

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

N-31	Z-31	B3GL
N-42	Z-42	Revision 46
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TYPE CERTIFICATE DATA SHEET NO. B3GL

This data sheet, which is part of Type Certificate No. B3GL, 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: Cameron Balloons US
7399 Newman Boulevard
Dexter, MI 48130

I - Model N-31, Hot Air Balloon, Approved August 18, 1982

- Envelope Cameron envelope, Drawing CB143 or Drawing CB476. Volume: 31,500 cu. ft.
- Air Heaters Cameron double burner assembly, Drawing CB205 or any eligible Cameron single burner (see NOTE 10).
- Baskets Any eligible Cameron basket (see NOTE 9).
- Fuel Commercial LPG or propane
- Maximum Weight Gross weight limited to 620 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
- Allowable Envelope Temperature
 1. Never exceed: 275°F.
 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F.
 3. Maximum continuous: 250°F.
- Maximum Takeoff Altitude 18,000 ft. MSL
- Minimum Crew One (1) Pilot.
- Fuel Capacity When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Standard or Master tank must be present. When single burner with two vapor pilot lights is used, two Cameron Master tanks must be present. When single burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
- Serial Nos. Eligible 5000 and up (see NOTE 4).

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II - Model N-56, Hot Air Balloon, Approved August 18, 1982

Envelope	Cameron envelope, Drawing CB143 or Drawing CB143-2 or Drawing CB476. Volume: 56,000 cu. ft.
Air Heaters	Any eligible Cameron single or double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 1120 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Standard or Master tank must be present. When single burner with two vapor pilot light is used, two Cameron Master tanks must be present. When single burner with liquid pilot light is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

III - Model N-65, Hot Air Balloon, Approved August 18, 1982

Envelope	Cameron envelope, Drawing CB179 or Drawing CB476. Volume: 65,000 cu. ft.
Air Heaters	Any eligible Cameron single or double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 1300 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Standard or Master tank must be present. When single burner with two vapor pilot light is used, two Cameron Master tanks must be present. When single burner with liquid pilot light is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

IV - Model N-77, Hot Air Balloon, Approved August 18, 1982

Envelope	Cameron envelope, Drawing CB143 or Drawing CB143-1 or Drawing CB476. Volume: 77,500 cu. ft.
Air Heaters	Any eligible Cameron single or double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 1540 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Standard or Master tank must be present. When single burner with two vapor pilot light is used, two Cameron Master tanks must be present. When single burner with liquid pilot light is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

V - Model N-105, Hot Air Balloon, Approved August 18, 1982

Envelope	Cameron envelope, Drawing CB146 or Drawing CBUS146 or Drawing CB476. Volume: 105,000 cu. ft.
Air Heaters	Any eligible Cameron double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 2100 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

VI - Model N-160, Hot Air Balloon, Approved April 22, 1985

Envelope	Cameron envelope, Drawing CBUS1011 or Drawing CB464 or Drawing CB476. Volume: 160,000 cu. ft.
Air Heaters	Any eligible Cameron double or triple burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 3200 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. When triple burner with vapor pilot lights is used, either two Cameron Master and one Cameron Standard tanks or three Cameron Master tanks must be present. When triple burner with liquid pilot lights is used, three Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

VII - Model N-90, Hot Air Balloon, Approved May 9, 1986

Envelope	Cameron envelope, Drawing CBUS370 or Drawing CB476. Volume: 90,000 cu. ft.
Air Heaters	Any eligible Cameron single or double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 1800 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Standard or Master tank must be present. When single burner with two vapor pilot light is used, two Cameron Master tanks must be present. When single burner with liquid pilot light is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

VIII - Model MICKEY-90, Hot Air Balloon, Approved August 21, 1987

Envelope	Cameron envelope, Drawing CB492. Volume: 90,000 cu. ft.
Air Heaters	Any eligible Cameron double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 1800 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

IX - Model DONALD-97, Hot Air Balloon, Approved January 28, 1988

Envelope	Cameron envelope, Drawing CB587. Volume: 97,000 cu. ft.
Air Heaters	Any eligible Cameron double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 1800 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

X - Model N-42, Hot Air Balloon, Approved May 10, 1988

Envelope	Cameron envelope, Drawing CB476. Volume: 42,000 cu. ft.
Air Heaters	Cameron double burner assembly, Drawing CB205 or any eligible Cameron single burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).

Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 840 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Standard or Master tank must be present. When single burner with two vapor pilot lights is used, two Cameron Master tanks must be present. When single burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XI - Model N-120, Hot Air Balloon, Approved May 10, 1988

Envelope	Cameron envelope, Drawing CB476. Volume: 120,000 cu. ft.
Air Heaters	Any eligible Cameron double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 2400 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XII - Model N-133, Hot Air Balloon, Approved May 10, 1988

Envelope	Cameron envelope, Drawing CB476. Volume: 133,000 cu. ft.
Air Heaters	Any eligible Cameron double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 2660 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.

Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XIII - Model N-145, Hot Air Balloon, Approved May 10, 1988

Envelope	Cameron envelope, Drawing CB476. Volume: 145,000 cu. ft.
Air Heaters	Any eligible Cameron double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 2900 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XIV - Model N-180, Hot Air Balloon, Approved May 10, 1988

Envelope	Cameron envelope, Drawing CB476. Volume: 180,000 cu. ft.
Air Heaters	Any eligible Cameron double or triple burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 3600 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.

