
TYPE-CERTIFICATE DATA SHEET

UK.TC.BA.00088

for

ULTRAMAGIC MANNED FREE HOT AIR BALLOONS

Type Certificate Holder
Ultramagic, S.A.

Aerodrom Igualada-Odena s/n
08711 Odena
Spain

For Models:

- H Series
- S Series
- T Series
- V Series
- M Series
- N Series
- Z Series
- B Series
- G Series

Issue: 1

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SECTION 1: GENERAL (applicable to all models)

I. GENERAL

This Type-Certificate Data Sheet (TCDS) is the concise definition of the type-certificated product accepted and or approved by the CAA in the UK for the affected types and models.

This TCDS includes:

1. Details of the type design that affect the TCDS that have been approved or accepted by the CAA in the UK since 01 January 2021.
2. Details of the type design that affected the TCDS and were approved or accepted by EASA before 31 December 2020, and were incorporated into EASA TCDS EASA.BA.014 at Issue 27 dated 07 August 2023 and are therefore accepted by the UK under Article 15 of Annex 30 of the UK-EU Trade and Cooperation Agreement.
3. All EASA approved or accepted Changes, including manuals and any other data that is considered part of Type Design are deemed to be UK-CAA approved if issued before 31 December 2020. Any changes after this date to Type Design Data must be shown to be UK-CAA approved or accepted.

1. Data Sheet No: UK.TC.BA.00088 Issue 1, Dated: 13 October 2023

2. Type / Variant or Model

- | | |
|----------------------|--|
| (a) Type: | Series H , Series S, Series T, Series V, Series M,
Series N, Series Z, Series B, Series G |
| (b) Variant or Model | Refer to Sections 2 to 10 |

3. Category: Free Manned Hot Air Balloon

4. Type Certificate Holder: ULTRAMAGIC, S.A.
Aerodrom Igualada-Odena s/n
08711 ODENA
Spain

5. Manufacturer: ULTRAMAGIC, S.A.
Aerodrom Igualada-Odena s/n
08711 ODENA
Spain

6. National certification date: Various, refer to Sections 2 to 10

7. DGAC-ES application date: Various, refer to Sections 2 to 10

8. EASA certification date: 19 January 2006

9. TCDS History: This EASA TCDS replaces the former Spanish TCDS no. 3 rev. 18, no. 4 rev. 8 , no. 18 rev. 7, no. 61 rev. 12, no. 147 rev. 4 and no. 247 rev. 2 issued by the DGAC-ES.
From EASA.BA.014 Issue 6 onwards all special shape balloons are embraced by EASA.BA.517.

II. CERTIFICATION BASIS

This Type Certificate has initially been issued according to the requirements of la Dirección General de Aviación Civil (DGAC) following 14 CFR Part 31 corresponding to Manned Hot Air Balloons Part 31, Amdt. 4, of 14 October 1980.

For models M-42, M-56, M-56C, M-77C, M-90, N-355 and N-425 the applied rule corresponds to 14 CFR Part 31, Amdt. 5, 18 August 1990.

For models T-150, T-180 and T-210 the applied rule corresponds to 14 CFR Part 31, Amdt. 7, 24 May 1996.

For model V-25 the applied rule corresponds to 14 CFR Part 31, Amdt. 7, 24 May 1996, and Special Condition: EASA CS 31HB, draft dated 27 February 2003.

For model S-50 and N-500 the applied rule corresponds to 14 CFR Part 31, Amdt. 7, 24 May 1996 and CS-31HB, 27 February 2009.

For model B-26, B-40, B-50, B-55, B-60 and B-70, the applied rules corresponds to CS-31HB/1 (Amdt 1).

For model G-90, N-370, and N-450 the applied rule corresponds to CS-31HB/1 (Amdt 1), 12 December 2011.

For model S-70, M-56Z, M-60Z, M-65Z, M-70Z and M-74Z the applied rule corresponds to 14 CFR Part 31, Amdt. 7, 24 May 1996 and CS-31HB/1 (Amdt 1), 12 December 2011.

For burners MK-2 the applied rule corresponds to 14 CFR Part 31, Amdt. 4, from 11 September 1980.

For burners MK-2 Super and MK-10 the applied rule corresponds to 14 CFR Part 31, Amdt. 5, from 18 August 1990.

Alternative means of compliance concerning 14 CFR Part 31 paragraph 31.47(d) (Amdt. 7, 24 May 1996) were applied to the burner models MK-2, MK-2 Super and MK-10. A special test programme was established to ensure the equivalent level of safety.

For Burner MK-21 (Single, Double, Triple and Quadruple, including the Electric variant), the applied rule is 14 CFR Part 31 Amdt. 31-7, from 24/May/1996.

For burners BMK-008 and BMK-050 the applied rule corresponds to 14 CFR Part 31, Amdt. 7, 24 May 1996, and Special Condition: EASA CS 31HB, draft dated 27 February 2003.

For Burner MK-32 the applied rules are 14 CFR Part 31 Amdt. 31-7, from 24/May/1996, CS-31HB Amdt.1, 05/Dec/2011 and Special Conditions based on CS-23 and 14 CFR Part 23.

For Baskets C-10 and C-11 the applied rule is 14 CFR Part 31 Amdt. 31-5, from 18/Aug/1990.

For Basket C-12 the applied rule is 14 CFR Part 31 Amdt. 31-7, from 24/May/1996

For SOLO and DUO bottom end the applied rules are 14 CFR Part 31, Amdt. 7, 24 May 1996, and Special condition: EASA CS 31HB, draft dated 27 February 2003.

For Baskets C-14 and CT-01, the applied rules are 14 CFR Part 31 Amdt. 31-7, from 24/May/1996 and CS-31HB, 27 February 2009.

For Baskets CT-02, CT-03 CV-06 and CV-08 the applied rules are 14 CFR Part 31 Amdt. 31-7, from 24/May/1996 and CS-31HB Amdt.1, 05/Dec/2011. For CV-06 and CV-08 Basket, Special Conditions based on CS-31HA Draft are also applied.

For Cylinders T-25, M-20/M-20D, M-30/M-30D and M-40/M-40D, the applied rule is 14 CFR Part 31 Amdt. 31-5, from 18/Aug/1990.

For Cylinder W-2.8, the applied rules are 14 CFR Part 31 Amdt. 31-7, from 24/May/1996 and CS-31HB Amdt.1, 05/Dec/2011.

III. COMMON DATA TO ALL MODELS

Equipment:	for FAR Part 31: - 1 Altimeter - 1 Rate of climb/descent indicator (variometer) - 1 Remaining fuel quantity gauge for each fuel cell for CS 31HB (draft February 2007) in addition: - 1 Fuel pressure gauge for each burner for CS 31HB, February 2009, and CS 31HB/1, December 2011 in addition: - 1 Fuel pressure gauge for each burner - 1 Rate of climb/descent indicator (variometer), if Flight Manual limitations specify a rate of climb or descent - 1 'Kit' of tethering components, if the balloon is specifically approved for tethered operations for all balloons: - Alternative means for burner ignition (lighter or similar) - 1 Envelope limit temperature indicator - Fire extinguisher - Flight Manual, EASA approved Additional operational equipment may be required by national legislation
Fuel:	Commercial LPG, usually propane, except if burner is configured for butane
Minimum crew:	1 pilot
Compatibility with approved parts of other manufacturers:	See approved Supplements to Ultramagic Flight Manual. Only listed approved configurations shall be used. The latest Service Instructions of the other manufacturer's parts shall be used for maintenance
Maintenance schedule:	Annual or 100 hours inspections, whichever applies earlier one and following the Flight Manual and Maintenance Manual corresponding to the specific balloon configuration
Operation and Service Instructions:	Flight Manual for Ultramagic Balloons and applicable Supplements – or later approved revisions Maintenance Manual for Ultramagic Balloons and applicable Supplements - or later accepted revisions Operation and Service Instructions specific to aircraft registration or constructors number with an issue date prior to 28 September 2003 may continue to be used. Inspection shall be in accordance with the latest issue of the inspection schedule - Maintenance Manual for Ultramagic Balloons and applicable Supplements or later EASA accepted revision refers

SECTION 2 : SERIES H

Former DGAC-ES Type Certificate Data Sheet reference: 03

2.1. General

Model	H-31	H-42	H-56	H-65	H-77
Approved	18 Feb 2000	1 Oct 1992	15 Oct 1987	1 Mar 1985	1 Mar 1985
Technical Description					
Volume [m ³]	900	1200	1590	1840	2190
Number of gores	12	12	12	12	12
Disposition	horizontal	horizontal	horizontal	horizontal	horizontal
Max diameter [m]	12.5	13.8	15.5	16.3	17.3
Total height [m]	16.2	17.3	19.0	19.9	21.0
MTOM [kg]	307	416	549	638	756
Drawing number	1012	1035	1007	1003	1002
Serial numbers eligible	31-01 & up	42-01 & up	56-01 & up	65-01 & up	77-01 & up
Fuel cylinder quantity					
Worthington 4100-U4-27	1	2 or more	2 or more	2 or more	2 or more
UM Type M-20 or M-20D	1	2 or more	2 or more	2 or more	2 or more
UM Type M-30 or M-30D	1	2 or more	2 or more	2 or more	2 or more
UM Type T-25	1	2 or more	2 or more	2 or more	2 or more
UM Type M-40 or M-40D	1	2 or more	2 or more	2 or more	2 or more
Notes on 2.3	1)* & 2)*, 3)*	1)*, 3)*	1)*, 3)*	3)*	3)*

Envelope Options: Scoop or skirt. Rotation vents (see Note 8). Artwork banners.**Envelope Temperature:** 1) Not exceed by any concept 130°C
2) Max. continuous temperature 120°C**Burner:** See § 2.2 : Burners and Baskets for H models.**Basket:** See § 2.2 : Burners and Baskets for H models**Maximum Weight:** That one permitting the flight with the continuous temperature lower than 120°C, or according to the basket/equipment used based on § 2.2, whatever is less.
See Load Chart in Flight Manual Chap. 5.**2.2. Burners and Baskets for H models**

BURNER								
Model	MK-1	MK-2/SUPER		MK-10		MK-21		MK-21/ELEC
Units	double	single	double	single	double	single	double	option
Drawing	2001	2003/2005	2002/2006	2011	2012	2021	2022	2022/0100-0000-0200
H-31	----	X	----	X	----	X	----	----
H-42	----	X	----	X	----	X	----	----
H-56	----	X	X	X	X	X	X	X
H-65	X	X	X	X	X	X	X	X
H-77	X	X	X	X	X	X	X	X

BURNER (contd.)			
Model	BMK-008		MK-32
Units	single	double	double
Drawing	2031	2032	2062
H-31	X	----	----
H-42	X	----	----
H-56	X	X	X
H-65	X	X	X
H-77	X	X	X

BASKET									
Model	C0	CT-01 see Sec. 11, Notes 3), 5)	CT-02 see Sec. 11, Notes 4), 5)	CT-03 see Sec. 11, Notes 4), 5)	C1	C2	C3	C4	C10
Size [m]	0.7x0.8	0.8x1.0	1.0x1.2	0.8x1.2	1.0x1.2	1.0x1.0	1.1x1.3	1.2x1.6	1.15x1.4 5
Drawing	3000	3200	3202	3203	3001	3002	3003	3004	3010
H-31	307	307	----	----	----	307	----	----	----
H-42	373	416	416	416	416	416	----	----	----
H-56	399	527	549	549	549	549	----	----	----
H-65	----	536	638	584	638	638	638	----	638
H-77	----	540	756	589	756	756	756	756	756
* Compatibility and maximum mass in [kg]									

BOTTOM ENDS		
Model	SOLO see Sec. 11 Note 7)	DUO see Sec. 11 Note 7)
Size	-----	-----
Drawing	5001	5002
H-31	300	300
H-42	300	400
H-56	----	450
H-65	----	----
H-77	----	----
* Compatibility and maximum mass in [kg]		

2.3 Notes

1)*

Fuel cylinder quantity	H-31	H-42	H-56
With DUO	2	2	2
With SOLO	1	1	----
For all approved cylinders			

2)* Approved optional modifications (exclusively for Model H-31)

Basket Cameron/Thunder&Colt with burner incorporated, model SKYCHARIOT according drawing SC2-002 for basket and drawing CB8711 for the burner.

Maximum Weight: 250 kg, or that one permitting the flight with the continuous temperature lower than 120°C, whatever is less.
See Load Chart in Flight Manual Chap. 5.

Basket Cameron/Thunder&Colt with burner incorporated, Model CLOUDHOPPER MILLENIUM according drawing CB8320 for basket and drawings n° CB8327 and CB8337 for the burner.

Maximum Weight: 250 kg, or that one permitting the flight with the continuous temperature lower than 120°C, whatever is less.
See Load Chart in Flight Manual Chap. 5.

