

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

A29SO
Revision 5
Head Balloons

AX7-77
AX8-88
AX7-77b
AX8-105
AX9-118
AX8-88b

October 15, 1989

TYPE CERTIFICATE DATA SHEET NO. A29SO

This data sheet, which is part of Type Certificate No. A29SO 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: Head Balloons, Inc.
 P.O. Box 28
 Helen, Georgia 30545

I. - Model AX7-77 Hot Air Balloon, Approved June 1, 1984.

Air Heater Head DBII Burner

Fuel Commercial LPG or Propane

Maximum Weight 1400 pounds (This weight includes the weight of the envelope.)

Allowable Envelope Temperature 250° F

Fuel Capacity Two, Three or Four Ten-Gallon Propane Cylinder, Worthington
 Model 43-04 or Manchester Model 43

Serial Numbers Eligible 2 and subsequent

II. - Model AX8-88 Hot Air Balloon, Approved August 15, 1984

Air Heater Head DBII burner

Fuel Commercial LPG or Propane

Maximum Weight 1500 pounds (This weight includes the weight of the envelope.)

Allowable Envelope Temperature 250° F

Fuel Capacity Two, Three or Four Ten-Gallon Propane Cylinder, Worthington
 Model 43-04 or Manchester Model 43

Serial Numbers 102 and subsequent

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III. Model AX7-77b Hot Air Balloon, Approved October 1, 1985

<u>Air Heater</u>	Head DBII Burner
<u>Fuel</u>	Commercial LPG or Propane
<u>Maximum Weight</u>	1400 Pounds (This weight includes the weight of the envelope.)
<u>Allowable Envelope Temperature</u>	250° F
<u>Fuel Capacity</u>	Two, Three or Four Ten-Gallon Propane Cylinder, Worthington Model 43-04 or Manchester Model 43.

IV. Model AX8-105 Hot Air Balloon, Approved July 23, 1987

<u>Air Heater</u>	Head DBII Burner
<u>Fuel</u>	Commercial LPG or Propane
<u>Maximum Weight</u>	1650 pounds (This weight includes the weight of the envelope.)
<u>Allowable Envelope Temperature</u>	250°F
<u>Fuel Capacity</u>	Two, Three or Four Ten-Gallon Propane Cylinder, Worthington Model 43-04 or Manchester Model 43.

V. Model AX9-118 Hot Air Balloon, Approved September 23, 1987

<u>Air Heater</u>	Head DBII Burner
<u>Fuel</u>	Commercial LPG or Propane
<u>Maximum Weight</u>	1650 pounds (This weight includes the weight of the envelope.)
<u>Allowable Envelope Temperature</u>	250°F
<u>Fuel Capacity</u>	Two, Three or Four Ten-Gallon Propane Cylinder, Worthington Model 43-04 or Manchester Model 43.
<u>Serial Numbers Eligible</u>	144 and subsequent

VI. - Model AX8-88b Hot Air Balloon, Approved October 6, 1989

<u>Air Heater</u>	Head DBII Burner
<u>Fuel</u>	Commercial LPG or Propane
<u>Maximum Weight</u>	500 pounds (This weight includes the weight of the envelope.)
<u>Allowable Envelope Temperature</u>	250°F
<u>Fuel Capacity</u>	Two, Three or Four Ten-Gallon Propane Cylinder, Worthington Model 43-04 or Manchester Model 43
<u>Serial Numbers Eligible</u>	161 and subsequent

DATA PERTINENT TO ALL MODELS

<u>Certification Basis</u>	Part 31 of the Federal Aviation Regulations dated July 1, 1964, as amended by 31-1 through 31-4. Application for Type Certificate dated July 13, 1981. Type Certificate No. A29SO issued June 1, 1984, amended August 15, 1984, October 1, 1985, July 23, 1987, September 23, 1987, and October 6, 1989.
<u>Production Basis</u>	APIS, issued under FAR 21, Subpart F.
<u>Export Eligibility</u>	Balloon will be eligible for issuance of an Export Certificate of Airworthiness subject to compliance with Federal Aviation Regulation Part 21, Subpart L, Sections 21.321 through 21.339. The applicable procedures are contained in Advisory Circular No. 21-2E.
<u>Equipment</u>	<p>The basic required equipment as prescribed in the applicable airworthiness regulations (see certification basis) must be installed in the aircraft for certification. In addition, the following equipment must be installed:</p> <ol style="list-style-type: none">1. Burner lighter or sparker.2. FAA approved flight manual.
<u>Maintenance and Inspection</u>	The basket, burner, envelope and attaching means shall be inspected,, maintained and repaired in accordance with Head Hot Air Balloon Maintenance Manual.

- NOTE 1:
- (a) Prior to shipment of a balloon envelope (and necessary attaching system), produced for use with a burner/basket assembly that is eligible for use with that envelope, the production approval holder must determine that the envelope and necessary attaching system conforms to the type design and is in a condition for safe operation. A Statement of Conformity, FAA Form 8130-9, may be used for this purpose. This envelope, in combination with an eligible burner/basket assembly may be registered and is eligible for issuance of a standard airworthiness certificate when the applicant for such certificate shows, and the Administrator finds, that the envelope, burner, and basket combination conforms to the type design and is in a condition for safe operation.
 - (b) Balloon burner/basket assemblies specifically designed for quick removal and installation from one envelope to another may be accomplished by the pilot/owner who holds at least a private pilot certificate. Appropriate entries must be made in the balloon records noting the removal and/or installation of burner/basket assemblies.
 - (c) Appropriate entries into balloon records of burner/basket assembly removals and installations must be made by FAA certificated mechanics if the pilot/owner is not eligible to accomplish this task.

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