Fuel Capacity When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. When triple burner with vapor pilot lights is used, either two Cameron Master and one Cameron Standard tanks or three Cameron Master tanks must be present. When triple burner with liquid pilot lights is used, three Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).

Serial Nos.
Eligible 5000 and up (see NOTE 4).

XV - Model CAN-90, Hot Air Balloon, Approved May 10, 1988

Envelope Cameron envelope, Drawing CBUS1031. Volume: 90,000 cu. ft.

Air Heaters Any eligible Cameron double burner (see NOTE 10).

Baskets
Fuel Any eligible Cameron basket (see NOTE 9).
Commercial LPG or propane

Maximum Weight Gross weight limited to 1800 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.

Allowable Envelope
Temperature 1. Never exceed: 275°F.
2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F.
3. Maximum continuous: 250°F.

Maximum Takeoff
Altitude 18,000 ft. MSL

Minimum Crew One (1) Pilot.

Fuel Capacity When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).

Serial Nos.
Eligible 5000 and up (see NOTE 4).

XVI - Model MICKEYHAT-97, Hot Air Balloon, Approved May 10, 1988

Envelope Cameron envelope, Drawing CB627. Volume: 97,000 cu. ft.

Air Heaters Any eligible Cameron double burner (see NOTE 10).

Baskets Any eligible Cameron basket (see NOTE 9).

Fuel Commercial LPG or propane

Maximum Weight Gross weight limited to 1800 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.

Allowable Envelope
Temperature 1. Never exceed: 275°F.
2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F.
3. Maximum continuous: 250°F.

Maximum Takeoff
Altitude 18,000 ft. MSL

Minimum Crew One (1) Pilot.

Fuel Capacity When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).

Serial Nos.
Eligible 5000 and up (see NOTE 4).

XVII - Model N-90S, Hot Air Balloon, Approved May 18, 1989

Envelope	Cameron envelope, Drawing CB493. Volume: 90,000 cu. ft.
Air Heaters	Any eligible Cameron single or double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 1800 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Standard or Master tank must be present. When single burner with two vapor pilot light is used, two Cameron Master tanks must be present. When single burner with liquid pilot light is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XVIII - Model PENGUIN-90, Hot Air Balloon, Approved January 19, 1990

Envelope	Cameron envelope, Drawing CB738. Volume: 90,000 cu. ft.
Air Heaters	Any eligible Cameron double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 1540 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XIX - Model N-210, Hot Air Balloon, Approved September 20, 1991

Envelope	Cameron envelope, Drawing CB476. Volume: 210,000 cu. ft.
Air Heaters	Any eligible Cameron double or triple or quadruple burner (see NOTE 10).

Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 4,200 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. When triple burner with vapor pilot lights is used, either two Cameron Master and one Cameron Standard tanks or three Cameron Master tanks must be present. When triple burner with liquid pilot lights is used, three Cameron Master or Standard tanks must be present. When quadruple burner with vapor pilot lights is used, four Cameron Master tanks must be present. When quadruple burner with liquid pilot lights is used, four Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XX - Model TANK-77, Hot Air Balloon, Approved April 23, 1993

Envelope	Cameron envelope, Drawing CBUS1052. Volume: 100,000 cu. ft.
Air Heaters	Any eligible Cameron double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 2000 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XXI - Model N-70, Hot Air Balloon, Approved December 19, 1995

Envelope	Cameron envelope, Drawing CB476. Volume: 70,000 cu. ft.
Air Heaters	Any eligible Cameron single or double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).

Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 1,400 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Standard or Master tank must be present. When single burner with two vapor pilot light is used, two Cameron Master tanks must be present. When single burner with liquid pilot light is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XXII - Model CHAMPAGNE-90, Hot Air Balloon, Approved May 23, 1996

Envelope	Cameron envelope, Drawing CB1159. Volume: 90,000 cu. ft.
Air Heaters	Any eligible Cameron double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 1,800 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	10,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	6041 and up (see NOTE 4).

XXIII - Model Z-90, Hot Air Balloon, Approved July 30, 1998

Envelope	Cameron envelope, Drawing CBUS1075 or Drawing CBUS1340. Volume: 90,000 cu. ft.
Air Heaters	Any eligible Cameron single or double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 1800 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.

Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Standard or Master tank must be present. When single burner with two vapor pilot light is used, two Cameron Master tanks must be present. When single burner with liquid pilot light is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XXIV - Model Z-77, Hot Air Balloon, Approved December 21, 1998

Envelope	Cameron envelope, Drawing CBUS1077 or Drawing CBUS1342. Volume: 77,500 cu. ft.
Air Heaters	Any eligible Cameron single or double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 1540 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Standard or Master tank must be present. When single burner with two vapor pilot light is used, two Cameron Master tanks must be present. When single burner with liquid pilot light is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XXV - Model Z-105, Hot Air Balloon, Approved December 17, 1999

Envelope	Cameron envelope, Drawing CB1345 or Drawing CBUS1345. Volume: 105,000 cu. ft.
Air Heaters	Any eligible Cameron double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 2,100 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.

Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XXVI - Model STAGECOACH-110, Hot Air Balloon, Approved December 20, 1999

Envelope	Cameron envelope, Drawing CB1387. Volume: Approximately 128,000 cu. ft. Lifting Volume: 110,000 cu. ft.
Air Heaters	Any eligible Cameron double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 2,200 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	4682 and up (see NOTE 4).

