ULTRAMAGIC FLIGHT MANUAL SUPPLEMENT 38
'Tekno' Envelopes

38.1 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 'Tekno' Envelopes.

This supplement is specific to the following Envelopes and equipment:

Envelope: S-50(1415m³)

S-70 (1982 m³)

The section indexes on this supplement are preceded with the §38.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.

38.2 Limitations of use

No change.

38.3 Emergency procedures

No change.

38.4 Standard procedures

38.4.5.2 Rigging the Basket and Burner

Add the following:

A single stainless steel karabiner with a 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 properly engraved and must be supplied or approved by Ultramagic.

38.5 Loading

38.5.2 Table of Empty Weight and Maximum Lift

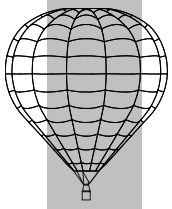
For the calculations in the Load Chart of chapter 5 of the Flight Manual will be used the following characteristics:

Model	V	Basket	Pv	Lmax
S-50	1415	Tekno	99	500
		Tekno L	120	500
		C-0	109	372
		C-2	114	500
		C-1	120	500
		DUO	78	450
S-70	1982	Tekno	113	515
		Tekno L	135	650
		C-0	127	385
		C-2	132	650
		C-1	138	650
		DUO	89	450

V=volume [m³]
Pv=Empty weight (without any cylinder) [Kg]
Lmax=Maximum authorised Lift [Kg]

38.5.4 Table of Compatibility

SIZE	S-50	S-70
BURNERS		
BMK-008 Single	*	*
BMK-008 Double		x
MK-21 Single	x	x
MK-21 Double		x
BASKETS		
Tekno	*	x
Tekno L	x	*
C-0	x	x
C-1	x	x
C-2	x	x
DUO	x	x
MIN.CYL.	2	2



38.5.6 Reduced Maximum Take Off Mass Operation

The Reduced MTOM for S-50 is of 483 kg.
The Reduced MTOM for S-70 is of 625 kg.

38.6 Balloon and Systems Description

38.6.3 Dimensions and Weights

See following table corresponding to mass and dimensions:

SERIES S

Type	**S-50**	**S-70**
Vol. (m^3)	1415	1982
Number of gores	16	16
FAI class	AX-6	AX-7
Total height (m)	18.28	20.00
Standard basket	CT-01	CT-02
Weight in Standard configuration (Kg)	*133	**169
Envelope		
Height (m)	14.08	15.80
Max Diameter (m)	14.65	16.20
Diameter at theMouth (m)	3.60	3.60
Weight (kg)	49	60
Min. Karabiner strength (kg)	900	2500
Parachute		
Diameter (m)	5.00	5.50

* incl. 2 M-20D cylinders at 10%, 'tekno' basket, BMK-008 single burner/frame, envelope and minimum equipment
** incl. 2 M-20D cylinders at 100%, 'tekno L' basket, BMK-008singleburner/frame, envelope and minimum equipment

38.7 Balloon Maintenance, Handling and Care

38.7.2 Inspection Periods

Refer to Maintenance Manual Supplement 17.

38.8 Other manufacturer's equipment

No change.

38.A Vertical Velocities and Altitude Recovery

Add following graph: