

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

B3EU
Revision 16

Colt Models
Colt 56A Colt 180A
Colt 69A Colt 210A
Colt 77A Colt 240A
Colt 90A Colt 260A
Colt 105A Colt 300A
Colt 120A Colt 315A
Colt 160A

February 2, 2010

TYPE CERTIFICATE DATA SHEET NO. B3EU

This data sheet which is part of Type Certificate No. B3EU prescribes conditions and limitations under which the product for which Type Certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder. Cameron Balloons Ltd.
St. John's Street
Bedminster
Bristol BS3 4NH
United Kingdom

I. Model Colt 56A, 56,000 cu.ft (1,590 cu.m) hot air balloon, approved January 22, 1981.

Air Heater. Colt Mk II
Double Burner (standard)
Single Burner (optional)

Colt Mk III
Double Burner (optional)

Colt Magnum Superseal
Single Burner (optional)
Double Burner (optional)

Thunder and Colt Stratus
Single Burner (optional)
Double Burner (optional)

Basket. 40" x 40" Swept + Flat top
40" x 48" Swept + Flat top
40" x 54" Swept + Flat top

Fuel. Commercial LPG or Propane.

Maximum Weight. 1230 lbs. (See NOTE 1)

Allowable Envelope 127°C (257°F) Never exceed.

Temperature. 120°C (248°F) Maximum continuous.

Fuel Capacity. Minimum two full cylinders for launch.
Maximum - Not to exceed Flight Manual weight limitations (See NOTE 4)

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I. Model Colt 56A (cont.)

<u>Minimum Crew.</u>	1 pilot.
<u>Maximum Occupants.</u>	Not to exceed flight manual load chart limitations (See NOTE 1)
<u>Serial Numbers Eligible.</u>	See "Import Requirements".

II. Model Colt 69A, 69,000 cu.ft (1,950 cu.m), hot air balloon, approved December 29, 1982.

<u>Air Heater.</u>	<u>Colt Mk II</u> Double Burner (standard) Single Burner (optional) <u>Colt Mk III</u> Double Burner (optional) <u>Colt Magnum Superseal</u> Single Burner (optional) Double Burner (optional) <u>Thunder and Colt Stratus</u> Single Burner (optional) Double Burner (optional)
<u>Basket.</u>	40" x 40" Swept + Flat top 40" x 48" Swept + Flat top 40" x 54" Swept + Flat top
<u>Fuel.</u>	Commercial LPG or Propane.
<u>Maximum Weight.</u>	1435 lbs. (See NOTE 1)
<u>Allowable Envelope Temperature.</u>	127°C (257°F) Never exceed. 120°C (248°F) Maximum continuous.
<u>Fuel Capacity.</u>	Minimum two full cylinders for launch. Maximum - Not to exceed Flight Manual weight limitations (See NOTE 4.)
<u>Minimum Crew.</u>	1 pilot.
<u>Maximum Occupants.</u>	Not to exceed flight manual load chart limitations (See NOTE 1).
<u>Serial Numbers Eligible.</u>	See "Import Requirements".

III. Model Colt 77A, 77,000 cu.ft (2,180 cu.m), hot air balloon, approved January 22, 1981.

<u>Air Heater.</u>	<u>Colt Mk II</u> Double Burner (standard) Single Burner (optional) <u>Colt Mk III</u> Double Burner (optional) <u>Colt Magnum Superseal</u> Single Burner (optional) Double Burner (optional)
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III. Model Colt 77A (cont.)Air Heater (cont.)Thunder and Colt Stratus

Single Burner (optional)

Double Burner (optional)

Basket.

40" x 40" Swept + Flat top

40" x 48" Swept + Flat top

40" x 54" Swept + Flat top

40" x 60" Swept + Flat top

Fuel.

Commercial LPG or Propane.

Maximum Weight.

1700 lbs. (See NOTE 1)

Allowable Envelope
Temperature.

127°C (257°F) Never exceed.

120°C (248°F) Maximum continuous.

Fuel Capacity.

Minimum two full cylinders for launch.

Maximum - Not to exceed Flight Manual weight limitations (See NOTE 4).

Minimum Crew.

1 pilot.

Maximum Occupants.

