

II - Model 77B, Hot Air Balloon, Approved March 13, 1996.

<u>Envelope.</u>	Volume 77,000 cu.ft., drawing EB-077-A-001.
<u>Air Heater.</u>	Lindstrand Jetstream Series 1 Burner Assembly: Double Burner, drawing BU-002-A-001. Single Burner, drawing BU-001-A-001. Super Single Burner, drawing BU-007-A-001. Lindstrand Jetstream Series 2 Burner Assembly: Double Burner, drawings BU-008-A-001 and BU-008-A-002.
<u>Baskets.</u>	Lindstrand Baskets to drawings BA-001-A-001, BA-002-A-001, BA-002-A-002, BA-003-A-001, BA-003-A-002, BA-005-A-001, BA-006-A-001, BA-007-A-001, BA-008-A-001, and BA-009-A-001.
<u>Fuel.</u>	Commercial LPG or Propane.
<u>Maximum Weight.</u>	1694 lbs, or to the weight requiring a maximum continuous envelope temperature of 257°F, whichever is less. See approved Flight Manual.
<u>Allowable Envelope Temperature.</u>	1. Never exceed 261°F. 2. Maximum continuous 257°F.
<u>Minimum Crew.</u>	One (1) Pilot.
<u>Minimum Fuel Required.</u>	Two standard cylinders must be present (see also NOTE 4).
<u>Serial No's Eligible.</u>	119 onwards.

III - Model Drinks Can, Hot Air Balloon, Approved March 13, 1996.

<u>Envelope.</u>	Volume 90,000 cu.ft., drawing SS-009-A-001.
<u>Air Heater.</u>	Lindstrand Jetstream Series 1 Burner Assembly: Double Burner, drawing BU-002-A-001. Single Burner, drawing BU-001-A-001. Super Single burner, drawing BU-007-A-001. Lindstrand Jetstream Series 2 Burner Assembly: Double Burner, drawings BU-008-A-001 and BU-008-A-002.
<u>Baskets.</u>	Lindstrand Baskets to drawings BA-001-A-001, BA-002-A-001, BA-002-A-002, BA-003-A-001, BA-003-A-002, BA-011-A-001, BA-011-A-002, BA-012-A-001, BA-005-A-001, BA-006-A-001, BA-007-A-001, BA-008-A-001, and BA-009-A-001.
<u>Fuel.</u>	Commercial LPG or Propane.
<u>Maximum Weight.</u>	1980 lbs, or to the weight requiring a maximum continuous envelope temperature of 257°F, whichever is less. See approved Flight Manual.
<u>Allowable Envelope Temperature.</u>	1. Never exceed 261°F. 2. Maximum continuous 257°F.

<u>Minimum Crew.</u>	One (1) Pilot.
<u>Minimum Fuel Required.</u>	Two standard cylinders must be present (see also NOTE 4).
<u>Serial No's Eligible.</u>	099 onwards.

IV - Model 90B, Hot Air Balloon, Approved August 27, 1998.

<u>Envelope.</u>	Volume 90,000 cu.ft., drawing EB-090-A-001.
<u>Air Heater.</u>	Lindstrand Jetstream Series 1 Burner Assembly: Double Burner, drawing BU-002-A-001. Single Burner, drawing BU-001-A-001. Super Single Burner, drawing BU-007-A-001. Lindstrand Jetstream Series 2 Burner Assembly: Double Burner, drawings BU-008-A-001 and BU-008-A-002.
<u>Baskets.</u>	Lindstrand Baskets to drawings BA-001-A-001, BA-002-A-001, BA-002-A-002, BA-003-A-001, BA-003-A-002, BA-005-A-001, BA-006-A-001, BA-007-A-001, BA-008-A-001, and BA-009-A-001, BA-011-A-001, and BA-012-A-001.
<u>Fuel.</u>	Commercial LPG or Propane.
<u>Maximum Weight.</u>	1989 lbs, or to the weight requiring a maximum continuous envelope temperature of 257°F, whichever is less. See approved Flight Manual.
<u>Allowable Envelope Temperature.</u>	1. Never exceed 261°F. 2. Maximum continuous 257°F.
<u>Minimum Crew.</u>	One (1) Pilot.
<u>Minimum Fuel Required.</u>	Two standard cylinders must be present (see also NOTE 4).
<u>Serial No's Eligible.</u>	418 onwards.

