

**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

S00002SE Revision 1 ABC A-1-50 October 3, 1997
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TYPE CERTIFICATE DATA SHEET S00002SE

This data sheet, which is part of Type Certificate No. S00002SE, prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Provisional Type Certificate Holder: American Blimp Corporation
1900 N.E. 25th Avenue, Suite 5
Hillsboro, Oregon 97124

I - Model A-1-50 Airship (Approved October 3, 1997)

Envelope: Volume 150,000 cu. ft.
 Maximum Pressure 2.0 in. H₂O
 Minimum Pressure 1.3 in. H₂O

Lifting Gas: Use of helium gas only as a lifting gas.

Engine: Two (2) Lycoming Model IO-360-B1G6, Engine Type Certificate Data Sheet 1E10.

Fuel: 100LL minimum grade aviation fuel.

Oil: See Engine Type Certificate Data Sheet 1E10.

Engine Limits: Rated maximum continuous horsepower 180 @ 2700 r.p.m. Maximum cylinder head temperature: 500 degrees F.
 * see note 4

Propeller and
Propeller Limits: Two (2) MT five bladed, laminated wood composite structure, epoxy-fiber glass cover, with metal tipping, Model No. MTV-25-B-C. Maximum allowable r.p.m.: 2700.
 * see note 5

Airspeed Limits: Maximum Level Flight Speed 55 m.p.h. IAS
 Maximum Operating Limit Speed 60 m.p.h. IAS
 Design Speed for Maximum Gust Intensity 46 m.p.h. IAS

C.G.Range: See FAA approved Airship Flight Manual, Document 301030

Datum: Theoretical bow of the envelope. The theoretical bow is 26 inches aft of the nose mooring probe. All station measurements are shown in inches. Gondola datum is airship gore station 739.

Maximum Weights: See FAA approved Airship Flight Manual, Document 301030

Minimum Crew: 1 Pilot

No. of Seats: 9 (1 on right front seat, 5 on seat track seats and 3 on rear bench seat)

Fuel Capacity: 150.8 gallons (148 gallons usable)

Maximum Operating
Altitude: 10,000 feet

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Serial Numbers Eligible: 001 and on

Additional Pertinent Data

Certification Basis: FAR 21.17(b) effective September 9, 1992

Compliance with FAR 21.17(b) has been shown utilizing the provisions of Advisory Circular 21.17-1A, dated September 25, 1992. The airworthiness requirements met under this provision are the Airship Design Criteria (ADC), FAA P-8110-2, dated November 2, 1987, as amended by Change 1, dated July 24, 1992 and Change 2, dated February 6, 1995.

Application for Type Certificate dated June 29, 1995.

Type Certificate No. S00002SE issued October 3, 1997.

Equipment: The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification.

In addition to the above required equipment, the following equipment is also required:

Latest FAA-approved Airship Flight Manual, Document 301030

American Blimp Corporation Ground Handling Manual, 301001, Revision B, dated September 25, 1997, or later FAA-approved revisions is to be made available to the operator's flight and ground crews.

Maintenance and Inspection

Maintenance and Inspection of this airship must be carried out in accordance with American Blimp Corporation Instructions for Continued Airworthiness, Document 301032, original issue, dated September 22, 1997, or later FAA-approved revisions.

NOTE 1 All placards required in the FAA approved Airship Flight Manual 301030 must be installed in the appropriate locations.

NOTE 2 The Auxiliary Power Unit (Generator System) is limited to non-flight safety electrical services whose failure or malfunction will pose no safety hazard (e.g. advertising lighting, etc.)

NOTE 3 Current Weight and Balance Report together with list of equipment included in certificated empty weight, and loading instructions when necessary, must be provided for each aircraft at the time of original certification. The certificated empty weight must include unusable fuel of 14 lbs. at gondola station 237.5.

NOTE 4 Lycoming Engine Data Sheet No. 1E10, provides information on the engine maximum oil temperatures and oil fuel pressure limitations.

NOTE 5 MT propeller Data Sheet No. P14BO, provides information on the propeller diameter and rotational speed limitations.

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