Not to exceed flight manual load chart limitations (See NOTE 1).

Serial Numbers Eligible.

See "Import Requirements".

IV. Model Colt 90A, 90,000 cu.ft (2,550 cu.m), hot air balloon, approved January 10, 1992.Air Heater.Colt Mk II

Double Burner (standard)

Double with Liquid Fire (optional)

Triple Burner (optional)

Colt Mk III

Double Burner (optional)

Double with Liquid Fire (optional)

Triple Burner (optional)

Colt Magnum Superseal

Single Burner (optional)

Double Burner (optional)

Double with UQLF (optional)

Triple Burner (optional)

Thunder and Colt Stratus

Single Burner (optional)

Double Burner (optional)

Basket.

40" x 40" Swept + Flat top

40" x 48" Swept + Flat top

40" x 54" Swept + Flat top

40" x 60" Swept + Flat top

48" x 68" Swept + Flat top

48" x 68" Small + Large Compartment T-Partition

IV. Model Colt 90A, (cont.)

<u>Fuel.</u>	Commercial LPG or Propane.
<u>Maximum Weight.</u>	1971 lbs. (See NOTE 1)
<u>Allowable Envelope Temperature.</u>	127°C (257°F) Never exceed. 120°C (248°F) Maximum continuous.
<u>Fuel Capacity.</u>	Minimum two full cylinders for launch. Maximum - Not to exceed Flight Manual weight limitations (See NOTE 4).
<u>Minimum Crew.</u>	1 pilot.
<u>Maximum Occupants.</u>	Not to exceed flight manual load chart limitations (See NOTE 1).
<u>Serial Numbers Eligible.</u>	See "Import Requirements".

V. Model Colt 105A, 105,000 cu.ft (2,970 cu.m), hot air balloon, approved January 27, 1981.

<u>Air Heater.</u>	<u>Colt Mk II</u> Double Burner (standard) Double with Liquid Fire (optional) Triple Burner (optional) <u>Colt Mk III</u> Double Burner (optional) Double with Liquid Fire (optional) Triple Burner (optional) <u>Colt Magnum Superseal</u> Double Burner (optional) Double with UQLF (optional) Triple Burner (optional) <u>Thunder and Colt Stratus</u> Double Burner (optional) Triple Burner (optional)
<u>Basket.</u>	40" x 54" Swept + Flat top 40" x 60" Swept + Flat top 48" x 48" Swept + Flat top 48" x 68" Swept + Flat top 48" x 68" T-Partition 48" x 82" T-Partition 48" x 87" T-Partition
<u>Fuel.</u>	Commercial LPG or Propane.
<u>Maximum Weight.</u>	2320 lbs. (See NOTE 1)
<u>Allowable Envelope Temperature.</u>	127°C (257°F) Never exceed. 120°C (248°F) Maximum continuous.
<u>Fuel Capacity.</u>	Minimum two full cylinders for launch. Maximum - Not to exceed Flight Manual weight limitations (See NOTE 4).
<u>Minimum Crew.</u>	1 pilot.
<u>Maximum Occupants.</u>	Not to exceed flight manual load chart limitations (See NOTE 1).

V. **Model Colt 105A**, (cont.)

Serial Numbers Eligible. See "Import Requirements".

VI. **Model Colt 120A, 120,000 cu.ft. (3,398 cu.m.), hot air balloon, approved January 10, 1992.**

Air Heater.

Colt Mk II

Double Burner (standard)
Double with Liquid Fire (optional)
Triple Burner (optional)

Colt Mk III

Double Burner (optional)
Double with Liquid Fire (optional)
Triple Burner (optional)

Colt Magnum Superseal

Double Burner (optional)
Double with UQLF (optional)
Triple Burner (optional)

Thunder and Colt Stratus

Double Burner (optional)
Triple Burner (optional)

Basket.

40" x 60" Swept + Flat top
48" x 48" Swept + Flat top
48" x 68" Swept + Flat top
48" x 68" T-Partition
48" x 82" T-Partition
48" x 87" T-Partition

Fuel.

Commercial LPG or Propane.

Maximum Weight.

2646 lbs. (See NOTE 1)

Allowable Envelope
Temperature.

127°C (257°F) Never exceed.
120°C (248°F) Maximum continuous.

