

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

A10NM
Revision 13
Sidney Conn (Galaxy Balloons)
Newport
Galaxy-7
Galaxy-8
Galaxy-9
Galaxy 6
Galaxy 7B
Galaxy 8B
Galaxy 9B
Galaxy 10
Galaxy 11
Galaxy 11B
Galaxy 77

July 31, 2000

TYPE CERTIFICATE DATA SHEET NO. A10NM

This data sheet, which is a part of Type Certificate A10NM, prescribes conditions and limitations under which the product for which the Type Certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

TYPE CERTIFICATE HOLDER: Sidney Conn
281 Catalina Drive
Mooresville, North Carolina 28117

I. Model Newport, Hot Air Balloon, Approved July 7, 1982

Air Heater	General Balloon, Burner Assembly Dwg. No. 8201
Gondola	General Balloon, Basket Assembly Dwg. No. 8501
Fuel Propane (LPG) only	
Maximum Weight	Gross weight limited to 1680 lbs; or to weight limited by maximum continuous envelope temperature of 250 degrees F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 300 degrees F. 2. For no longer than 10 minutes continuous, or 10 minutes per two hours of flight: 250 to 300 degrees F. 3. Maximum continuous: 250 degrees F.
Fuel Capacity	One, two, three or four ten-gallon Worthington 43.4 lb aluminum LPG cylinders, Model 4100-U4-15, or Manchester 43 lb steel LPG cylinders, Model FL-519.
Serial Nos. Eligible	8007 and subsequent.

Page No.	1	2	3	4	5	6	7	8	9
Rev. No.	13	12	12	12	12	13	13	13	13

II. Model Galaxy-7, Hot Air Balloon, Approved May 15, 1986

Air Heater	Galaxy Balloons Burner Assembly Dwg. No. A1G400 (Balloon Works Model T3-017) or Galaxy Balloons Burner Assembly Dwg. No. A1G401 (Balloon Works Model F1 Mirage). (See Note 6)
Gondola	Galaxy Balloons Carriage Models 4048 or 4860.
Fuel Propane (LPG) only	
Maximum Weight	1680 pounds (this weight includes the envelope weight)
Maximum Allowable Envelope Temperature	300 degrees F.
Fuel Capacity	See Note 7
Serial Nos. Eligible	C1017, GLX-1027 and subsequent.

III. Model Galaxy-8, Hot Air Balloon, Approved May 22, 1989

Air Heater	Galaxy Balloons Burner Assembly Dwg. No. A1G400 (Balloon Works Model T3-017) or Galaxy Balloons Burner Assembly Dwg. No. A1G401 (Balloon Works Model F1 Mirage). Two required. (See Note 6)
Gondola	Galaxy Balloons Carriage Models 4860DB, 6072, or 6072T or TBW Carriage Models 3.9, 4.0, 4.5, 4.9, 4.9DB, S5.0, S5.0DB, 5.0, 5.0DB, 5.9, or 6.0.
Fuel Propane (LPG) only	
Maximum Weight	2400 pounds (this weight includes the envelope weight)
Minimum Weight	1000 pounds
Maximum Allowable Envelope Temperature	300 degrees F.
Fuel Capacity	See Note 7
Serial Nos. Eligible	GLX-1018 and subsequent.

IV. Model Galaxy-9, Hot Air Balloon, Approved Nov 18, 1988

Air Heater	Galaxy Balloons Burner Assembly Dwg. No. A1G400 (Balloon Works Model T3-017) or Galaxy Balloons Burner Assembly Dwg. No. A1G401 (Balloon Works Model F1 Mirage). Two required. (See Note 6)
Gondola	Galaxy Balloons Carriage Models 6072, 6072T, or 6096 or TBW Carriage Models 4.9DB, S5.0DB, 5.0DB, 5.9, or 6.0.
Fuel Propane (LPG) only	
Maximum Weight	3000 pounds (this weight includes the envelope weight)

Minimum Weight	1000 pounds
Maximum Allowable Envelope Temperature	300 degrees F.
Fuel Capacity	See Note 7
Serial Nos. Eligible	9001 and subsequent.

V. Model Galaxy 6, Hot Air Balloon, Approved June 11, 1993

Air Heater	Galaxy Balloons Burner Assembly Dwg. No. A1G400 (Balloon Works Model T3-017) or Galaxy Balloons Burner Assembly Dwg. No. A1G401 (Balloon Works Model F1 Mirage). (See Note 6)
Gondola	Galaxy Balloons Carriage Models 4048 or 4860 or TBW Carriage Models 3.9, 4.0, 4.5, 4.9, S5.0, or 5.0.
Fuel Propane (LPG) only	
Maximum Weight	1200 pounds (this weight includes the envelope weight)
Maximum Allowable Envelope Temperature	300 degrees F.
Fuel Capacity	See Note 7
Serial Nos. Eligible	GLX 1016 and subsequent.

VI. Model Galaxy 7B, Hot Air Balloon, Approved June 11, 1993

Air Heater	Galaxy Balloons Burner Assembly Dwg. No. A1G400 (Balloon Works Model T3-017) or Galaxy Balloons Burner Assembly Dwg. No. A1G401 (Balloon Works Model F1 Mirage). (See Note 6)
Gondola	Galaxy Balloons Carriage Models 4048 or 4860 or TBW Carriage Models 3.9, 4.0, 4.5, 4.9, S5.0, or 5.0.
Fuel Propane (LPG) only	
Maximum Weight	1300 pounds (this weight includes the envelope weight)
Maximum Allowable Envelope Temperature	300 degrees F.
Fuel Capacity	See Note 7
Serial Nos. Eligible	GLX 1017B and subsequent.

VII. Model Galaxy 8B, Hot Air Balloon, Approved June 11, 1993

Air Heater	Galaxy Balloons Burner Assembly Dwg. No. A1G400 (Balloon Works Model T3-017) or Galaxy Balloons Burner Assembly Dwg. No. A1G401 (Balloon Works Model F1 Mirage). One or two allowed. (See Note 6)
Gondola	Galaxy Balloons Carriage Models 4860 or 4860DB or TBW Carriage Models 3.9, 4.0, 4.5, 4.9, 4.9DB, S5.0, S5.0DB, 5.0, 5.0DB, 5.9, or 6.0.
Fuel Propane (LPG) only	
Maximum Weight	1900 pounds (this weight includes the envelope weight)
Maximum Allowable Envelope Temperature	300 degrees F.
Fuel Capacity	See Note 7
Serial Nos. Eligible	GLX 1018B and subsequent.

VIII. Model Galaxy 9B, Hot Air Balloon, Approved June 11, 1993

Air Heater	Galaxy Balloons Burner Assembly Dwg. No. A1G400 (Balloon Works Model T3-017) or Galaxy Balloons Burner Assembly Dwg. No. A1G401 (Balloon Works Model F1 Mirage). Two required. (See Note 6)
Gondola	Galaxy Balloons Carriage Model 6072 or 6072T or TBW Carriage Models 4.9DB, S5.0DB, 5.0DB, 5.9, or 6.0.
Fuel Propane (LPG) only	
Maximum Weight	2800 pounds (this weight includes the envelope weight)
Minimum Weight	1400 pounds
Maximum Allowable Envelope Temperature	300 degrees F.
Fuel Capacity	See Note 7
Serial Nos. Eligible	GLX 1019B and subsequent.

IX. Model Galaxy 10, Hot Air Balloon, Approved June 11, 1993

Air Heater	Galaxy Balloons Burner Assembly Dwg. No. A1G400 (Balloon Works Model T3-017) or Galaxy Balloons Burner Assembly Dwg. No. A1G401 (Balloon Works Model F1 Mirage). Two required. (See Note 6)
Gondola	Galaxy Balloons Carriage Models 6072, 6072T, 6096, or 60120 or TBW Carriage Models 5.0DB, 5.9, or 6.0.
Fuel Propane (LPG) only	

Maximum Weight	3600 pounds (this weight includes the envelope weight)
Minimum Weight	1400 pounds
Maximum Allowable Envelope Temperature	300 degrees F.
Fuel Capacity	See Note 7
Serial Nos. Eligible	GLX 10110 and subsequent.

X. Model Galaxy 11, Hot Air Balloon, Approved June 15, 1994

Air Heater	Galaxy Balloons Burner Assembly Dwg. No. A1G401 (Balloon Works Model F1 Mirage). Two required.
Gondola	Galaxy Balloons Carriage Models 6072, 6072T, 6096, or 60120 or TBW Carriage Models 5.0DB, 5.9, or 6.0.
Fuel Propane (LPG) only	
Maximum Weight	3940 pounds (this weight includes the envelope weight)
Minimum Weight	2300 pounds
Maximum Allowable Envelope Temperature	300 degrees F.
Fuel Capacity	See Note 7
Serial Nos. Eligible	GLX 10111 and subsequent.

XI. Model Galaxy 11B, Hot Air Balloon, Approved May 14, 1999

Air Heater	Galaxy Balloons Burner Assembly Dwg. No. A1G400 (Balloon Works Model T3-017) or Galaxy Balloons Burner Assembly Dwg. No. A1G401 (Balloon Works Model F1 Mirage). (Two required)(See Note 6)
Gondola	Galaxy Balloons Carriage Models 6072, 6072T, 6096, or 60120 or TBW Carriage Models 5.0DB, 5.9, or 6.0.
Fuel Propane (LPG) only	
Maximum Weight	3600 pounds (This weight includes the envelope weight)
Minimum Weight	2300 pounds
Maximum Allowable Envelope Temperature	300 degrees F.
Fuel Capacity	See Note 7
Serial Nos. Eligible	GLX 1011B and subsequent.

XII. Model Galaxy 77, Hot Air Balloon, Approved July 31, 2000

Air Heater	Galaxy Balloons Burner Assembly Dwg. No. A1G400 (Balloon Works Model T3-017) or Galaxy Balloons Burner Assembly Dwg. No. A1G401 (Balloon Works Model F1 Mirage). (See Note 6)
Gondola	Galaxy Balloons Carriage Models 4860 or TBW Carriage Models 3.9, 4.0, 4.5, 4.9, S5.0, or 5.0.
Fuel	Propane (LPG) only
Maximum Weight	1750 pounds (This weight includes the envelope weight)
Maximum Allowable Envelope Temperature	300 degrees F.
Fuel Capacity	See Note 7
Serial Nos. Eligible	GLX 10177 and subsequent.

DATA PERTINENT TO ALL MODELS

Certification Basis	FAR 31, effective July 1, 1964. Amendments 31-1 through 31-3. Application for Type Certificate dated June 6, 1978. Type Certificate No. A10NM issued July 7, 1982; reissued September 9, 1983; reissued July 19, 1985; amended May 15, 1986; November 18, 1988; May 22, 1989; September 1, 1989; July 20, 1992; reissued and amended June 11, 1993; amended June 15, 1994; amended December 31, 1997; amended May 14, 1999.
Production Basis	Model Newport: None. Prior to original certification of each balloon manufactured under this Type Certificate, an FAA representative must perform a detailed inspection for workmanship, materials and conformity with this approved technical data and a check of the flight characteristics.
	Models Galaxy-7, Galaxy-8, Galaxy-9, Galaxy 6, Galaxy 7B, Galaxy 8B, Galaxy 9B, Galaxy 10, Galaxy 11, and Galaxy 11B: Production Certificate No. PC325CE, issued September 19, 1986.
Export Eligibility	Balloon will be eligible for issuance of an Export Certificate of Airworthiness subject to compliance with Federal Aviation Regulation Part 21, Subpart L, Sections 21.321 through 21.339. The applicable procedures are contained in Advisory Circular No. 21-2F.
Equipment	The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification. In addition, the following equipment must be installed: <ul style="list-style-type: none"> A. Newport: <ul style="list-style-type: none"> 1. General Balloon FAA approved Equipment List No. 2000 dated July 7, 1982. 2. General Balloon FAA approved Flight Manual dated June 28, 1982. B. Galaxy-7: FAA approved Balloon Flight Manual dated May 15, 1986. C. Galaxy-8: FAA approved Balloon Flight Manual dated May 22, 1989. D. Galaxy-9: FAA approved Balloon Flight Manual dated Nov 18, 1988. E. Galaxy 6: FAA approved Balloon Flight Manual dated June 11, 1993. F. Galaxy 7B: FAA approved Balloon Flight Manual dated June 11, 1993. G. Galaxy 8B: FAA approved Balloon Flight Manual dated June 11, 1993. H. Galaxy 9B: FAA approved Balloon Flight Manual dated June 11, 1993. I. Galaxy 10: FAA approved Balloon Flight Manual dated June 11, 1993.