3)*

External mounting of fuel cylinders approved for basket model CT-01 if equipped with an MK-21 single, a Single MK-21/Elec (not for H-31 and H-42) or a Single BMK-008 burner and with one of these fuel cylinders combinations (see Flight Manual Supplement No. 39, Issue 2 or later):
two Worthington 4100-U4-27, two UM Type M-20/M-20D, two UM Type M-30/M-30D, four Worthington 4100-U4-27, four UM Type M-20/M-20D, four UM Type M-30/M-30D, two Worthington 4100-U4-27 plus two UM Type M-20/M-20D, two Worthington 4100-U4-27 plus two UM Type M-30/M-30D, two UM Type M-20/M-20D plus two UM Type M-30/M-30D.

SECTION 3 : SERIES S

Former DGAC Spain Type Certificate Data Sheet reference: 18

3.1. General

Model	S-50	S-70	S-90	S-105	S-130	S-160
Approved	5 Feb 2010	25 Feb 2013	22 Dec 1988	15 Oct 1987	3 Jul 1989	16 Jan 1992
Technical Description						
Volume [m ³]	1 415	1 982	2 550	2 950	3 680	4 550
Number of gores	16	16	16	16	16	16
Disposition	horizontal	horizontal	horizontal	horizontal	horizontal	horizontal
Max diameter [m]	14.7	16.2	18.1	19.1	20.6	22.1
Total height [m]	18.3	15.8	21.9	22.9	24.5	26.2
MTOM [kg]	500	650	878	1 032	1 365	1 569
Drawing number	1062	1063	1013	1014	1015	1016
Serial numbers eligible	50-01 & up	70-01 & up	90-01 & up	105-01 & up	130-01 & up	160-01 & up
Fuel cylinder quantity						
Worthington 4100-U4-27	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more
UM Type M-20 or M-20D	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more
UM Type M-30 or M-30D	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more
UM Type T-25	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more
UM Type M-40 or M-40D	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more
Notes on 3.3	1)*	1)*				

Envelope Options: Scoop or skirt. Rotation vents (see Note 8). Artwork banners.**Envelope Temperature:** 1) Not exceed by any concept 130°C
2) Max. continuous temperature 120°C**Burner:** See § 3.2 : Burners and Baskets for S models**Basket:** See § 3.2 : Burners and Baskets for S models**Maximum Weight:** That one permitting the flight with the continuous temperature lower than 120°C, or according to the basket/equipment used based on § 3.2, whatever is less.
See Load Chart in Flight Manual Chap. 5.**3.2. Burners and Baskets for S models**

BURNER								
Model	MK-2/SUPER		MK-10		MK-21			MK-21/ELEC
Units	double	triple	double	triple	single	double	triple	option
Drawing	2002/2006	2004/2007	2012	2013	2021	2022	2023	2022/0100-0000-0200
S-50	----	----	----	----	X	----	----	----
S-70	----	----	----	----	X	X	----	----
S-90	X	----	X	----	X	X	----	X
S-105	X	X	X	X	X	X	X	X
S-130	X	X	X	X	----	X	X	X
S-160	X	X	X	X	----	X	X	X

BURNER (contd.)				
Model	BMK-008		MK-32	
Units	single	double	double	triple
Drawing	2031	2032	2062	2063
S-50	X	----	----	----
S-70	X	X	X	----
S-90	X	X	X	----
S-105	X	X	X	----
S-130	----	X	X	X
S-160	----	X	X	X

BASKET								
Model	C0	CT-01 see Sec. 11, Notes 3), 5)	CT-02 see Sec. 11 Notes 4), 5)	CT-03 see Sec. 11, Notes 4), 5)	C1	C2	C3	C4
Size [m]	0.7x0.8	0.8x1.0	1.0x1.2	0.8x1.2	1.0x1.2 m	1.0x1.0	1.1x1.3	1.2x1.6
Drawing	3000	3200	3202	3203	3001	3002	3003	3004
S-50	372	500	500	500	500	500	----	----
S-70	385	515	650	559	650	650	----	----
S-90	----	----	768	593	878	878	878	878
S-105	----	----	777	602	1 032	----	1 032	1 032
S-130	----	----	794	619	1 235	----	1 365	1 365
S-160	----	----	----	----	----	----	----	1 569
* Compatibility and maximum mass in [kg]								

BASKET							BOTTOM END
Model	C5	C6	C7	CV-06 see Sec. 11, Notes 6), 9)	CV-08 see Sec. 11, Note 6)	C10	DUO see Sec. 11 Note 7)
Size [m]	1.4x2.2	1.3x1.8	1.4x2.0	1.5x1.7	1.5x2.6	1.15x1.45	-----
Drawing	3005	3006	3007	3106	3108	3010	5002
S-50	----	----	----	----	----	878	450
S-70	----	----	----	----	----	----	450
S-90	----	----	----	878	----	878	----
S-105	----	----	----	1 032	1 032	1 032	----
S-130	1 365	1 321	1 365	1 365	1 365	1 205	----
S-160	1 569	1 333	1 569	1 479	1 569	1 227	----
* Compatibility and maximum mass in [kg]							

3.3 Notes

1) *

Fuel cylinder quantity	S-50	S-70
With DUO	2	2
For all approved cylinders		

SECTION 4 : SERIES T

Former DGAC Spain Type Certificate Data Sheet reference: 247

4.1. General

Model	T-150	T-180	T-210
Approved	15 Jan 2003	14 Feb 2002	15 Oct 2002
Technical Description			
Volume [m ³]	4 245	5 100	6 000
Number of gores	20	20	20
Disposition	horizontal	horizontal	horizontal
Max diameter [m]	20.9	22.2	24.3
Total height [m]	25.0	27.3	28.6
MTOM [kg]	1 465	1 754	2 070
Drawing number	1 059	1 045	1 046
Serial numbers eligible	150-01 & up	180-29 & up	210-20 & up
Fuel cylinder quantity			
Worthington 4100-U4-27	2 or more	2 or more	2 or more
UM Type M-20 or M-20D	2 or more	2 or more	2 or more
UM Type M-30 or M-30D	2 or more	2 or more	2 or more
UM Type T-25	2 or more	2 or more	2 or more
UM Type M-40 or M-40D	2 or more	2 or more	2 or more

Envelope Options: Scoop or skirt. Rotation vents. Artwork banners.

Envelope Temperature: 1) Not exceed by any concept 130°C
 2) Max. continuous temperature 120°C

Burner: See § 4.2 : Burners and Baskets for T models**Basket:** See § 4.2 : Burners and Baskets for T models

Maximum Weight: That one permitting the flight with the continuous temperature lower than 120°C,
 or according to the basket/equipment used based on § 4.2, whatever is less.
 See Load Chart in Flight Manual Chap. 5.

4.2. Burners and Baskets for T models

BURNER									
Model	MK-2 / SUPER			MK-10			MK-21		
Units	double	triple	quad	double	triple	quad	double	triple	quad
Drawing	2002/2006	2004/2007	2008	2012	2013	2014	2022	2023	2024
T-150	----	----	----	X	X	----	X	X	----
T-180	----	X	X	X	X	X	X	X	X
T-210	----	X	X	----	X	X	X	X	X

BURNER (contd.)						
Model	MK-21 / ELEC	BMK-008	BMK-050	MK-32		
Units	option	double	double	double	triple	quad
Drawing	2022/0100- 0000-0200	2032	2052	2062	2063	2064
T-150	X	X	----	X	X	----
T-180	X	X	X	X	X	X
T-210	X	X	X	X	X	X

BASKET										
Model	C3	C4	C5	C6	C7	C8	CV-06 see Sec. 11, Note 6), 9)	CV-08 see Sec. 11, Note 6)	C9	C10
Size[m]	1.1x1.3	1.2x1.6	1.4x2.2	1.3x1.8	1.4x2.0	1.5x2.6	1.5x1.7	1.5x2.6	1.6x3.0	1.15x1.45
Drawing	3003	3004	3005	3006	3007	3008	3106	3108	3009	3010
T-150	1 465	1 465	1 465	1 355	1 465	----	1 465	1 465	----	1 256
T-180	----	----	1 754	1 372	1 611	1 754	1 510	1 676	1 754	----
T-210	----	----	1 930	----	1 626	2 070	----	1 684	2 070	----
* Compatibility and maximum mass in [kg]										

BASKET	
Model	C11
Size[m]	1.7x3.5
Drawing	3011
T-150	----
T-180	----
T-210	2 070
* Compatibility and maximum mass in [kg]	

SECTION 5 : SERIES V

Former DGAC Spain Type Certificate Data Sheet reference: 03 (models V-65, V-77)

Former DGAC Spain Type Certificate Data Sheet reference: 04 (models V-56, V-90, V-105)

5.1. General

Model	V-25	V-56	V-65	V-77	V-90	V-105
Approved	12 May 2006	15 Sep 1989	1 Mar 1985	1 Mar 1985	15 Oct 1989	25 Jun 1989
Technical Description						
Volume [m ³]	708	1 650	1 840	2 190	2 550	2 950
Number of gores	24	24	24	24/32	24	24
Disposition	vertical	vertical	vertical	vertical	vertical	vertical
Max diameter [m]	11.5	15.2	16.0	17.0/16.6	17.9	18.8
Total height [m]	14.6	19.0	19.9	20.9/21.0	21.9	22.9
MTOM [kg]	250	549	638	756	878	1 032
Drawing number	1060/010	1008	1004	1001/1017	1018	1019
Serial numbers eligible	25-01 & up	56-01 & up	65-01 & up	77-04 & up	90-01 & up	105-10 & up
Fuel cylinder quantity						
Worthington 4100-U4-27	1	2 or more	2 or more	2 or more	2 or more	2 or more
UM Type M-20 or M-20D	1	2 or more	2 or more	2 or more	2 or more	2 or more
UM Type M-30 or M-30D	1	2 or more	2 or more	2 or more	2 or more	2 or more
UM Type T-25	1	2 or more	2 or more	2 or more	2 or more	2 or more
UM Type M-40 or M-40D	1	2 or more	2 or more	2 or more	2 or more	2 or more
Notes on 5.3	1)*	2)*	1)*, 2)*	2)*		

Envelope Options: Scoop or skirt. Rotation vents (see Note 8). Artwork banners.**Envelope Temperature:** 1) Not exceed by any concept 130°C
2) Max. continuous temperature 120°C**Burner:** See § 5.2 : Burners and Baskets for V models**Basket:** See § 5.2 : Burners and Baskets for V models**Maximum Weight:** That one permitting the flight with the continuous temperature lower than 120°C, or according to the basket/equipment used based on § 5.2, whatever is less.
See Load Chart in Flight Manual Chap. 5.**5.2. Burners and Baskets for V models**

BURNER										
Model	MK-1	MK-2 / SUPER			MK-10			MK-21		
Units	double	single	double	triple	single	double	triple	single	double	triple
Drawing	2001	2003/2005	2002/2006	2004/2007	2011	2012	2013	2021	2022	2023
V-25	----	----	----	----	----	----	----	X	----	----
V-56	----	X	X	----	X	X	----	X	X	----
V-65	X	X	X	----	X	X	----	X	X	----
V-77	X	X	X	----	X	X	----	X	X	----
V-90	----	----	X	----	----	X	----	--	X	----
V-105	----	----	X	X	----	X	X	--	X	X

BURNER (contd.)				
Model	MK-21 / ELEC	BMK-008		MK-32
Units	option	single	double	double
Drawing	2022/0100-0000-0200	2031	2032	2062
V-25	X	X	----	----
V-56	X	X	X	X
V-65	X	X	X	X
V-77	X	X	X	X
V-90	X	X	X	X
V-105	X	X	X	X

BASKET								
Model	C0	CT-01 see Sec. 11, Notes 3), 5)	CT-02 see Sec. 11, Notes 4), 5)	CT-03 see Sec. 11, Notes 4), 5)	C1	C2	C3	C4
Size [m]	0.7x0.8	0.8x1.0	1.0x1.2	0.8x1.2	1.0x1.2	1.0x1.0	1.1x1.3	1.2x1.6
Drawing	3000	3200	3202	3203	3001	3002	3003	3004
V-25	----	----	----	----	----	----	----	----
V-56	402	530	549	549	549	549	----	----
V-65	----	536	638	584	638	638	638	----
V-77	----	540	756	589	756	756	756	756
V-90	----	----	770	595	878	878	878	878
V-105	----	----	782	607	1 032	----	1 032	1032
* Compatibility and maximum mass in [kg]								

BASKET				BOTTOM END	
Model	CV-06 see Sec. 11, Note 6), 9)	CV-08 see Sec. 11, Note 6)	C10	SOLO see Sec. 11-Notes 7)	DUO see Sec. 11 Note 7)
Size	1.5x1.7	1.5x2.6	1.15x1.45	-----	-----
Drawing	3106	3108	3010	5001	5002
V-25	----	----	----	250	----
V-56	----	----	----	----	450
V-65	----	----	638	----	----
V-77	----	----	756	----	----
V-90	878	----	878	----	----
V-105	1 032	1 032	1 032	----	----
* Compatibility and maximum mass in [kg]					

5.3 Notes

1) *

Fuel cylinder quantity	V-25	V-56
With DUO	----	2
With SOLO	1	----
For all approved cylinders		

2)* (moved – see Sec. 11, Notes 3), 5))

SECTION 6 : SERIES M

Former DGAC Spain Type Certificate Data Sheet reference: 03

6.1. General

Model	M-42	M-56	M-56C	M-56Z	M-60Z	M-65	M-65C
Approved	22 Apr 2003	6 Feb 1998	8 Jul 1999	11 Jul 2023	11 Jul 2023	25 Mar 1988	4 Mar 1997
Technical Description							
Volume [m ³]	1 200	1 590	1 590	1 590	1 700	1 840	1 840
Number of gores	24	24	24	24	24	24	24
Disposition	horizontal	horizontal	horizontal	horizontal	horizontal	horizontal	horizontal
Max diameter [m]	13.6	14.9	13.8	13.7	14	16.0	14.7
Total height [m]	17.5	18.8	17.3	22	22.5	19.8	21.3
MTOM [kg]	414	550	550	549	588	638	635
Drawing number	1038/010	1034	1056	1075	1076	1020	1054
Serial numbers eligible	42-08 & up	56-14 & up	56-15 & up	56-71 & up	60-05 & up	65-19 & up	65-63 & up
Fuel cylinder quantity							
Worthington 4100-U4-27	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more
UM Type M-20 or M-20D	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more
UM Type M-30 or M-30D	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more
UM Type T-25	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more
UM Type M-40 or M-40D	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more
Notes on 6.3	1)*, 2)*	1)*, 2)*	2)*	2)*	2)*	2)*	2)*

Model	M-65Z	M-70Z	M-74Z	M-77	M-77C	M-90	M-105
Approved	11 Jul 2023	11 Jul 2023	26 Jan 2021	25 Mar 1988	30 Apr 2001	4 Mar 1997	10 Jun 1988
Technical Description							
Volume [m ³]	1 840	1 982	2 100	2 200	2 200	2 550	2 950
Number of gores	24	24	24	24	24	24	24
Disposition	horizontal	horizontal	horizontal	horizontal	horizontal	horizontal	horizontal
Max diameter [m]	14.35	14.70	15.0	16.9	15.5	17.4	18.8
Total height [m]	23	23.5	24.0	21.0	24.0	21.6	23.1
MTOM [kg]	636	686	710	756	756	880	1 032
Drawing number	1077	1078	1071	1009	1057	1040	1010
Serial numbers eligible	65-240 & up	70-41 & up	74-01 & up	77-17 & up	77-190 & up	90-15 & up	105-03 & up
Fuel cylinder quantity							
Worthington 4100-U4-27	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more
UM Type M-20 or M-20D	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more
UM Type M-30 or M-30D	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more
UM Type T-25	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more
UM Type M-40 or M-40D	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more
Notes on 6.3	2)*	2)*	2)*	2)*	2)*	2)*	2)*

Model	M-120	M-130	M-145	M-160
Approved	23 Feb 1999	30 Nov 1994	21 Feb 1995	15 Oct 1987
Technical Description				
Volume [m ³]	3 400	3 680	4 105	4 550
Number of gores	24	24	24	24
Disposition	horizontal	horizontal	horizontal	horizontal
Max diameter [m]	19.2	20.2	20.4	21.6
Total height [m]	23.4	24.6	24.7	26.3
MTOM [kg]	1 173	1 365	1 436	1 569
Drawing number	1055	1021	1036	1011
Serial numbers eligible	120-01 & up	130-05 & up	145-01 & up	160-01 & up
Fuel cylinder quantity				
Worthington 4100-U4-27	2 or more	2 or more	2 or more	2 or more
UM Type M-20 or M-20D	2 or more	2 or more	2 or more	2 or more
UM Type M-30 or M-30D	2 or more	2 or more	2 or more	2 or more
UM Type T-25	2 or more	2 or more	2 or more	2 or more
UM Type M-40 or M-40D	2 or more	2 or more	2 or more	2 or more
Notes on 6.3	2)*	2)*		

Envelope Options: Scoop or skirt. Rotation vents (see Note 8). Artwork banners.

Envelope Temperature: 1) Not exceed by any concept 130°C
2) Max. continuous temperature 120°C

Burner: See § 6.2 : Burners and Baskets for M models

Basket: See § 6.2 : Burners and Baskets for M models

Maximum Weight: That one permitting the flight with the continuous temperature lower than 120°C, or according to the basket/equipment used based on § 6.2, whatever is less.
See Load Chart in Flight Manual Chap. 5.

6.2. Burners and Baskets for M models

BURNER									
Model	MK-2 / SUPER			MK-10			MK-21		
Units	single	double	triple	single	double	triple	single	double	triple
Drawing	2003/2005	2002/2006	2004/2007	2011	2012	2013	2021	2022	2023
M-42	----	----	----	X	----	----	X	----	----
M-56	X	X	----	X	X	----	X	X	----
M-56C	X	X	----	X	X	----	X	X	----
M-65	X	X	----	X	X	----	X	X	----
M-65C	X	X	----	X	X	----	X	X	----
M-74Z	----	----	----	----	X	----	X	X	----
M-77	X	X	----	X	X	----	X	X	----
M-77C	X	X	----	X	X	----	X	X	----
M-90	----	X	----	----	X	----	X	X	----
M-105	----	X	X	----	X	X	X	X	X
M-120	----	X	X	----	X	X	----	X	X
M-130	----	X	X	----	X	X	----	X	X
M-145	----	X	X	----	X	X	----	X	X
M-160	----	X	X	----	X	X	----	X	X

BURNER (contd.)					
Model	MK-21 / ELEC	BMK-008		MK-32	
Drawing	2022/0100-0000-0200	2031	2032	double	triple
M-42	----	X	----	----	----
M-56	X	X	X	X	----
M-56C	X	X	X	X	----
M-65	X	X	X	X	----
M-65C	X	X	X	X	----
M-74Z	X	X	X	X	----
M-77	X	X	X	X	----
M-77C	X	X	X	X	----
M-90		X	X	X	----
M-105	X	X	X	X	----
M-120	X	X	X	X	X
M-130	X	----	X	X	X
M-145	X	----	X	X	X
M-160	X	----	X	X	X

BASKET (Compatibility and maximum mass [kg])										
Model	C0	CT-01 see Sec. 11, Notes 3), 5)	CT-02 see Sec. 11, Notes 4), 5)	CT-03 see Sec. 11, Notes 4), 5)	C1	C2	C3	C4	C5	C6
Size [m]	0.7x0.8	0.8x1.0	1.0x1.2	0.8x1.2	1.0x1.2	1.0x1.0	1.1x1.3	1.2x1.6	1.4x2.2	1.3x1.8
Drawing	3000	3200	3202	3203	3001	3002	3003	3004	3005	3006
M-42	382	414	414	414	414	414	----	----	----	----
M-56	399	527	550	550	550	550	----	----	----	----
M-56C	399	531	550	550	550	550	----	----	----	----
M-65	----	537	638	585	638	638	638	638	----	----
M-65C	----	541	635	589	638	638	638	638	----	----
M-74Z	----	566	710	618	710	710	710	710	----	----
M-77	----	539	756	587	756	756	756	756	----	----
M-77C	----	545	756	593	756	756	756	756	----	----
M-90	----	----	772	597	878	878	878	878	----	----
M-105	----	----	784	609	1 032	----	1 032	1 032	----	----
M-120	----	----	794	619	1 173	----	1 173	1 173	1 173	1 173
M-130	----	----	807	632	1 235	----	1 365	1 365	1 365	1 321
M-145	----	----	----	----	----	----	1 436	1 436	1 436	1 333
M-160	----	----	----	----	----	----	1 569	1 569	1 569	1 346

BASKET					BOTTOM END	
Model	C7	CV-06 see Sec. 11, Note 6), 9)	CV-08 see Sec. 11, Note 6)	C10	SOLO see Sec. 11 Notes 7)	DUO see Sec. 11 Note 7)
Size	1.4x2.0	1.5x1.7	1.5x2.6	1.15x1.45	----	-----
Drawing	3007	3106	3108	3010	5001	5002
M-42	----	----	----	----	300	400
M-56	----	----	----	----	----	450
M-56C	----	----	----	----	----	----
M-65	----	----	----	638	----	----
M-65C	----	----	----	638	----	----
M-74Z	----	----	----	710	----	----
M-77	----	----	----	756	----	----
M-77C	----	----	----	756	----	----
M-90	----	880	----	878	----	----
M-105	----	1 032	1 032	1 032	----	----
M-120	1 173	1 173	1 173	1 173	----	----
M-130	1 365	1 365	1 365	1 205	----	----
M-145	1 311	1 436	1 436	1 227	----	----
M-160	1 569	1 482	1 569	1 240	----	----
* Compatibility and maximum mass [kg]						

6.3. Notes

1) *

Fuel cylinder quantity	M-42	M-56
With DUO	2	2
With SOLO	1	----
For all approved cylinders		

2)* (moved – see Sec. 11, Notes 3), 4), 5))

SECTION 7 : SERIES N

Former DGAC Spain Type Certificate Data Sheet reference: 61

7.1. General

Model	N-180	N-210	N-250	N-300	N-355	N-370	N-425
Approved	26 Sep 1991	31 Oct 1991	22 Jun 1992	30 Apr 1998	10 Jun 1997	25 Oct 2022	30 Apr 2001
Technical Description							
Volume [m ³]	5 100	6 000	7 000	8 500	10 000	10 480	12 000
Number of gores	28	28	28	28	28	28	28
Disposition	horizontal	horizontal	horizontal	horizontal	horizontal	horizontal	horizontal
Max diameter [m]	22.5	23.8	24.9	26.6	27.5	28.2	29.5
Total height [m]	27.3	28.9	30.3	32.4	33.3	33.2	35.5
MTOM [kg]	1 754	2 064	2 408	2 924	3 450	3 450	4 140
Drawing number	1031	1032	1033	1034	1053	1074	1058
Serial numbers eligible	180-01 & up	210-01 & up	250-01 & up	300-01 & up	355-01 & up	370-01 & up	425-01 & up
Fuel cylinder quantity							
Worthington 4100-U4-27	2 or more	2 or more	3 or more	3 or more	4 or more	4 or more	4 or more
UM Type M-20 or M-20D	2 or more	2 or more	3 or more	3 or more	4 or more	4 or more	4 or more
UM Type M-30 or M-30D	2 or more	2 or more	3 or more	3 or more	4 or more	4 or more	4 or more
UM Type T-25	2 or more	2 or more	3 or more	3 or more	4 or more	4 or more	4 or more
UM Type M-40 or M-40D	2 or more	2 or more	3 or more	3 or more	4 or more	4 or more	4 or more

Model	N-450	N-500
Approved	25 Jun 2019	16 Jun 2009
Technical Description		
Volume [m ³]	12 750	14 415
Number of gores	28	32
Disposition	horizontal	horizontal
Max diameter [m]	30.0	31.1
Total height [m]	35.2	36.2
MTOM [kg]	4 140	5 000
Drawing number	1070	1061
Serial numbers eligible	450-01 & up	500-01 & up
Fuel cylinder quantity		
Worthington 4100-U4-27	4 or more	4 or more
UM Type M-20 or M-20D	4 or more	4 or more
UM Type M-30 or M-30D	4 or more	4 or more
UM Type T-25	4 or more	4 or more
UM Type M-40 or M-40D	4 or more	4 or more

Envelope Options: Scoop or skirt. Rotation vents. Artwork banners.**Envelope Temperature:** 1) Not exceed by any concept 130°C
2) Max. continuous temperature 120°C**Burner:** See § 7.2 : Burners and Baskets for N models**Basket:** See § 7.2 : Burners and Baskets for N models**Maximum Weight:** That one permitting the flight with the continuous temperature lower than 120°C, or according to the basket/equipment used based on § 7.2, whatever is less.
See Load Chart in Flight Manual Chap. 5.

7.2. Burners and Baskets for N models

BURNER									
Model	MK-2 / SUPER		MK-10			MK-21			MK-21 / ELEC
Units	triple	quad	double	triple	quad	double	triple	quad	option
Drawing	2004/2007	2005/2008	2012	2013	2014	2022	2023	2024	2022/0100-0000-0200
N-180	X	X	X	X	X	X	X	X	X
N-210	X	X	----	X	X	X	X	X	X
N-250	----	X	----	----	X	----	X	X	X
N-300	----	X	----	----	X	----	X	X	X
N-355	----	X	----	----	X	----	----	X	X
N-370	----	----	----	----	----	----	----	X	----
N-425	----	X	----	----	X	----	----	X	X
N-450	----	----	----	----	----	----	----	X	X
N-500	----	----	----	----	----	----	----	X	X

BURNER (contd.)							
Model	BMK-008	BMK-050			MK-32		
Units	double	double	triple	quad	double	triple	quad
Drawing	2032	2052	2053	2054	2062	2063	2064
N-180	X	X	----	----	X	X	X
N-210	X	X	----	----	X	X	X
N-250	----	X	X	----	----	X	X
N-300	----	X	X	----	----	X	X
N-355	----	----	X	X	----	----	X
N-370	----	----	X	X	----	----	X
N-425	----	----	X	X	----	----	X
N-450	----	----	X	X	----	----	X
N-500	----	----	----	X	----	----	X

BASKET										
Model	C5	C6	C7	C8	CV-06 see Sec. 11, Note 6), 9)	CV-08 see Sec. 11, Note 6)	C9	C11	C12 see Sec. 11, Note 9)	C14
Size [m]	1.4x2.2	1.3x1.8	1.4x2.0	1.5x2.6	1.5x1.7	1.5x2.6	1.6x3.0	1.7x3.5	1.7x4.5	1.7x5.2
Drawing	3005	3006	3007	3008	3106	3108	3009	3011	3012	3014
N-180	1 745	1 368	1 607	1 754	1 509	1 672	1 754	----	----	----
N-210	1 936	----	1 632	2 064	----	1 690	2 064	2 064	----	----
N-250	1 959	----	----	2 199	----	----	2 408	2 408	----	----
N-300	1 986	----	----	2 226	----	----	2 680	2 924	2 924	----
N-355	2 010	----	----	2 250	----	----	2 704	3 216	3 450	----
N-370	2 130	----	----	2 338	----	----	2 862	3 405	3 450	----
N-425	2 010	----	----	2 250	----	----	2 814	3 332	3 712	4 140
N-450	2 182	----	----	2 435	----	----	2 914	3 457	3 878	4 140
N-500	----	----	----	----	----	----	----	----	3 813	5 000
* Compatibility and maximum mass in [kg]										

SECTION 8 : SERIES Z

Former DGAC Spain Type Certificate Data Sheet reference: 147

8.1. General

Model	Z-90
Approved	23 Jan 1996
Technical Description	
Volume [m ³]	2 550
Number of gores	16
Disposition	diagonal
Max diameter [m]	18.2
Total height [m]	22.7
MTOM [kg]	894
Drawing number	1025
Serial numbers eligible	90-14 & up
Fuel cylinder quantity	
Worthington 4100-U4-27	2 or more
UM Type M-20 or M-20D	2 or more
UM Type M-30 or M-30D	2 or more
UM Type T-25	2 or more
UM Type M-40 or M-40D	2 or more

Envelope Options: Scoop or skirt. Rotation vents. Artwork banners.**Envelope Temperature:** 1) Not exceed by any concept 130°C
2) Max. continuous temperature 120°C**Burner:** See § 8.2 : Burners and Baskets for Z models**Basket:** See § 8.2 : Burners and Baskets for Z models**Maximum Weight:** That one permitting the flight with the continuous temperature lower than 120°C, or according to the basket/equipment used based on § 8.2, whatever is less.
See Load Chart in Flight Manual Chap. 5.**8.2. Burners and Baskets for Z model**

BURNER							
Model	MK-2 / SUPER	MK-10	MK-21		MK-21 / ELEC	BMK-008	
Units	double	double	single	double	option	single	double
Drawing	2002/2006	2012	2021	2022	2022/0100-0000-0200	2031	2032
Z-90	X	X	X	X	X	X	X

BURNER (Contd.)	
Model	MK-32
Units	double
Drawing	2062
Z-90	X

BASKET								
Model	C1	CT-02 see Sec. 11, Notes 4), 5)	CT-03 see Sec. 11, Notes 4), 5)	C2	C3	C4	C10	CV-06 see Sec. 11, Note 6), 9)
Size [m]	1.0x1.2	1.0x1.2	0.8x1.2	1.0x1.0	1.1x1.3	1.2x1.6	1.15x1.45	1.5x1.7
Drawing	3001	3202	3203	3002	3003	3004	3010	3106
Z-90	878	768	593	878	878	878	878	894
* Compatibility and maximum mass in [kg]								

SECTION 9 : SERIES B**9.1. General**

Model	B-26	B-40	B-50	B-55	B-60	B-70
Approved	08 Oct 2020	03 Sep 2018	03 Sep 2018	03 Sep 2018	03 Sep 2018	20 Dec 2013
Technical Description						
Volume [m ³]	735	1 143	1 428	1 549	1 715	1 982
Number of gores	12	12	12	12	12	12
Disposition	horizontal	horizontal	horizontal	horizontal	horizontal	horizontal
Max diameter [m]	11.1	12.3	13.9	14.2	14.8	15.6
Total height [m]	16.2	18.5	19.8	20.1	20.9	21.8
MTOM [kg]	330	375	450	500	525	600
Drawing number	1072	1068	1067	1069	1066	1064
Serial numbers eligible	26-01 & up	40-01 & up	50-18 & up	55-01 & up	60-01 & up	70-05 & up
Fuel cylinder quantity						
Worthington 4100-U4-27	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more
UM Type M-20 or M-20D	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more
UM Type M-30 or M-30D	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more
UM Type T-25	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more
UM Type M-40 or M-40D	2 or more	2 or more	2 or more	2 or more	2 or more	2 or more
Notes on 9.3	1)*	1)*	1)*	1)*	1)*	1)*

Envelope Options: Scoop or skirt. Rotation vents (see Note 8). Artwork banners.

Envelope Temperature: 1) Not exceed by any concept 130°C
2) Max. continuous temperature 120°C

Burner: See § 9.2 : Burners and Baskets for B models

Basket: See § 9.2 : Burners and Baskets for B models

Maximum Weight: That one permitting the flight with the continuous temperature lower than 120°C, or according to the basket/equipment used based on § 9.2, whatever is less.
See Load Chart in Flight Manual Chap. 5.

