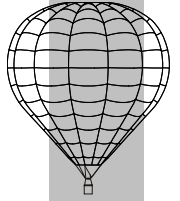


## ULTRAMAGIC FLIGHT MANUAL SUPPLEMENT 46

### B-series Envelopes



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#### 46.1 General Information

In this supplement are introduced the particular characteristics, instructions and limitations necessary to ensure the safe operation, maintenance and continued airworthiness of the Ultramagic B-series Envelopes.

This supplement is specific to the following Envelopes and equipment:

Envelope: B-70 (1982 m<sup>3</sup>)

The section indexes on this supplement are preceded with the §46.X, and the suffix is kept in line with the Ultramagic Flight Manual. The content of this supplement replaces or appends the information contained on the Flight Manual for the balloon or parts to which this supplement is intended.

#### 46.2 Limitations of use

No change.

#### 46.3 Emergency procedures

No change.

#### 46.4 Standard procedures

##### 46.4.5.2 Rigging the Basket and Burner

Add the following:

A single karabiner with a minimum working load of 900 kg may be used on each corner of the burner frame to attach the flying wires from the envelope. Those karabiners shall be engraved with limit load and must be supplied or approved by Ultramagic.

**46.5 Loading****46.5.2 Table of Empty Weight and Maximum Lift**

For the calculations in the Load Chart of chapter 5 of the Flight Manual will be used the following characteristics:

Model	V	Basket	Pv	Lmax
B-70	1982	CT-01	104	505
		CT-02	127	600
		CT-03	108	566
		C-0	119	377
		C-2	124	600
		C-1	130	600
		C-3	133	600
		C-10	142	600
		DUO	81	450

V = Volume [m<sup>3</sup>]

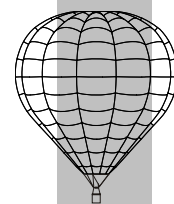
Pv = Empty weight (without any cylinder) [Kg]

Lmax = Maximum authorised Lift [Kg]

**46.5.4 Table of Compatibility**

SIZE	B-70
<b>BURNERS</b>	
BMK-008 Single	*
BMK-008 Double	x
MK-21 Single	x
MK-21 Double	x
<b>BASKETS</b>	
CT-01	x
CT-02	x
CT-03	*
C-0	x
C-1	x
C-2	x
C-10	x
C-3	x
DUO	x
MIN.CYL.	2

- Standard configuration = \*
- Compatible configuration = x



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### 46.5.6 Reduced Maximum Take Off Mass Operation

The Reduced MTOM for B-70 is of 575 kg.

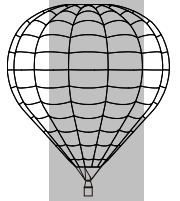
## 46.6 Balloon and Systems Description

### 46.6.3 Dimensions and Weights

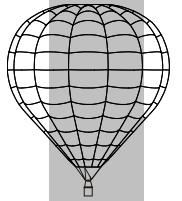
See following table corresponding to mass and dimensions:

SERIES S	
Type	B-70
Vol. (m <sup>3</sup> )	1982
Number of gores	12
FAI class	AX-7
Total height (m)	21.80
Standard basket	CT-03
Weight in Standard configuration (Kg)	*130
<b>Envelope</b>	
Height (m)	17.60
Max Diameter (m)	15.60
Diameter at the mouth (m)	3.80
Weight (kg)	50
Min. Karabiner strength (kg)	900
<b>Parachute</b>	
Diameter (m)	4.50

\* incl. 2 M-20D cylinders at 100%,CT-03 basket, BMK-008singleburner/frame, envelope and minimum equipment



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**46.7 Balloon Maintenance, Handling and Care**

**46.7.2 Inspection Periods**

Refer to Maintenance Manual Supplement 17.

**46.8 Other manufacturer's equipment**

No change.

**46.A Vertical Velocities and Altitude Recovery**

Add following graph:

