

# CIVIL AVIATION AUTHORITY OF THE CZECH REPUBLIC

93-01 Revision 14 BALÓNY KUBÍČEK spol. s r.o. BB 15.07.2005
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## TYPE CERTIFICATE DATA SHEET No. 93-01

This data sheet which is a part of Type Certificate No. 93-01 prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Czech Republic.

<b>Model</b>	<b>Application Date</b>	<b>Certification Date</b>
BB	08.07.1992	10.03.1993

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## Model BB

### I. General

1. Data Sheet No.: 93-01
2. Model: BB
3. Airworthiness category: Normal
4. Type Certificate Holder: BALÓNY KUBÍČEK spol. s r.o.  
Francouzská 81  
602 00 Brno
5. Manufacturer: S/N 1 through 140  
Kubíček spol. s r.o.  
Francouzská 81  
602 00 Brno
- S/N 141 and up  
BALÓNY KUBÍČEK spol. s r.o.  
Francouzská 81  
602 00 Brno
6. Application Date: 08.07.1992
7. Certificate Date: 10.03.1993

### II. Certification Basis

1. Certification Basis: Federal Aviation Regulations, Part 31 - Airworthiness Standards: Manned Free Balloons, Amdt. 31-4, dated 11 September 1980  
K40Y basket, K32T basket, K25P basket, K22 basket, BB30Z envelope, BB20 GP envelope, BB42Z envelope, BB70Z envelope, KOMET DUO burner from S/N 105, KOMET TRIO burner: Federal Aviation Regulations, Part 31 - Airworthiness Standards: Manned Free Balloons, Amdt. 31-7, dated 24 April 1996
2. Special Conditions: None
3. Exemptions: None
4. Equivalent Safety Findings: FAR 31.47 (d) endurance test for KOMET DUO burner from S/N 105

### III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Drawing documentation No. 50001
2. Description: The free hot-air balloon with the natural shaped envelope of 1200 to 7000 m<sup>3</sup> volume, horizontal (O-type, Z-type) or vertical form (N-type) with 8, 12, 24 or 32 gores in accordance with the envelope size and type. The parachute, Smart Vent or Lite Vent (previous name Smart Vent +) is used for closing of the vent opening. As option, the envelope can be equipped with rotation vent. The single backuped, 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 carabiners with a screw gate. Preference of the basket and burner type should be provide with respect to the envelope size. Stainless, dural or titanium fuel cylinders (propan of common quality) are fixed in the basket, the equipment and instruments are fixed on the inner side of the basket.
3. Equipment:
  - Altimeter
  - Variometer
  - Thermometer for internal envelope measuring
  - Melting link for the envelope overheating check
  - Fuel quantity gauge
  - Double fire equipment
  - Dropline
  - Fire extinguisher
  - Heat-resistant cloth
  - First aid kit
4. Envelope

BB12	1200 m <sup>3</sup> Volume
BB16	1600 m <sup>3</sup> Volume
BB20	2000 m <sup>3</sup> Volume
BB20 GP	2000 m <sup>3</sup> Volume
BB22	2200 m <sup>3</sup> Volume
BB26	2600 m <sup>3</sup> Volume
BB30	3000 m <sup>3</sup> Volume
BB30Z	3000 m <sup>3</sup> Volume
BB37	3700 m <sup>3</sup> Volume
BB42Z	4250 m <sup>3</sup> Volume
BB45	4500 m <sup>3</sup> Volume
BB60	6000 m <sup>3</sup> Volume
BB70Z	7000 m <sup>3</sup> Volume
5. Burner:

H3	single backuped
H3-D	double
HB2	double
KOMET DUO	double
H4	triple
KOMET TRIO	triple

6. Basket:
- |      |  |
|------|--|
| K7   | 0.85 x 0.85 m, Height 1.10 m                 |
| K10  | 0.85 x 1.00 m, Height 1.10 m                 |
| K12  | 1.16 x 1.16 m, Height 1.10 m                 |
| K12A | 1.16 x 1.16 m, Height 1.10 m (Aristocrat)    |
| K15  | 1.16 x 1.25 m, Height 1.10 m                 |
| K16  | 1.16 x 1.40 m, Height 1.10 m                 |
| K18  | 1.16 x 1.55 m, Height 1.10 m                 |
| K22  | 1.25 x 1.79 m, Height 1.10 m                 |
| K25P | 1.25 x 2.08 m, Height 1.10 m (P – Partition) |
| K32T | 1.25 x 2.41 m, Height 1.15 m (T – Partition) |
| K40Y | 1.63 x 2.50 m, Height 1.15 m (Y – Partition) |
7. Weights:
- |         |                          |
|---------|--------------------------|
|         | Maximum take-off weight: |
| BB12    | 370 kg                   |
| BB16    | 450 kg                   |
| BB20    | 600 kg                   |
| BB20 GP | 700 kg                   |
| BB22    | 700 kg                   |
| BB26    | 800 kg                   |
| BB30    | 900 kg                   |
| BB30Z   | 900 kg                   |
| BB37    | 1100 kg                  |
| BB42Z   | 1350 kg                  |
| BB45    | 1450 kg                  |
| BB60    | 1650 kg                  |
| BB70Z   | 2200 kg                  |
8. Envelope temperature: In accordance with the used fabric as follows :
- |  |                                 |
|--|---------------------------------|
|  | Lückerhaus fabric - max. 110 °C |
|  | Carrington fabric - max. 110 °C |
|  | Kubíček fabric - max 124 °C     |
9. Minimum Flight Crew: 1 Pilot
10. Number of passengers on board: In accordance with the Flight Manual
11. Other Limitations: The balloon is approved for VFR day flights.

#### IV. Operating and Service Instructions

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

#### V. Notes

1. Applicable range of balloon parts or equipment from the other manufacturers – see the covering technical documentation.
2. **EASA TC No. EASA.BA.003 has been issued for type BB balloons on February 8, 2005.**