XXVII - Model N-100, Hot Air Balloon, Approved February 3, 2000

Envelope	Cameron envelope, Drawing CB476. Volume: 100,000 cu. ft.
Air Heaters	Any eligible Cameron single or double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 2,000 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL

Minimum Crew	One (1) Pilot.
Fuel Capacity	When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Standard or Master tank must be present. When single burner with two vapor pilot light is used, two Cameron Master tanks must be present. When single burner with liquid pilot light is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XXVIII - Model Z-65, Hot Air Balloon, Approved May 23, 2000

Envelope	Cameron envelope, Drawing CBUS1082or Drawing CBUS1346. Volume: 65,000 cu. ft.
Air Heaters	Any eligible Cameron single or double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 1300 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Standard or Master tank must be present. When single burner with two vapor pilot lights is used, two Cameron Master tanks must be present. When single burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XXIX - Model Z-70, Hot Air Balloon, Approved September 11, 2000

Envelope	Cameron envelope, Drawing CBUS1084. Volume: 70,000 cu. ft.
Air Heaters	Any eligible Cameron single or double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 1,400 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.

Fuel Capacity When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Standard or Master tank must be present. When single burner with two vapor pilot light is used, two Cameron Master tanks must be present. When single burner with liquid pilot light is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).

Serial Nos.
Eligible 5000 and up (see NOTE 4).

XXX - Model Z-133, Hot Air Balloon, Approved December 7, 2000

Envelope Cameron envelope, Drawing CBUS1079 or Drawing CBUS1349. Volume: 133,000 cu. ft.

Air Heaters Any eligible Cameron double burner (see NOTE 10).

Baskets Any eligible Cameron basket (see NOTE 9).

Fuel Commercial LPG or propane

Maximum Weight Gross weight limited to 2,660 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.

Allowable Envelope
Temperature 1. Never exceed: 275°F.
 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F.
 3. Maximum continuous: 250°F.

Maximum Takeoff
Altitude 18,000 ft. MSL

Minimum Crew One (1) Pilot.

Fuel Capacity When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).

Serial Nos.
Eligible 5000 and up (see NOTE 4).

XXXI - Model JDCC-90, Hot Air Balloon, Approved June 27, 2001

Envelope Cameron envelope, Drawing CB1447. Volume: Approximately 116,500 cu. ft.
Lifting Volume: 90,000 cu. ft.

Air Heaters Any eligible Cameron double burner (see NOTE 10).

Baskets Any eligible Cameron basket (see NOTE 9).

Fuel Commercial LPG or propane

Maximum Weight Gross weight limited to 1,800 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.

Allowable Envelope
Temperature 1. Never exceed: 275°F.
 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F.
 3. Maximum continuous: 250°F.

Maximum Takeoff
Altitude 10,000 ft. MSL

Minimum Crew One (1) Pilot.

Fuel Capacity When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).

Serial Nos.
Eligible 5000 and up (see NOTE 4).

XXXII - Model M-34, Hot Air Balloon, Approved September 24, 2002

Envelope Cameron envelope, Drawing CBUS1090.
Volume: 34,000 cu. ft.

Air Heaters Cameron double burner assembly, Drawing CB205 or any eligible Cameron single burner (see NOTE 10).

Baskets Any eligible Cameron basket (see NOTE 9).

Fuel Commercial LPG or propane

Maximum Weight Gross weight limited to 680 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.

Allowable Envelope Temperature
1. Never exceed: 275°F.
2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F.
3. Maximum continuous: 250°F.

Maximum Takeoff Altitude 18,000 ft. MSL

Minimum Crew One (1) Pilot.

Fuel Capacity When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Standard or Master tank must be present. When single burner with two vapor pilot lights is used, two Cameron Master tanks must be present. When single burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).

Serial Nos.
Eligible 5000 and up (see NOTE 4).

XXXIII - Model Z-31, Hot Air Balloon, Approved May 13, 2003

Envelope Cameron envelope, Drawing CBUS1462. Volume: 31,000 cu. ft.

Air Heaters Cameron double burner assembly, Drawing CB205 or any eligible Cameron single burner (see NOTE 10).

Baskets Any eligible Cameron basket (see NOTE 9).

Fuel Commercial LPG or propane

Maximum Weight Gross weight limited to 620 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.

Allowable Envelope Temperature
1. Never exceed: 275°F.
2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F.
3. Maximum continuous: 250°F.

Maximum Takeoff Altitude 18,000 ft. MSL

Minimum Crew One (1) Pilot.

Fuel Capacity When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Standard or Master tank must be present. When single burner with two vapor pilot lights is used, two Cameron Master tanks must be present. When single burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).

Serial Nos.
Eligible 5000 and up (see NOTE 4).

XXXIV - Model Z-42, Hot Air Balloon, Approved May 13, 2003

Envelope Cameron envelope, Drawing CBUS1463. Volume: 42,000 cu. ft.

Air Heaters Cameron double burner assembly, Drawing CB205 or any eligible Cameron single burner (see NOTE 10).

Baskets Any eligible Cameron basket (see NOTE 9).

Fuel Commercial LPG or propane

Maximum Weight Gross weight limited to 840 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.

Allowable Envelope Temperature
1. Never exceed: 275°F.
2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F.
3. Maximum continuous: 250°F.