Fuel Capacity.

Minimum two full cylinders for launch.
Maximum - Not to exceed Flight Manual weight limitations (See NOTE 4.)

Minimum Crew.

1 pilot.

Maximum Occupants.

Not to exceed Flight Manual load chart limitations (See NOTE 1).

Serial Numbers Eligible.

See "Import Requirements".

VII. **Model Colt 160A, 160,000 cu.ft (4,531 cu.m), hot air balloon, approved June 7, 1984.**

Air Heater.

Colt Mk II

Double Burner (standard)
Double with Liquid Fire (optional)
Triple Burner (optional)
Triple with Liquid Fire (optional)
Quadruple Burner (optional)

VII. Model Colt 160A, (cont.)Air Heater, (cont.)Colt Mk III

Double Burner (optional)
 Double with Liquid Fire (optional)
 Triple Burner (optional)
 Triple Burner Liquid Fire (optional)
 Quadruple Burner (optional)

Colt Magnum Superseal

Double Burner (optional)
 Double with UQLF (optional)
 Triple Burner (optional)
 Triple with UQLF (optional)
 Quadruple Burner (optional)

Thunder and Colt Stratus

Double Burner (optional)
 Triple Burner (optional)
 Quadruple Burner (optional)

Basket.

40" x 60" Swept + Flat top
 48" x 68" Swept + Flat top
 48" x 68" T-Partition
 48" x 82" T-Partition
 48" x 87" T-Partition
 60" x 87" Small + Large Compartment T-Partition
 60" x 102" Small + Large Compartment T-Partition
 60" x 110" Double T-Partition

Fuel.

Commercial LPG or Propane.

Maximum Weight.

3197 lbs. (See NOTE 1)

Allowable Envelope
Temperature.

127°C (257°F) Never exceed.
 120°C (248°F) Maximum continuous.

Fuel Capacity.

Minimum two full cylinders for launch.
 Maximum - Not to exceed Flight Manual weight limitations (See NOTE 4).

Minimum Crew.

1 pilot.

Maximum Occupants.

Not to exceed Flight Manual load chart limitations (See Note 1).

Serial Numbers Eligible.

See "Import Requirements".

VIII. Model Colt 180A, 180,000 cu.ft. (5,098 cu.m), hot air balloon, approved January 10, 1992.Air Heater.Colt Mk II

Double Burner (standard)
 Double with Liquid Fire (optional)
 Triple Burner (optional)
 Triple with Liquid Fire (optional)
 Quadruple Burner (optional)

VIII. Model Colt 180A, (cont.)Air Heater, (cont.)Colt Mk III

Double Burner (optional)
 Double with Liquid Fire (optional)
 Triple Burner (optional)
 Triple with Liquid Fire (optional)
 Quadruple Burner (optional)

Colt Magnum Superseal

Double Burner (optional)
 Double with UQLF (optional)
 Triple Burner (optional)
 Triple with UQLF (optional)
 Quadruple Burner (optional)

Thunder and Colt Stratus

Double Burner (optional)
 Triple Burner (optional)
 Quadruple Burner (optional)

Basket.

48" x 68" Swept + Flat top
 48" x 87" T-Partition
 60" x 87" Small + Large Compartment T-Partition
 60" x 102" Small + Large Compartment T-Partition
 48" x 82" T-Partition
 60" x 98" Double T-Partition
 60" x 110" Double T-Partition
 60" x 118" Double T-Partition

Fuel.

Commercial LPG or Propane.

Maximum Weight.

3594 lbs. (See NOTE 1)

Allowable Envelope
Temperature.

127°C (257°F) Never exceed.
 120°C (248°F) Maximum continuous.

Fuel Capacity.

Minimum two full cylinders for launch.
 Maximum - Not to exceed Flight Manual weight limitations (See NOTE 4).

Minimum Crew.

1 pilot.

Maximum Occupants.

Not to exceed Flight Manual load chart limitations (See NOTE 1).

Serial Numbers Eligible.

See "Import Requirements".

IX. Model Colt 210A, 210,000 cu. ft (5,947 cu.m), hot air balloon, approved December 22, 1994.Air Heater.Colt Mk II

Double with liquid fire (standard)
 Triple Burner (optional)
 Triple with Liquid Fire (optional)
 Quadruple Burner (optional)

Colt Mk III

Double with liquid fire (optional)
 Triple Burner (optional)
 Triple with Liquid Fire (optional)
 Quadruple Burner (optional)

IX. Model Colt 210A, (cont.)

Air Heater. (cont.)

Colt Magnum Superseal
 Double with Liquid Fire (optional)
 Triple Burner (optional)
 Triple with UQLF (optional)
 Quadruple Burner (optional)

Thunder and Colt Stratus
 Triple Burner (optional)
 Quadruple Burner (optional)

Basket.

60" x 87" Small + Large Compartment T-Partition
 60" x 102" Small + Large Compartment T-Partition
 60" x 98" Double T-Partition
 60" x 110" Double T-Partition
 60" x 118" Double T-Partition
 60" x 126" Double T-Partition

Fuel.

Commercial LPG or Propane.

Maximum Weight.

4189 lbs. (See NOTE 1).

Allowable Envelope Temperature.

127°C (257°F) Never exceed.
 120°C (248°F) Maximum Continuous.

Fuel Capacity.

Minimum two full cylinders for launch.
 Maximum - Not to exceed Flight Manual weight limitations. (See NOTE 4).

Minimum Crew.

1 pilot.

Maximum Occupants.

Not to exceed Flight Manual load chart limitations.

Serial Numbers Eligible.

See "Import Requirements".

X. Model Colt 240A, 240,000 cu.ft. (6,796 cu.m.), hot air balloon, approved June 7, 1984.Air Heater.

Colt Mk II
 Double Burner (standard)
 Double Burner + Liquid Fire (optional)
 Triple Burner (optional)
 Triple Burner with Liquid Fire (optional)
 Quadruple Burner (optional)

Colt Mk III
 Double Burner (optional)
 Double with Liquid Fire (optional)
 Triple Burner (optional)
 Triple with Liquid Fire (optional)
 Quadruple (optional)

Colt Magnum Superseal
 Double Burner (optional)
 Double with UQLF (optional)
 Triple Burner (optional)
 Triple with UQLF (optional)
 Quadruple Burner (optional)

X. Model Colt 240A, (cont.)Air Heater, (cont.)Thunder and Colt Stratus

Triple Burner (optional)

Quadruple Burner (optional)

Basket.

60" x 87" Small + Large Compartment T-Partition

60" x 102" Small + Large Compartment T-Partition

60" x 98" Double T-Partition

60" x 110" Double T-Partition

60" x 118" Double T-Partition

60" x 126" Double T-Partition

60" x 138" Double T-Partition

60" x 160" Double T-Partition

60" x 170" Double T-Partition

Fuel.

Commercial LPG or Propane.

Maximum Weight.

4277 lbs. (See NOTE 1)

Allowable Envelope
Temperature.

127°C (257°F) Never exceed.

120°C (248°F) Maximum continuous.

Fuel Capacity.

Minimum 2 full cylinders for launch.

Maximum - Not to exceed Flight Manual weight limitations (See NOTE 4).

Minimum Crew.

1 pilot.

Maximum Occupants.

Not to exceed Flight Manual load chart limitations.

Serial Numbers Eligible.

See "Import Requirements"

XI. Model Colt 260A, 260,000 cu.ft. (7,362 cu.m) hot air balloon, approved December 22, 1994.Air Heater.Colt Mk II

Double with Liquid Fire (standard)

Triple Burner (optional)

Triple with Liquid Fire (optional)

Quadruple Burner (optional)

Colt Mk III

Double with Liquid Fire (optional)

Triple Burner (optional)

Triple with Liquid Fire (optional)

Quadruple Burner (optional)

Colt Magnum Superseal

Double with UQLF (optional)

Triple Burner (optional)

Triple with UQLF (optional)

Quadruple Burner (optional)

Thunder and Colt Stratus

Triple Burner (optional)

Quadruple Burner (optional)