J. Galaxy 11: FAA approved Balloon Flight Manual dated June 15, 1994.

K. Galaxy 11B: FAA approved Balloon Flight Manual dated May 14, 1999.

L. Galaxy 77: FAA approved Balloon Flight Manual dated July 31, 2000.

Maintenance Inspections Newport: See Piccard Balloon Hot Air Sport Balloon and Maintenance Handbook, Section 3 for Annual and 100-Hour Inspections required by FAR 91.409.

Galaxy-7, Galaxy-8, Galaxy-9, Galaxy 6, Galaxy 7B, Galaxy 8B, Galaxy 9B, Galaxy 10, Galaxy 11, Galaxy 11B and Galaxy 77: See Galaxy Repair and Maintenance Manual.

Note 1. Current weight report, including list of equipment included in certificated empty weight and loading instructions must be provided for each balloon at the time of original certification.

Note 2. Reserved

Note 3. Reserved

- Note 4. A. Prior to shipment of a balloon envelope (and necessary attaching system), produced for use with a burner/basket assembly that is eligible for use with that envelope, the Production Approval holder must determine that the envelope and necessary attaching system conforms to the Type Design and is in a condition for safe operation. A Statement of Conformity, FAA Form 8130.9, may be used for this purpose. This envelope, in combination with the eligible burner/basket assembly may be registered and is eligible for issuance of a Standard Airworthiness Certificate when the applicant shows, and when the Administrator finds, that the envelope, burner and basket combination conforms to the Type Design and is in a condition for safe operation.
- B. Balloon burner/basket assemblies specifically designed for quick removal and installation from one envelope to another may be accomplished by the pilot/owner who holds at least a Private Pilot Certificate. Appropriate entries must be made in the balloon records noting the removal and/or installation of burner/basket assemblies.
- C. Appropriate entries into balloon records of burner/basket assembly removals and installations must be made by FAA-certificated mechanics if the pilot/owner is not eligible to accomplish the task.

Note 5. Inflated appendages on standard shape envelopes are permitted and approved as described in Drawing B1G213, dated May 27, 1993, or latter FAA approved revision. Appendages must meet the same standards for strength as the balloon envelope and must be maintained in accordance with Galaxy Balloons Repair and Maintenance Manual.

Note 6. The Balloon Works Model F1 burner is an approved optional heater for the Models Galaxy-7, Galaxy-8, Galaxy-9, Galaxy 6, Galaxy 7B, Galaxy 8B, Galaxy 9B, Galaxy 10, and Galaxy 11B and these standard shaped balloons with appendages. The Balloon Works F1 burner may be combined with a Balloon Works T3-017 burner in these double burner systems.

Note 7: Fuel Capacity

- A. Galaxy 4048 Basket: One, two or three FAA-approved Galaxy tanks, part numbers C6G001 or B3G661-2 (may be combined in a system) and one FAA approved Galaxy tank, part number C6G003 or B3G661-1.
- B. Galaxy 4860 Basket: One, two, three, four or five FAA approved Galaxy tanks, part numbers C6G001 or B3G661-2 (may be combined in a system) and one FAA approved Galaxy tank, part number C6G003 or B3G661-1.
- C. Galaxy 4860DB Basket: Minimum of four FAA approved tanks of which two must be Galaxy P/N C6G001 or B3G661-2 (may be combined in a system), and two must be TBW P/N C3229 or Galaxy B3G661-1 (may be combined in a system). Up to two additional tanks may be installed and must be Galaxy P/N C6G001 or B3G661-2 (may be combined in a system).
- D. Galaxy 6072 or 6072T Basket:
 - 1) For Galaxy-8 Balloon: Minimum of four FAA approved tanks of which two must be Galaxy P/N C6G001 or B3G661-2 (may be combined in a system), and two must be TBW P/N C3229 or Galaxy B3G661-1 (may be combined in a system). Up to four additional tanks may be installed and must be Galaxy P/N C6G001 or B3G661-2 (may be combined in a system).
 - 2) For all other approved balloon models: Minimum of six FAA approved tanks, four of which must be Galaxy P/N C6G001 or B3G661-2 (may be combined in a system) and two of which must be TBW P/N C3229 or Galaxy B3G661-1 (may be combined in a system). Up to two additional tanks may be installed and must be Galaxy P/N C6G001 or B3G661-2 (may be combined in a system).
- E. Galaxy 6096 or 60120 Basket: Minimum of six FAA approved tanks, four of which must be Galaxy P/N C6G001 or B3G661-2 (may be combined in a system) and two of which must be Galaxy TBW P/N C3229 or Galaxy B3G661-1 (may be combined in a system). Up to two additional tanks may be installed and must be Galaxy P/N C6G001 or B3G661-2 (may be combined in a system).
- F. TBW Carriage Models 3.9 and 4.9: One, two, three, or four 10-gallon FAA approved aluminum propane cylinders, TBW P/N 3229, 3035, or 3258. Models 3.9 and 4.0 may alternately contain one or two FAA approved 15 gallon stainless steel propane cylinders, TBW P/N 3661-2 installed in corners 2 or 3 only.
- G. TBW Carriage Models 4.0 and 4.5: One, two, or three 10-gallon FAA approved aluminum propane cylinders, TBW P/N 3229, 3035, or 3258. Models 4.0 and 4.5 may alternately contain one, two or three FAA approved 15 gallon stainless steel propane cylinders, TBW P/N 3661-1 and 3661-2.
- H. TBW Carriage Models 5.0 and S5.0: One, two, three, four, five, or six 10-gallon FAA approved aluminum propane cylinders, TBW P/N 3229, 3035, or 3058.
- I. TBW Carriage Model 4.9DB (two burners installed): Two, three, or four FAA approved propane cylinders. Model 4.9DB must carry two tanks of TBW P/N 3229 installed in corner No. 1, and may carry up to two additional tanks of TBW P/N 3035 or 3661-2.
- J. TBW Carriage Models 5.0DB and S5.0DB (two burners installed): Six FAA approved 10-gallon tanks, of which two must be TBW P/N 3229 and four of TBW P/N 3035.
- K. TBW Carriage Model 5.9: Six or seven FAA approved aluminum propane cylinders of which two must be TBW P/N 3229 and five TBW P/N 3035.

- L. TBW Carriage Model 6.0: Seven, eight, or nine FAA approved aluminum propane cylinders of which two must be TBW P/N 3229 and five TBW P/N 3035.

Note 8

Some TBW Carriage Model numbers contain the suffix "A1." The TBW Carriage Models 3.9, 4.0, 4.5, 4.9, S5.0, and 5.0 are identical to the TBW Carriage Models 3.9A1, 4.0A1, 4.5A1, 4.9A1, S5.0A1, and 5.0A1 respectively, and may be used interchangeably.

.....END.....