB22N, BB26N, BB30N, BB37N, BB45N, BB60N
 Z-Type: BB22Z, BB26Z, BB30Z, BB34Z, BB37Z, BB42Z,
 BB40Z, BB45Z, BB51Z, BB60Z, BB64Z, BB70Z,
 BB78Z, BB85Z, BB92Z, BB100Z

 P-Type: BB105P, BB106P, BB113P, BB120P, BB130P
 BB142P

 GP-Type: BB17GP, BB20GP

 XR-Type: BB17XR, BB20XR, BB22XR, BB26XR, BB30XR

 E-Type: BB9E, BB12E, BB16E, BB18E, BB20E, BB22E,
 BB26E, BB30E, BB34E

 ED-Type: BB20ED, BB22ED, BB26ED, BB30ED, BB34ED

 D-Type: BB22D, BB26D, BB30D, BB34D, BB37D,
 BB40D, BB42D, BB45D, BB51D, BB60D,
 BB70D, BB85D, BB100D

3. Airworthiness Category: Normal

4. Type Certificate Holder: BALÓNY KUBÍČEK spol. s r.o.
 Francouzská 81
 602 00 Brno

5. 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 (S/N 141 and higher)

6. National Certification Date: 10 February 1993

7. CAA CZ Application Date: 8 July 1992

8. EASA Application Date: 25 February 2005

9. EASA Type Certification Date: 25 February 2005

A.II. Certification Basis

- | | |
|--|---|
| 1. Reference Date for determining the applicable requirements: | Refer to Section A2, see Tables 1, 2, 3A, 3B |
| 2. CAA CZ Type Certificate Data Sheet No: | 93-01 |
| 3. EASA Certification Basis: | CRI A-01, issue - refer to Section A2, see Tables 1, 2,3A, 3B |
| 4. Airworthiness Requirements: | Refer to Section A2, see Tables 1, 2, 3A, 3B |
| 5. Special Conditions: | Lights for Manned Balloons Flights at Night, Issue 2, 22 October 2012 |
| 6. Reversion and Exemptions: | None |
| 7. Equivalent Safety Findings: | – 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 |

A.III. Technical Characteristics and Operational Limitations

- | | |
|----------------------------|---|
| 1. Type Design Definition: | Refer to Section A2 |
| 2. Description: | The free hot-air balloon with the natural shaped envelope of 900 – 14 200 m ³ 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 option the envelope can be equipped with rotation vent. 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. 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 listed in the Flight Manual), equipment and instruments are fixed on the inner side of the basket. |
| 3. Equipment: | <ul style="list-style-type: none">- Altimeter- A rate of climb indicator (variometer)- Melting link for the envelope overheating check- Fuel quantity gauge- Double fire equipment- Drop line- Fire extinguisher- Heat-resistant cloth |
| 4. Envelope: | Refer to Section A2, see Table 1, 4 and 5 |
| 5. Burner: | Refer to Section A2, see Table 2, 4 and 5 |
| 6. Basket: | Refer to Section A2, see Table 3A, 3B, 4 and 5 |
| 7. Fuel Cylinder: | Refer to Section A2, see Table 6 |
| 8. Mass: | Maximum take-off weight: Refer to Section A2, 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 A.V. Note 3 for details) |

A.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 EASA approved revision, see Section 2, Table 1

Letová příručka pro horkovzdušný balón (Dokument č.: B.0101)
- initial issue or later EASA 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 EASA accepted revision, see Section 2, Table 1

Příručka pro údržbu horkovzdušného balónu (Dokument č.: B.0201)
- initial issue or later EASA 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 EASA approved revision, see Section 2, Table 1
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 EASA approved revision, see Section 2, 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 EASA approved revision

Maintenance Manual for use with the hot air balloon (Document No.: B.3202)
- initial issue or later EASA approved revision

A.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)

SECTION A2: BB Type definition and certification data

Table 1: Envelopes

Variant	Volume [m ³]	Gores [pcs.]	MTOM [kg]	Reference date	Certification basis	Airworthiness requirements	AFM/MM applicable revision:		Drawing No.
							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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

Variant	Volume [m³]	Gores [pcs.]	MTOM [kg]	Reference date	Certification basis	Airworthiness requirements	AFM/MM applicable revision:		Drawing No.
							up to S/N 639	from S/N 640	
BB26D	2 600	24 D-type	840	5.1.2012	CRI A-01 17.2.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55210.00 2.8.2012
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
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
BB30XR	3 000	24 Z-type	945	15.6.2012	CRI A-01 2.7.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	16/6	55420.00 3.7.2012
BB30E	3000	12 E-type	840	28.7.2016	CRI A-01 11.8.2016	FAR 31, Amdt. 31-7, May 24, 1996	---	26/13	55560.00 24.10.2016
BB30ED	3 000	12 ED-type	840	5.1.2012	CRI A-01 30.1.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55360.00 2.8.2012
BB30D	3 000	24 D-type	945	5.1.2012	CRI A-01 17.2.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55220.00 2.8.2012
BB34Z	3 400	24 Z-type	1040	20.4.2006	CRI A-01 17.7.2006	FAR 31, Amdt. 31-7, May 24, 1996	11/7	0/0	52880.00 18.5.2005
BB34E	2400	12 E-type	945	28.7.2016	CRI A-01 11.8.2016	FAR 31, Amdt. 31-7, May 24, 1996	---	26/13	55600.00 24.10.2016
BB34ED	3 400	12 ED-type	945	5.1.2012	CRI A-01 30.1.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55370.00 2.8.2012
BB34D	3 400	24 Z-type	1040	5.1.2012	CRI A-01 17.2.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55230.00 2.8.2012
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
BB37Z	3 700	24 Z-type	1150	19.8.2006	CRI A-01 6.11.2006	FAR 31, Amdt. 31-7, May 24, 1996	11/8	0/0	53315.00 12.7.2006
BB37D	3 700	24 D-type	1150	5.1.2012	CRI A-01 17.2.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55240.00 2.8.2012
BB40Z	4 000	24 Z-type	1310	4.11.2008	CRI A-01 11.12.2008	FAR 31, Amdt. 31-7 May 24, 1996	---	0/0	53640.00 20.11.2008
BB40D	4 000	24 D-type	1310	5.1.2012	CRI A-01 17.2.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55250.00 2.8.2012
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
BB42D	4 250	24 D-type	1410	5.1.2012	CRI A-01 17.2.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55260.00 2.8.2012
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
BB45Z	4 500	24 Z-type	1520	19.8.2006	CRI A-01 6.11.2006	FAR 31, Amdt. 31-7, May 24, 1996	11/8	0/0	53320.00 12.7.2006
BB45D	4 500	24 D-type	1520	5.1.2012	CRI A-01 17.2.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55270.00 2.8.2012
BB51Z	5 100	24 Z-type	1690	20.10.2006	CRI A-01 14.2.2007	FAR 31, Amdt. 31-7, May 24, 1996	11/8	0/0	53430.00 24.10.2006
BB51D	5 100	24 D-type	1690	5.1.2012	CRI A-01 17.2.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55280.00 2.8.2012
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
BB60Z	5 950	24 Z-type	1940	18.1.2005	CRI A-01 4.4.2006	FAR 31, Amdt. 31-7, May 24, 1996	11/7	0/0	53000.00 1.12.2004
BB60D	5 950	24 D-type	1940	5.1.2012	CRI A-01 17.2.2012	FAR 31, Amdt. 31-7, May 24, 1996	---	17/7	55290.00 2.8.2012
BB64Z	6 400	24 Z-type	2100	28.7.2016	CRI A-01 11.8.2016	FAR 31, Amdt. 31-7, May 24, 1996	---	25/13	55490.00 18.8.2016
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

Variant	Volume [m ³]	Gores [pcs.]	MTOM [kg]	Reference date	Certification basis	Airworthiness requirements	AFM/MM applicable revision:		Drawing No.
							up to S/N 639	from S/N 640	
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
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
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
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
BB92Z	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
BB100Z	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
BB100D	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
BB105P	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
BB106P	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
BB113P	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
BB120P	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
BB130P	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
BB142P	14 200	32 Z-type	4500	15.01.2010	<u>CRI A-01</u> 09.02.20010	FAR 31, Amdt. 31-7, May 24, 1996	---	9/4	54260.00 19.2.2010

Table 2: Burners

Model	Reference date	Certification basis	Airworthiness requirements	Drawing No.	Applicable burner frames
H3	8.7.1992	---	FAR 31, Amdt. 31-4 September 11, 1980	50178.00 10.3.1993	Fixed Frame - H3 type
H3-D	8.7.1992	---	FAR 31, Amdt. 31-4 September 11, 1980	50306.00 7.3.1994	Fixed Frame - H3 - type
HB2	8.7.1992	---	FAR 31, Amdt. 31-4, September 11, 1980	50450.00 12.1.1999	Fixed Frame - H7 type
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
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
H4	29.2.1994	---	FAR 31, Amdt. 31-4 September 11, 1980	50179.00 10.3.1993	Fixed Frame - H4 type
KOMET TRIO	4.10.2002	---	FAR 31, Amdt. 31-7 May 24, 1996	53010.00 30.9.2003	Fixed Frame - K25P, K32T, K40Y - type
IGNIS	16.11.2005	<u>CRIA-01</u> 15.2.2007	FAR 31, Amdt. 31-7, May 24, 1996	53115.00 53128.00 53241.00 56001.00 54810.00 54894.00	Fixed / Vario Frame – basic (2 units), K25P (2 or 3 units), K32T(2 or 3 units), K40Y (3 units), K50 (2, 3 or 4 units), K60 (3 or 4 units), K70 (3 or 4 units), K80 (3 or 4 units) K60 STRONG (3 or 4 units), K32TT (2, 3 or 4 units), K50TT (2, 3 or 4 units) K100 (4 units)