9.2. Burners and Baskets for B model

BURNER					
Model	MK-21		BMK-008		MK-32
Units	single	double	single	double	double
Drawing	2021	2022	2031	2032	2062
B-26	X	----	X	----	----
B-40	X	----	X	----	----
B-50	X	----	X	----	----
B-55	X	X	X	X	X
B-60	X	X	X	X	X
B-70	X	X	X	X	X

BASKET									
Model	CT-01 see Sec. 11, Notes 3), 5)	CT-02 see Sec. 11, Notes 4), 5)	CT-03 see Sec. 11, Notes 4), 5)	C0	C1	C2	C3	C10	DUO see Sec. 11 Note 7)
Size [m]	0.8x1.0	1.0x1.2	0.8x1.2	0.7x0.8	1.0x1.2	1.0x1.0	1.1x1.3	1.15x1.45	-----
Drawing	3200	3202	3203	3000	3001	3002	3003	3010	5002
B-26	330	----	----	330	----	----	----	----	----
B-40	375	----	375	361	----	375	----	----	375
B-50	450	450	450	366	450	450	----	----	419
B-55	491	500	500	368	500	500	----	----	421
B-60	493	525	525	370	525	525	----	----	423
B-70	498	600	550	375	600	600	600	600	428
* Compatibility and maximum mass in [kg]									

BASKET	
Model	SOLO see Sec. 11 Note 7)
Size [m]	-----
Drawing	5001
B-26	284
B-40	300
B-50	----
B-55	----
B-60	----
B-70	----
* Compatibility and maximum mass in [kg]	

9.3 Notes

1) *

Fuel cylinder quantity	B-26	B-40	B-50	B-55	B-60	B-70
With SOLO	1	1	----	----	----	----
With DUO	----	2	2	2	2	2
For all approved cylinders per Note 5						

SECTION 10 : SERIES G**10.1. General**

Model	G-90
Approved	23/10/2015
Technical Description	
Volume [m ³]	2550
Number of gores	8
Disposition	horizontal
Max diameter [m]	18.3
Total height [m]	21.1
MTOM [kg]	878
Drawing number	1065
Serial numbers eligible	90-139 & up
Fuel cylinder quantity	
Worthington 4100-U4-27	2 or more
UM Type M-20 or M-20D	2 or more
UM Type M-30 or M-30D	2 or more
UM Type T-25	2 or more
UM Type M-40 or M-40D	2 or more

Envelope Options: Scoop or skirt. Rotation vents. Artwork banners.

Envelope Temperature: 1) Not exceed by any concept 130°C
2) Max. continuous temperature 120°C

Burner: See § 10.2 : Burners and Baskets for G models

Basket: See § 10.2 : Burners and Baskets for G models

Maximum Weight: That one permitting the flight with the continuous temperature lower than 120°C, or according to the basket/equipment used based on § 10.2, whatever is less.
See Load Chart in Flight Manual Chap. 5.

10.2. Burners and Baskets for G model

BURNER						
Model	MK-10	MK-21		BMK-008		MK-32
Units	double	single	double	single	double	double
Drawing	2012	2021	2022	2031	2032	2062
G-90	X	X	X	X	X	X

BASKET								
Model	CT-02 see Sec. 11, Notes 4), 5)	CT-03 see Sec. 11, Notes 4), 5)	C1	C2	C3	C4	C10	CV-06 see Sec. 11, Note 6), 9)
Size [m]	1.0x1.2	0.8x1.2	1.0x1.2	1.0x1.0	1.1x1.3	1.2x1.6	1.15x1.45	1.5x1.7
Drawing	3202	3203	3001	3002	3003	3004	3010	3106
G-90	835	662	878	878	878	878	878	878
* Compatibility and maximum mass in [kg]								

SECTION 11 : NOTES

Note 1	The system FDS of deflation can be installed optionally according to drawings 1031/72, 1031/75 and 1031/76 in all models.
Note 2	Data Sheets corresponding to former DGAC-ES TCs have been modified to include: - Optional Electric Burner MK-21 - Models SOLO and DUO, chair type gondola - New format of Data Sheet - Comprising exclusively standard envelope shapes
Note 3	Additional compatibility information: Basket CT-01 is approved for flight using the following burners: - MK-21 Single (or MK-21/ELEC single) - BMK-008 Single
Note 4	Additional compatibility information: Baskets CT-02 and CT-03 are approved for flight using the following burners: - MK-21 Single - MK-21 Double - BMK-008 Single - BMK-008 Double - MK-32 Double
Note 5	Additional compatibility information: Baskets CT-01, CT-02 and CT-03 are approved for flight using external mounting of fuel cylinders with one of these fuel cylinders combinations (see Flight Manual Supplement No. 39, Issue 4 or later approved revision): two Worthington 4100-U4-27, two UM Type M-20/M-20D, two UM Type M-30/M-30D, four Worthington 4100-U4-27, four UM Type M-20/M-20D, four UM Type M-30/M-30D, two Worthington 4100-U4-27 plus two UM Type M-20/M-20D, two Worthington 4100-U4-27 plus two UM Type M-30/M-30D, two UM Type M-20/M-20D plus two UM Type M-30/M-30D.
Note 6	Additional compatibility information: Basket CV-08 is approved for flight using the following burners: - MK-10 Double - MK-10 Triple - MK-21 Double - MK-21 Triple - BMK-008 Double - BMK-050 Double - BMK-050 Triple - MK-32 Double - MK-32 Triple
Note 7	Additional compatibility information: SOLO and DUO bottom ends are also approved for flight using the following burner: - BMK-008 Single
Note 8	Rotation vents become mandatory on envelopes combined with the SOLO or DUO Bottom ends.
Note 9	Basket size subject to dimensional tolerances as per design project.

* * *

ADMINISTRATIVE SECTION**Acronyms and Abbreviations**

CRI:	Certification Review Item
CS:	Certification Specification
CAA	UK Civil Aviation Authority
EASA:	European Union Aviation Safety Agency
ESF:	Equivalent Safety Finding
SC:	Special Condition
S/N:	Serial Number
TCDS:	Type Certificate Data Sheet

Type Certificate Holder Record

TCH Record	Period
Ultramagic, S.A. Aerodrom Igualada-Odena s/n 08711 Odena Spain	Current

Amendment Record

TCDS Issue No.	TCDS Issue Date	Changes	TC Issue and Date
1	13 October 2023	Initial issue, replacing EASA.BA.014 Issue 27. Section 3, Series S updated. Section 4, Series T updated. Section 5, Series V updated. Section 6, Series M updated. Section 7, Series N updated. Section 8, Series Z updated. Section 10, Series G updated. Section 11, Notes updated. Sections above updated based on Introduction of New Envelopes ref N-370, M-56Z, M-60Z, M-65Z M-70Z and M-74Z along with Basket CV-06, as accepted by CAA based on the EU/UK Bilateral and TIP. CAA project reference UK.ADMIN.00128.	Initial Issue, 13 Oct 2023

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