Maximum Takeoff Altitude 18,000 ft. MSL

Minimum Crew One (1) Pilot.

Fuel Capacity When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Standard or Master tank must be present. When single burner with two vapor pilot lights is used, two Cameron Master tanks must be present. When single burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).

Serial Nos.
Eligible 5000 and up (see NOTE 4).

XXXV - Model Z-69, Hot Air Balloon, Approved May 13, 2003

Envelope Cameron envelope, Drawing CBUS1465. Volume: 69,000 cu. ft.

Air Heaters Any eligible Cameron single or double burner (see NOTE 10).

Baskets Any eligible Cameron basket (see NOTE 9).

Fuel Commercial LPG or propane

Maximum Weight Gross weight limited to 1,380 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.

Allowable Envelope Temperature
1. Never exceed: 275°F.
2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F.
3. Maximum continuous: 250°F.

Maximum Takeoff Altitude 18,000 ft. MSL

Minimum Crew One (1) Pilot.

Fuel Capacity When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Standard or Master tank must be present. When single burner with two vapor pilot light is used, two Cameron Master tanks must be present. When single burner with liquid pilot light is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).

Serial Nos.
Eligible 5000 and up (see NOTE 4).

XXXVI - Model Z-120, Hot Air Balloon, Approved May 13, 2003

Envelope Cameron envelope, Drawing CBUS1348. Volume: 120,000 cu. ft.

Air Heaters Any eligible Cameron double burner (see NOTE 10).

Baskets
Fuel Any eligible Cameron basket (see NOTE 9).
Commercial LPG or propane

Maximum Weight Gross weight limited to 2400 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.

Allowable Envelope
Temperature 1. Never exceed: 275°F.
2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F.
3. Maximum continuous: 250°F.

Maximum Takeoff
Altitude 18,000 ft. MSL

Minimum Crew One (1) Pilot.

Fuel Capacity When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).

Serial Nos.
Eligible 5000 and up (see NOTE 4).

XXXVII - Model Z-140, Hot Air Balloon, Approved May 13, 2003

Envelope Cameron envelope, Drawing CBUS1477. Volume: 140,000 cu. ft.

Air Heaters Any eligible Cameron double burner (see NOTE 10).

Baskets
Fuel Any eligible Cameron basket (see NOTE 9).
Commercial LPG or propane

Maximum Weight Gross weight limited to 2,800 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.

Allowable Envelope
Temperature 1. Never exceed: 275°F.
2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F.
3. Maximum continuous: 250°F.

Maximum Takeoff
Altitude 18,000 ft. MSL

Minimum Crew One (1) Pilot.

Fuel Capacity When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).

Serial Nos.
Eligible 5000 and up (see NOTE 4).

XXXVIII - Model Z-145, Hot Air Balloon, Approved May 13, 2003

Envelope	Cameron envelope, Drawing CBUS1350. Volume: 145,000 cu. ft.
Air Heaters	Any eligible Cameron double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 2,900 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XXXIX - Model Z-150, Hot Air Balloon, Approved May 13, 2003

Envelope	Cameron envelope, Drawing CBUS1473. Volume: 150,000 cu. ft.
Air Heaters	Any eligible Cameron double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 3,000 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XL - Model Z-160, Hot Air Balloon, Approved May 13, 2003

Envelope	Cameron envelope, Drawing CBUS1351. Volume: 160,000 cu. ft.
Air Heaters	Any eligible Cameron double or triple burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane

Maximum Weight	Gross weight limited to 3200 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. When triple burner with vapor pilot lights is used, either two Cameron Master and one Cameron Standard tanks or three Cameron Master tanks must be present. When triple burner with liquid pilot lights is used, three Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XLII - Model Z-180, Hot Air Balloon, Approved May 13, 2003

Envelope	Cameron envelope, Drawing CBUS1352. Volume: 180,000 cu. ft.
Air Heaters	Any eligible Cameron double or triple burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 3600 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. When triple burner with vapor pilot lights is used, either two Cameron Master and one Cameron Standard tanks or three Cameron Master tanks must be present. When triple burner with liquid pilot lights is used, three Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XLII - Model Z-210, Hot Air Balloon, Approved May 13, 2003

Envelope	Cameron envelope, Drawing CBUS1353. Volume: 210,000 cu. ft.
Air Heaters	Any eligible Cameron double or triple or quadruple burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 4,200 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.

Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. When triple burner with vapor pilot lights is used, either two Cameron Master and one Cameron Standard tanks or three Cameron Master tanks must be present. When triple burner with liquid pilot lights is used, three Cameron Master or Standard tanks must be present. When quadruple burner with vapor pilot lights is used, four Cameron Master tanks must be present. When quadruple burner with liquid pilot lights is used, four Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XLIII - Model Z-225, Hot Air Balloon, Approved May 13, 2003

Envelope	Cameron envelope, Drawing CBUS1466. Volume: 225,000 cu. ft.
Air Heaters	Any eligible Cameron double or triple or quadruple burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 4,500 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. When triple burner with vapor pilot lights is used, either two Cameron Master and one Cameron Standard tanks or three Cameron Master tanks must be present. When triple burner with liquid pilot lights is used, three Cameron Master or Standard tanks must be present. When quadruple burner with vapor pilot lights is used, four Cameron Master tanks must be present. When quadruple burner with liquid pilot lights is used, four Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XLIV - Model Z-250, Hot Air Balloon, Approved May 13, 2003

Envelope	Cameron envelope, Drawing CBUS1459. Volume: 250,000 cu. ft.
Air Heaters	Any eligible Cameron double or triple or quadruple burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane

Maximum Weight	Gross weight limited to 5,000 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	18,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. When triple burner with vapor pilot lights is used, either two Cameron Master and one Cameron Standard tanks or three Cameron Master tanks must be present. When triple burner with liquid pilot lights is used, three Cameron Master or Standard tanks must be present. When quadruple burner with vapor pilot lights is used, four Cameron Master tanks must be present. When quadruple burner with liquid pilot lights is used, four Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XLV - Model ZL-56, Hot Air Balloon, Approved May 19, 2004

Envelope	Cameron envelope, Drawing CBUS1095. Volume: 56,000 cu. ft.
Air Heaters	Any eligible Cameron single or double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 1,120 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	10,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Standard or Master tank must be present. When single burner with two vapor pilot light is used, two Cameron Master tanks must be present. When single burner with liquid pilot light is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XLVI - Model ZL-60, Hot Air Balloon, Approved May 19, 2004

Envelope	Cameron envelope, Drawing CBUS1520. Volume: 60,000 cu. ft.
Air Heaters	Any eligible Cameron single or double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane

Maximum Weight	Gross weight limited to 1,200 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	10,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Standard or Master tank must be present. When single burner with two vapor pilot light is used, two Cameron Master tanks must be present. When single burner with liquid pilot light is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XLVII - Model ZL-65, Hot Air Balloon, Approved June 21, 2004

Envelope	Cameron envelope, Drawing CBUS1097. Volume: 65,000 cu. ft.
Air Heaters	Any eligible Cameron single or double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 1,300 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	10,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Standard or Master tank must be present. When single burner with two vapor pilot light is used, two Cameron Master tanks must be present. When single burner with liquid pilot light is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XLVIII - Model SPHERE-90, Hot Air Balloon, Approved July 22, 2004

Envelope	Cameron envelope, Drawing CB1522. Volume: 90,000 cu. ft.
Air Heaters	Any eligible Cameron double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane

Maximum Weight	Gross weight limited to 1,800 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	10,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

XLIX - Model ZL-70, Hot Air Balloon, Approved May 8, 2008

Envelope	Cameron envelope, Drawing CBUS1519. Volume: 70,000 cu. ft.
Air Heaters	Any eligible Cameron single or double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 1,400 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	10,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Standard or Master tank must be present. When single burner with two vapor pilot light is used, two Cameron Master tanks must be present. When single burner with liquid pilot light is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

L - Model SPHERE-105, Hot Air Balloon, Approved October 29, 2008

Envelope	Cameron envelope, Drawing CB693. Volume: 101,000 cu. ft.
Air Heaters	Any eligible Cameron double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 2020 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.

Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	10,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

LI - Model Z-60, Hot Air Balloon, Approved June 22, 2009

Envelope	Cameron envelope, Drawing CB10038. Volume: 60,000 cu. ft.
Air Heaters	Any eligible Cameron single or double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 1200 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	10,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Standard or Master tank must be present. When single burner with two vapor pilot light is used, two Cameron Master tanks must be present. When single burner with liquid pilot light is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

LII - Model Bottle-105, Hot Air Balloon, Approved June 4, 2010

Envelope	Cameron envelope, Drawing CB1634. Volume: 105,000 cu. ft. Active 124,683 cu. ft. Gross
Air Heaters	Any eligible Cameron double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 2100 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	10,000 ft. MSL

Minimum Crew	One (1) Pilot.
Fuel Capacity	When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

LIII - Model ZL-84, Hot Air Balloon, Approved August 31, 2012

Envelope	Cameron envelope, Drawing CBUS1612. Volume: 84,000 cu. ft.
Air Heaters	Any eligible Cameron single or double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 1680 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	10,000 ft. MSL
Minimum Crew	One (1) Pilot.
Fuel Capacity	When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Master or Standard tank must be present. When single burner with two vapor pilot lights is used, two Cameron Master tanks must be present. When single burner with liquid pilot is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).
Serial Nos. Eligible	5000 and up (see NOTE 4).

LIV - Model ZL-77, Hot Air Balloon, Approved October 3, 2012

Envelope	Cameron envelope, Drawing CBUS1591. Volume: 77,000 cu. ft.
Air Heaters	Any eligible Cameron single or double burner (see NOTE 10).
Baskets	Any eligible Cameron basket (see NOTE 9).
Fuel	Commercial LPG or propane
Maximum Weight	Gross weight limited to 1540 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.
Allowable Envelope Temperature	<ol style="list-style-type: none"> 1. Never exceed: 275°F. 2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F. 3. Maximum continuous: 250°F.
Maximum Takeoff Altitude	10,000 ft. MSL
Minimum Crew	One (1) Pilot.

Fuel Capacity When single burner with one vapor pilot light is used, one Cameron Master tank and one Cameron Master or Standard tank must be present. When single burner with two vapor pilot lights is used, two Cameron Master tanks must be present. When single burner with liquid pilot is used, two Cameron Master or Standard tanks must be present. When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).

Serial Nos. Eligible 5000 and up (see NOTE 4).

LV - Model FIJI-105, Hot Air Balloon, Approved March 3, 2015

Envelope Cameron envelope, Drawing CB1700. Volume: 105,000 cu. ft.

Air Heaters Any eligible Cameron double burner (see NOTE 10).

Baskets Any eligible Cameron basket (see NOTE 9).

Fuel Commercial LPG or propane

Maximum Weight Gross weight limited to 2100 lbs., or to the weight requiring maximum continuous envelope temperature of 250°F., whichever is less. See Balloon Flight Manual.

Allowable Envelope Temperature

1. Never exceed: 275°F.
2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 250°F. to 275°F.
3. Maximum continuous: 250°F.

Maximum Takeoff Altitude 10,000 ft. MSL

Minimum Crew One (1) Pilot.

Fuel Capacity When double burner with vapor pilot lights is used, two Cameron Master tanks must be present. When double burner with liquid pilot lights is used, two Cameron Master or Standard tanks must be present. Additional Cameron Master or Standard tanks may be carried as desired by pilot (see NOTE 8).

Serial Nos. Eligible 5000 and up (see NOTE 4).

Data Pertinent to All Models

Certification Basis Part 31 of the Federal Aviation Regulations dated July 1, 1964, as amended by 31-1 and 31-4 inclusive. Application for Type Certificate dated March 16, 1982. Type Certificate No. B3GL issued August 18, 1982.

Production Basis Production Certificate No. 327CE.

Equipment In addition to the basic equipment required by the Certification Basis, the following equipment is also required:

- (1) Fire extinguisher rated at least 1A:10BC or 5B:C if Halon 1211.
- (2) Two sources of ignition (striker, matches or equal).
- (3) Protective helmets for pilot and passengers, if a flexible burner support system basket is operated or if a basket incorporating the FlexiRigid burner support system is operated without all FlexiRigid poles properly installed.
- (4) Leather gloves or equivalent for the pilot.
- (5) FAA Approved Balloon Flight Manual dated July 27, 1983 or later approved revision.

Maintenance and

Inspection Maintenance and Inspection of this Aircraft must be carried out according to the most recent publication of the Cameron Balloons US Instructions for Continued Airworthiness (original date of issuance: October 31, 1982).

NOTE 1. Reserved.

NOTE 2. Reserved.

NOTE 3. Reserved.

NOTE 4. Each hot air balloon envelope must have an individual registration number. An individual envelope is eligible for a Standard Airworthiness Certificate when mated with any approved combination of basket, burner, and fuel tanks (see Notes 8, 9, 10, 11).

Cameron Balloons US envelopes may be disassembled and reassembled with a combination of eligible burners, baskets, and fuel tanks. The interchange of the burners, baskets, and fuel tanks is recorded into the logbook and endorsed by the owner/operator or by an FAA Certificated Repairman.

When Cameron Balloons US manufactures an envelope only, it is assembled to an appropriate burner, basket, and fuel tanks (bottom end) and is flight tested, and it is then eligible for a standard airworthiness certificate. When this occurs, Cameron Balloons US will deliver the balloon envelope, with a standard airworthiness certificate, and a logbook.

When the balloon owner receives the new balloon envelope, it must be assembled to an eligible bottom end (see Notes 8, 9, 10, 11). The installation of the burners, baskets, and fuel tanks is recorded into the logbook and endorsed by the owner/operator or by an FAA Certificated Repairman.

The envelope owner must register the balloon in accordance with the applicable requirements.

NOTE 5. For the purpose of maintenance and inspection, operation records (logbooks) must be maintained with each hot air balloon envelope. If burner, basket, instruments, and/or tanks are interchanged, separate logbooks must be maintained for each component or group of components which are always used together. Fuel tanks must be inspected at least annually, and if tanks other than the serial numbers specified in the Flight Manual are to be used with the aircraft, the additional tanks must be inspected and noted in the Flight Manual by an FAA Certificated Repairman. The Flight Manual must be presented to an FAA Certificated Repair Station during annual inspections for verification of components being inspected.

NOTE 6 Eligible Cameron Instruments:

Temperature Gauge	Weston, 5" Face Thermometer
Thermister (Wired)	Advanced Aircraft Components DT-21A
Thermister (Wired)	Telex BTE (Display) Telex API (Sensor)
Thermister (Wireless)	Ball Model M59R (Receiver) Ball Model M59T (Transmitter)
Mechanical Altimeter	United Instruments, Inc.
Mechanical Vertical Velocity Indicator	United Instruments, Inc.
Mechanical Variometer	Ball Model 400/3 Ball Model 502
Variometer and Altimeter	Ball Model M22 Ball Model M53
Variometer, Altimeter and Thermister (Wired)	Ball Model 655 Ball Model M55
Variometer, Altimeter and Thermister (Wireless)	Flytec Model 3040 Flytec Model 6040

NOTE 7. Inflated appendages on the envelope are permitted and approved as described in Drawing CBUS1016, Issue A, dated March 3, 1986, or later FAA approved revisions. Appendages must meet the same standards for strength as the balloon envelope. Appendages may be sewn onto the surface of the envelope per the seam style specified in Drawing CBUS1015.

NOTE 8. Eligible Cameron Master tanks:
P/N CB250 Master (10 gallon or 8 gallon capacity, each at 80 percent fill),
P/N CB497 when fitted with vapor outlet and regulator (10 gallon capacity, at 80 percent fill),
P/N CB599 when fitted with vapor outlet and regulator (11 gallon capacity, at 80 percent fill),
P/N CB2385 when fitted with vapor outlet and regulator (11 gallon capacity, at 80 percent fill),
P/N CB2900 when fitted with vapor outlet and regulator (11.9 gallon capacity, at 80 percent fill),

P/N CB2902 when fitted with vapor outlet and regulator (14.3 gallon capacity, at 80 percent fill),
 P/N CB426 when fitted with vapor outlet and regulator (15 gallon capacity, at 85 percent fill),
 P/N CB2380 when fitted with vapor outlet and regulator (15 gallon capacity, at 85 percent fill),
 P/N CB2387 when fitted with vapor outlet and regulator (15 gallon capacity, at 85 percent fill),
 P/N CBUS1050 when fitted with vapor outlet and regulator (15 gallon capacity, at 83 percent fill),
 P/N CB2901 when fitted with vapor outlet and regulator (15.9 gallon capacity, at 80 percent fill),
 P/N CB2903 when fitted with vapor outlet and regulator (19 gallon capacity, at 80 percent fill),
 P/N CB959 when fitted with vapor outlet and regulator (20 gallon capacity, at 81.8 percent fill),
 P/N CB2383 when fitted with vapor outlet and regulator (20 gallon capacity, at 81.8 percent fill),
 P/N CBUS1060 when fitted with vapor outlet and regulator (20 gallon capacity, at 83 percent fill).

Eligible Cameron Standard tanks:

P/N CB250 Standard (10 gallon or 8 gallon capacity, each at 80 percent fill),
 P/N CB497 when not fitted with vapor outlet and regulator (10 gallon capacity, at 80 percent fill),
 P/N CB599 when not fitted with vapor outlet and regulator (11 gallon capacity, at 80 percent fill),
 P/N CB2385 when not fitted with vapor outlet and regulator (11 gallon capacity, at 80 percent fill),
 P/N CB2900 when not fitted with vapor outlet and regulator (11.9 gallon capacity, at 80 percent fill),
 P/N CB2902 when not fitted with vapor outlet and regulator (14.3 gallon capacity, at 80 percent fill),
 P/N CB426 when not fitted with vapor outlet and regulator (15 gallon capacity, at 85 percent fill),
 P/N CB2380 when not fitted with vapor outlet and regulator (15 gallon capacity, at 85 percent fill),
 P/N CB2387 when not fitted with vapor outlet and regulator (15 gallon capacity, at 85 percent fill),
 P/N CBUS1050 when not fitted with vapor outlet and regulator (15 gallon capacity, at 83 percent fill),
 P/N CB2901 when not fitted with vapor outlet and regulator (15.9 gallon capacity, at 80 percent fill),
 P/N CB2903 when not fitted with vapor outlet and regulator (19 gallon capacity, at 80 percent fill),
 P/N CB959 when not fitted with vapor outlet and regulator (20 gallon capacity, at 81.8 percent fill),
 P/N CB2383 when not fitted with vapor outlet and regulator (20 gallon capacity, at 81.8 percent fill),
 P/N CBUS1060 when not fitted with vapor outlet and regulator (20 gallon capacity, at 83 percent fill).

P/N CB426, CB497, CB599, CB2380, CB2387, CBUS1050, CB2900, and CB2901 tanks may be used only with baskets with Serial No. 8800 and up.

P/N CB959, CB2383, CBUS1060, and CB2903 tanks may be used only with basket part numbers 301-3FSH, 301-3FWH, 301-4FSH, 301-4FWH, 301-5FSH, 301-5FWH, 301-6FSH, 301-6FWH, CBUS301-5, CB302, CBUS302, CB302-1, CBUS302-1, CB302-2, CBUS302-2, CB302-3, CBUS302-3, CB302-4, CBUS302-4, CB754, CB755, CB860, CB862, CBUS1056, CB3004, CB3022, CB3042, CB3084, CB3288, CBUS3319, CB8005, CB8006, CB8007, CB8008, CB8016, CB8017, CB8018, CB8019, and CB991 having Serial No. 9300 and up.

NOTE 9.

Eligible Cameron baskets:

Any size specified in Drawing 301-3FSH**, 301-3FSR**, 301-3FWH**, 301-3FWR**, 301-4FSH**, 301-4FSR**, 301-4FWH**, 301-4FWR**, 301-5FSH**, 301-5FSR**, 301-5FWH**, 301-5FWR**, 301-6FSH**, 301-6FSR**, 301-6FWH**, 301-6FWR**, CB300****, or Drawing CBUS300****, or Drawing CB301***, or Drawing CBUS301***, or Drawing CBUS301-5, or Drawing CB301-7, or Drawing CBUS301-7, or Drawing CB301-8, or Drawing CB301-9, or Drawing CB302, or Drawing CBUS302, or Drawing CB302-1, or Drawing CBUS302-1, or Drawing CB302-2, or Drawing CBUS302-2 or Drawing CB302-3, or Drawing CBUS302-3, or Drawing CB302-4, or Drawing CBUS302-4, or Drawing CB310-1A, or Drawing CB310-2A, or Drawing CB310-3A, or Drawing CB310-4A, or Drawing CB310-5A, or Drawing CB754, or Drawing CB755, or Drawing CB860, or Drawing CB862, or Drawing CB991, or Drawing CBUS1056, or Drawing CB3004, or Drawing CB3022, or Drawing CB3042, or Drawing CB3084, or Drawing CB3288 or Drawing CBUS3319*, or Drawing CB8000**, or Drawing CB8001**, or Drawing CB8002**, or Drawing CB8003**, or Drawing CB8005**, or Drawing CB8006**, or Drawing CB8007**, or Drawing CB8008**, or Drawing CB8010**, or Drawing CB8012**, or Drawing CB8013**, or Drawing CB8014**, or Drawing CB8016**, or Drawing CB8017**, or Drawing CB8018**, or Drawing CB8019**, or Drawing CB8021**, or Drawing CB8022**, or Drawing CB8045**.

All baskets having at least one inner partition must be operated with all FlexiRigid poles properly installed.

* Basket CBUS3319 issue A is limited to a Maximum Gross Weight of 3,200 lbs.

* When a wheelchair is carried on board basket CBUS3319 issue A, at least one functioning turning vent in the envelope is required for free flight.

** Baskets are limited to a Maximum Gross Weight of 4,200 lbs.

*** Baskets CB301 and CBUS301 are part numbers for FlexiRigid burner support system baskets (Aristocrat baskets). CB301 and CBUS301 have four different sizes listed on them. In the logbook and flight manual, the basket part numbers have a suffix of either -2, -3, -4, or -6 (i.e. CB301-4). These dash numbers represent the following size Aristocrat baskets: -2 = 42x44, -3 = 42x52, -4 = 42x58 and -6 = 46x62.

**** Baskets CB300 and CBUS300 are part numbers for flexible suspension system baskets. CB300 and CBUS300 have five different sizes listed on them. In the logbook and flight manual, the basket part numbers have a suffix of either -1, -2, -3, -4, or -5 (i.e. CB300-4). These dash numbers represent the following size baskets: -1 = 27x30, -2 = 40x40, -3 = 40x48, -4 = 40x54 and -5 = 50x64.

NOTE 10.

Eligible Cameron single burners: Drawings CB391, CBUS391, CB2130-1, CB2130-2, CBUS10010.

Eligible Cameron double burners: Drawings CB205, CB392, CBUS392, CB579, CBUS579, CB579-1, CB579-2, CB2075-1, CB2075-2, CB2059, CB2702, CB2832, CBUS10011, CBUS10014, CBUS10017.

- Eligible Cameron triple burners: Drawings CB378, CB663-1, CB663-2, CB2081-1, CB2081-2, CB2703, CB2833, CBUS10012, CBUS10015, CBUS10018.
- Eligible Cameron quadruple burners: Drawings CB616, CB2083-1, CB2083-2, CB2704, CB2834, CBUS10013, CBUS10016, CBUS10019.

Due to the similarity of Stratus burners manufactured by Cameron Balloons Ltd., these air heaters may be used in conjunction with Cameron Balloons US aircraft, when installed using an approved burner frame and subject to the operations and limitations given in the approved Cameron Balloons US Flight Manual Supplement. The Flight Manual Supplement is required equipment and must be carried on board the aircraft.

- Eligible Stratus Single Burners: Drawings: CB8710, CB8711, CB8712, CB8713.
- Eligible Stratus Double Burners: Drawings: CB8720, CB8721.
- Eligible Stratus Triple Burners: Drawings: CB8730, CB8731, CB8732, CB8733, CB8734, CB8735.
- Eligible Stratus Quadruple Burners: Drawings: CB8740, CB8741, CB8742, CB8743.

- NOTE 11. Specific Envelope, Air Heater (Burner), Basket, and Fuel Tank Drawing Revision (Issue) Letters are not listed. Drawing Revision Letters are included on Air Heater, Basket, and Fuel Tank data plates, as well as being listed in the Aircraft log book and flight manual, to identify changes to the original drawing.
- NOTE 12. Due to the similarity of design, certain baskets, burners and fuel cylinders manufactured by Thunder & Colt may be used in conjunction with a Cameron Balloons envelope. This installation is subject to the operations and limitations given in the approved Cameron Balloons Flight Manual Supplement. The approved Model specific Flight Manual Supplement is required equipment and must be carried onboard the aircraft.
- NOTE 13. Due to the similarity of design, certain baskets, burners and fuel cylinders manufactured by Lindstrand Balloons may be used in conjunction with a Cameron Balloons envelope. This installation is subject to the operations and limitations given in the approved Cameron Balloons Flight Manual Supplement. The approved Model specific Flight Manual Supplement is required equipment and must be carried onboard the aircraft.
- NOTE 14. Due to the similarity of design, certain baskets, burners and fuel cylinders manufactured by Aerostar International, may be used in conjunction with a Cameron Balloons envelope. This installation is subject to the operations and limitations given in the approved Cameron Balloons Flight Manual Supplement. The approved Model specific Flight Manual Supplement is required equipment and must be carried onboard the aircraft.
- NOTE 15. The Pre-Vent Parachute Control System as defined by drawing CBUS10113 is approved as an optional installation on all balloons listed on Type Certificate Data Sheet B3GL. The FAA Approved Balloon Flight Manual Supplement, dated August 22, 2012, or later FAA approved revisions, is required with this installation.
- Note 16. Due to the similarity of design, certain baskets, burners and fuel cylinders manufactured by Firefly Balloons (The Balloon Works), may be used in conjunction with a Cameron Balloons envelope. This installation is subject to the operations and limitations given in the approved Cameron Balloons Flight Manual Supplement. The approved Flight Manual Supplement is required equipment and must be carried onboard the aircraft.

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