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

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	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
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
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
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
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
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
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
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
K17	10.1.2008	1.16 x 1.45m, height 1.03-1.14 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
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
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
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
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
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
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
K28	13.8.2011	1.60 x 2.20 m, height 1.15 m	<u>CRI A-1</u> 15.6.2011	CS-31HB 27/02/2009	57100.00 1.6.2011	Fixed Frame - K32T - type
K28H	5.4.2016	1.6x 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
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

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

Model	Reference date	Dimension	Certification basis	Airworthiness requirements	Drawing document No.	Applicable burner frames
K32T	10.3.2011	1.60 x 2.40 m, height 1.10 m, T-Partition	<u>CRI A-1</u> 30.3.2011	FAR 31, Amdt. 31-7 May 24, 1996	53050.00 rev.c 25.1.2011	Fixed Frame - K32T - type
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	53050.02 1.8.2011	Fixed Frame - K32T - type
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	54950.00 15.6.2010	Fixed Frame - K32TT - type K50TT - type
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	52090.02 rev.a 10.3.2011	Fixed Frame K50 – type
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
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
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	54900.00 15.6.2010	Fixed Frame - K32TT – type K50TT - type
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
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
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	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
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
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
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
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	57150.00 19.01.2012	Fixed Frame - K100 type
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	57250.00 19.01.2012	Fixed Frame - K100 type
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	54890.00 1.9.2010	Fixed Frame - K100 type
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	54980.00 19.11.2010	Fixed Frame - K100 type

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

Model	Reference date	Dimension	Certification basis	Airworthiness requirements	Drawing document No.	Applicable burner frames
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	K10	K11, K12, K12A	K13, K13S	K15, K16, K17, K18, K19, K19L, K22	K23	K25P	K28, K28H, K30PP	K32T, K32Y	K32TT, K40T, K40Y, K50	K50TT	K50TT8, K55X, K58HH	K60X	K60, K70	K80	K85, K90, K100, K110	
BB9, BB9E																	
BB12, BB12E		124															
BB16, BB16E		124															
BB17XR		124															
BB17GP		124															
BB18E		124															
BB20, BB20ED BB20E, B20GP		124															
BB20XR		124															
BB22, BB22D, BB22ED, BB22E, BB22N, BB22Z, BB22XR		124															
BB26, BB26D, BB26ED, BB26E, BB26N, BB26Z, BB26XR		124															
BB30D, BB30ED, BB30N, BB30Z, BB30XR, BB30E																	
BB34D, BB34ED, BB34Z, BB34E																	
BB37D, BB37N, BB37Z							RV	RV	RV								
BB40D, BB40Z							RV	RV	RV								
BB42D, BB42Z							RV	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			
BB70D, BB70Z							RV 639		RV	RV	RV	RV	RV	RV	RV		
BB78Z										RV	RV	RV	RV	RV	RV		
BB85D, BB85Z										#RV	‡RV	RV	RV	RV	RV		
BB92Z												RV	RV	RV	RV		
BB100D, BB100Z												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	
BB130P													RV	RV	RV	RV	
BB142P													RV	+ 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 burner frame with the symbol S/N before its serial number may be used
124	= K10 baskets of S/N 124 and higher are to be combined with Komet Duo and Ignis – two units
‡	= Only the burner frame K50TT may be used

+	= Only the burner frame K60 STRONG may be used
639	= Applicable only for envelope s/n up to 639

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

<i>Envelope Model</i>	Burner									
	H3	H3-D	HB2	KOMET DUO up to 104	KOMET DUO 105+	H4	KOMET TRIO	IGNIS 2 units	IGNIS 3 units	IGNIS 4 units
BB9, BB9E										
BB12, BB12E										
BB16, BB16E										
BB17XR										
BB18E										
BB17GP										
BB20, BB20ED, BB20E, B20GP										
BB20XR										
BB22, BB22D, BB22ED, BB22E, BB22N, BB22Z										
BB22XR										
BB26, BB26D, BB26ED, BB26E, BB26N, BB26Z, BB26XR										
BB30D, BB30ED, BB30N, BB30Z, BB30XR, BB30E										
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										

	= Approved combination
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Table 6: Fuel Cylinders

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