XI. Model Colt 260A, (cont.)

<u>Basket.</u>	60" x 87" Small + Large Compartment T-Partition 60" x 102" Small + Large Compartment T-Partition 60" x 98" Double T-Partition 60" x 110" Double T-Partition 60" x 118" Double T-Partition 60" x 126" Double T-Partition 60" x 138" Double T-Partition 60" x 170" Double T-Partition 60" x 160" Double T-Partition
<u>Fuel.</u>	Commercial Grade LPG or propane
<u>Maximum Weight.</u>	5203 lbs. (See NOTE 1).
<u>Allowable Envelope Temperature.</u>	127°C (257°F) Never exceed. 120°C (248°F) Maximum continuous.
<u>Fuel Capacity.</u>	Minimum two full cylinders for launch. Maximum - Not to exceed Flight Manual weight limitations. (See NOTE 4).
<u>Minimum Crew.</u>	1 pilot.
<u>Maximum Occupants.</u>	Not to exceed Flight Manual load chart limitations.
<u>Serial Numbers Eligible.</u>	See "Import Requirements".

XII. Model Colt 300A, 300,000 cu.ft. (8,495 cu.m), hot air balloon, approved December 22, 1994.

<u>Air Heater.</u>	<u>Colt Mk II</u> Double with Liquid Fire (standard) Triple Burner (optional) Triple with Liquid Fire (optional) Quadruple Burner (optional) <u>Colt Mk III</u> Double with Liquid Fire (optional) Triple Burner (optional) Triple with Liquid Fire (optional) Quadruple Burner (optional) <u>Colt Magnum Superseal</u> Double with UQLF (optional) Triple Burner (optional) Triple with UQLF (optional) Quadruple Burner (optional) <u>Thunder and Colt Stratus</u> Triple Burner (optional) Quadruple Burner (optional)
<u>Basket.</u>	60" x 102" Small + Large Compartment T-Partition 60" x 98" Double T-Partition 60" x 110" Double T-Partition 60" x 118" Double T-Partition 60" x 126" Double T-Partition 60" x 138" Double T-Partition 60" x 160" Double T-Partition 60" x 170" Double T-Partition

XII. Model Colt 300A, (cont.)

<u>Fuel.</u>	Commercial LPG or Propane.
<u>Maximum Weight.</u>	5952 lbs. (See NOTE 1).
<u>Allowable Envelope Temperature.</u>	127°C (257°F) Never exceed. 120°C (248°F) Maximum continuous.
<u>Fuel Capacity.</u>	Minimum two full cylinders for launch. Maximum - Not to exceed Flight Manual weight limitations. (See NOTE 4).
<u>Minimum Crew.</u>	1 pilot.
<u>Maximum Occupants.</u>	Not to exceed Flight Manual load chart limitations.
<u>Serial Numbers Eligible.</u>	See "Import Requirements".

XIII. Model Colt 315A, 315,000 cu.ft. (8,920 cu.m), hot air balloon, approved December 22, 1994.

<u>Air Heater.</u>	<u>Colt Mk II</u> Triple with Liquid Fire (Standard) Quadruple Burner (optional)
	<u>Colt Mk III</u> Triple with Liquid Fire (optional) Quadruple Burner (optional)
	<u>Colt Magnum Superseal</u> Triple with UQLF (optional) Quadruple Burner (optional)
	<u>Thunder and Colt Stratus</u> Quadruple Burner (optional)
<u>Basket.</u>	60" x 102" Small + Large Compartment T-Partition 60" x 98" Double T-Partition 60" x 110" Double T-Partition 60" x 118" Double T-Partition 60" x 126" Double T-Partition 60" x 138" Double T-Partition 60" x 160" Double T-Partition 60" x 170" Double T-Partition
<u>Fuel.</u>	Commercial LPG or Propane.
<u>Maximum Weight.</u>	6250 lbs. (See NOTE 1).
<u>Allowable Envelope Temperature.</u>	127°C (257°F) Never exceed. 120°C (248°F) Maximum continuous.
<u>Fuel Capacity.</u>	Minimum two full cylinders for launch. Maximum - Not to exceed Flight Manual weight limitations (See NOTE 4).
<u>Minimum Crew.</u>	1 pilot.
<u>Maximum Occupants.</u>	Not to exceed Flight Manual load chart limitations.
<u>Serial Numbers Eligible.</u>	See "Import Requirements".

DATA PERTINENT TO ALL MODELS.

Import Requirements.

A US Standard Airworthiness Certificate may be issued on the basis of a Certificate of Airworthiness for Export, signed by a representative of the UK Civil Aviation Authority, Airworthiness Division, containing the following statement: "The balloon covered by this certificate has been examined, tested and found to conform to the type design approved under FAA Type Certificate B3EU and to be in a condition for safe operation".

Certification Basis.For Models 56A, 69A, 77A and 105A

FAR 21.29 and FAR 31 effective July 1, 1964 as amended by Amendments 31-1 through 31-3.

Type Certificate B3EU issued January 22, 1981, amended December 29, 1982.

Date of application for amendment of the Type Certificate: July 7, 1980.

For Models 90A, 120A, 160A, 180A, 210A, 240A, 260A, 300A and 315A.

FAR 21.29 and FAR 31 effective July 1, 1964 as amended by Amendments 31-1 through 31-3.

Type Certificate B3EU, issued January 22, 1981, amended June 7, 1984.

Date of application for amendment of the Type Certificate: January 26, 1983.

The applicable airworthiness requirements for US certification under FAR 21.29 identified above were established considering the airworthiness requirements applied by the exporting country, and the provisions of paragraphs 4 and 9(h) (ii) of the agreement between the United States of America and the United Kingdom of Great Britain and Northern Ireland dated December 28, 1972, titled Certificates of Airworthiness for Imported Aircraft.

Type Certificate B3EU amended January 10, 1992.

Date of application for amendment of the Type Certificate: October 18, 1991.

Certification Basis
for Models Produced
Under License.

For models produced under license agreement by Thunder & Colt America, the certification basis is the same as for imported models, i.e., FAR 31 effective July 1, 1964, as amended by Amendments 31-1 thru 31-3.

Type Certificate B3EU also approves the design of all models produced by Thunder & Colt America. Thunder & Colt America models are thus eligible for a standard airworthiness certificate in accordance with FAR 21.183(a).

Validation Basis.

Type Certificate No. B3EU was issued pursuant to FAR 21.29 in validation of the UK CAA's certification of compliance with the aforementioned FAA certification basis.

Equipment.

The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) and required placards (see NOTE 2), must be installed in the balloon for standard airworthiness certification. In addition the following equipment is required:

1. Burner lighter-sparker or 2 boxes of matches or equivalent.
2. CAA - approved Thunder & Colt Balloons Flight Manual, Issue 5, dated July 1987 or subsequent revisions.
3. Fire Extinguisher".

Service Information.

Thunder & Colt Technical Information (Service Bulletins), published in the English Language for the US Type Designs that carry a statement "Approved by the United Kingdom Civil Airworthiness Authority (UK CAA)" may be interpreted as FAA Approved.

Available documents for Colt Models 56A, 69A, 77A, 90A, 105A, 120A, 160A, 180A, 210A, 240A, 260A, 300A and 315A- Thunder & Colt Balloon Flight Manual, dated July 1987, UK CAA Approved 19 October 1987, Issue 5.

NOTES.**NOTE 1.****MAXIMUM WEIGHT;**

Permitted takeoff weight (never exceed weight) for balloons up to and including 140,000 cu.ft is based on a lift capability of 21.9 lbs./1,000 cu.ft of volume at a maximum continuous operating temperature of 100°C (212°F) during a 0°C (32°F) ambient air temperature at sea level and constitutes a design stressing case.

Permitted takeoff weight for balloons of 160,000 cu.ft is based on a lift capability of 19.98 lbs./1,000 cu.ft of volume at the above conditions.

Permitted takeoff weight for balloons of 180,000 cu.ft and larger is based on a lift capability of 17.76 lbs./1,000 cu.ft of volume at the above conditions.

See the current issue of the Thunder and Colt Balloons Flight Manual for loading instructions.

Maximum normal takeoff weight: (normal gross) is based on an appropriate lift capability of 17.6 lb./1000 cu.ft of volume at a maximum continuous operating temperature of 100°C (212°F) during a 15°C (59°F) ambient air temperature at sea level to establish a lift between 2000 and 3000 ft altitude. See Thunder & Colt Balloons Flight Manual loading instructions.

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

NOTE 2.

Required placards are to be placed so as to be conspicuous to the pilot:

Maximum continuous operating temperature 120°C (248°F)

Never exceed temperature 127°C (257°F)

The maximum recommended rate of climb and descent should not exceed 1000 FPM (5m/sec).

Maximum mean wind speed 15 kts.

NOTE 3.

Maintenance and Inspection:

In addition to annual inspection requirement stipulated by FAR 91.409, it is required to utilize the "limitations sections" of the maintenance and inspection requirements of Thunder & Colt Flight Manual Maintenance Section, with the date issued at the time of the Certification of the model and serial number of the balloon in question. The use of later dated versions of the maintenance and inspection requirements of Thunder & Colt Flight Maintenance Section are encouraged.

NOTE 4.

Fuel Cylinders Permitted:

The following fuel cylinders are permitted in construction and use based on FAR 31.27 and FAR 31.45. Cylinders may be used in any combination.

Thunder & Colt Model V20 Fuel Cylinder, Stainless Steel

Capacity 20 kg (10 US gallons)

Empty Weight 14 kg (30.9 lb.) each

Full Weight 34 kg (75.0 lb.) each

Maximum working pressure: 232 PSI

Maximum test pressure: 465 PSI

burst pressure: 930 PSI

NOTE 4. (continued)

Thunder & Colt Model V30 Fuel Cylinder, Stainless Steel

Capacity 30 kg (15 US gallons)
Empty Weight 17 kg (37.4 lb.) each
Full Weight 47 kg (103.6 lb.) each
Maximum working pressure: 232 PSI
Maximum test pressure: 465 PSI
Burst pressure: 930 PSI

Thunder & Colt Model V40 Fuel Cylinder, Stainless Steel

Capacity 40 kg (21 US gallons)
Empty Weight 20 kg (44 lb.) each
Full Weight 60 kg (133 lb.) each
Maximum working pressure: 235 PSI
Maximum test pressure: 470 PSI
Burst pressure: 1000 PSI

Worthington Model LE-43-U4 Fuel Cylinder, Aluminum

DOT Spec 4E-240
Capacity 20 kg (10 US gallons)
Empty weight 12 kg (26.5 lb.) each
Full weight 32 kg (70.6 lb.) each

Cameron Balloons/Thunder & Colt CB599 Fuel Cylinder
Stainless Steel

Capacity 21 kg (11 US Gallons)
Empty Weight 15 kg (33.1 lb.) each
Full weight 36 kg (79.5 lb.) each
Maximum working pressure: 232 PSI
Maximum test pressure: 465 PSI
Burst Pressure: 930 PSI

Cameron Balloons/Thunder & Colt CB426 Fuel Cylinder
Stainless Steel

Capacity 30 kg (15 US gallons)
Empty Weight 217 kg (46.6 lb.) each
Full Weight 54 kg (112.7 lb.) each
Maximum working pressure: 232 PSI
Maximum test pressure: 465 PSI
Burst Pressure: 930 PSI

Cameron Balloons/Thunder & Colt CB959 Fuel Cylinder
Stainless Steel

Capacity 40 kg (20 US gallons)
Empty Weight 23 kg (50.8 lb.) each
Full weight 63 kg (139.21 lb.) each
Maximum working pressure: 235 PSI
Maximum test pressure: 470 PSI
Burst pressure: 1000 PSI

Cameron Balloons/Thunder & Colt CBUS1050 Fuel Cylinder
Stainless Steel

Capacity 33 kg (15 US gallons)
Empty Weight 21.8 kg (48 lb.) each
Full weight 55.2 kg (121.5 lb.) each
Maximum working pressure: 225 PSI
Maximum test pressure: 450 PSI
Burst pressure: 900 PSI

Cameron Balloons/Thunder & Colt CBUS1060 Fuel Cylinder
Stainless Steel
Capacity 44 kg (20 US gallons)
Empty Weight 24.5 kg (54 lb.) each
Full weight 69.1 kg (152 lb.) each
Maximum working pressure: 225 PSI
Maximum test pressure: 450 PSI
Burst pressure: 900 PSI

NOTE 5. Revision 15 was composed to include new equipment and to bring the US type data in line with that current in the country of origin, the United Kingdom.

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