V - Model 105B, Hot Air Balloon, Approved August 27, 1998.

<u>Envelope.</u>	Volume 105,000 cu.ft., drawing EB-105-A-001.
<u>Air Heater.</u>	Lindstrand Jetstream Series 1 Burner Assembly: Double Burner, drawing BU-002-A-001. Single Burner, drawing BU-001-A-001. Super Single Burner, drawing BU-007-A-001. Lindstrand Jetstream Series 2 Burner Assembly: Double Burner, drawings BU-008-A-001 and BU-008-A-002.
<u>Baskets.</u>	Lindstrand Baskets to drawings BA-002-A-001, BA-002-A-002, BA-003-A-001, BA-003-A-002, BA-006-A-001, BA-007-A-001, BA-008-A-001, BA-010-A-001, BA-011-A-001, and BA-012-A-001.

<u>Fuel.</u>	Commercial LPG or Propane.
<u>Maximum Weight.</u>	2320 lbs, or to the weight requiring a maximum continuous envelope temperature of 257°F, whichever is less. See approved Flight Manual.
<u>Allowable Envelope Temperature.</u>	<ol style="list-style-type: none"> 1. Never exceed 261°F. 2. Maximum continuous 257°F.
<u>Minimum Crew.</u>	One (1) Pilot.
<u>Minimum Fuel Required.</u>	Two standard cylinders must be present (see also NOTE 4).
<u>Serial No's Eligible.</u>	341 onwards.

DATA PERTINENT TO ALL MODELS.

<u>Import Requirements.</u>	A U.S. Standard Airworthiness Certificate may be issued on the basis of a Certificate of Airworthiness for Export, signed by a representative of the U.K. Civil Aviation Authority, Airworthiness Division, containing the following statement: "The balloon covered by this certificate has been examined, tested and found to conform to the type design approved under FAA Type Certificate B87EU and is in a condition for safe operation."
<u>Certification Basis.</u>	FAR 21.29 and FAR 31, dated July 1, 1964, as amended by 31-1 through 31-5 inclusive. Application for Type Certificate dated April 15, 1994.
<u>Validation Basis.</u>	Type Certificate No. B87EU was issued pursuant to FAR 21.29, in validation of the U.K. Civil Aviation Authority's certification of compliance with the aforementioned certification basis.
<u>Equipment.</u>	In addition to the basic equipment required by the certification basis, the following equipment is also required: <ol style="list-style-type: none"> 1. Two sources of ignition (striker, matches or equivalent). 2. Leather gloves or equivalent for the pilot. 3. The Approved Lindstrand Balloons Ltd Flight Manual.
<u>Maintenance and Inspection.</u>	Maintenance and inspection must be carried out in accordance with the Lindstrand Balloons Ltd. Maintenance Manual, at the current issue (date of first issue November 11, 1993).
<u>Service Information.</u>	Lindstrand Balloons Ltd. technical information (Service Bulletins), published in the English language for the U.S. Type Designs, that carry a statement "Approved by the U.K. Civil Airworthiness Authority" (U.K. CAA), may be interpreted as FAA approved.

NOTES.

<u>NOTE 1.</u>	Each hot air balloon must have an individual registration number. An individual envelope is eligible for a Standard Airworthiness Certificate when mated with any approved combination of basket and burner assembly. Change to an eligible combination must be endorsed by log book entry by the Pilot-In-Command, or by an FAA certificated repairman.
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NOTE 2. For the purpose of maintenance and inspection, operation records (log books) must be maintained with each hot air balloon envelope. If burner, basket, instruments, and/or tanks are interchanged, separate log books must be maintained for each component or group of components which are always used together. The Flight Manual must be presented to an FAA certificated repair station during annual inspections, for verification of components being inspected.

NOTE 3. Annual maintenance inspections should be carried out in accordance with the inspection schedule contained within the Lindstrand Balloons Ltd. Maintenance Manual.

NOTE 4. The approved types of fuel cylinders for all models are as follows:

Fuel Tank	Type	Capacity	Drg No./Part No.
V20	Vertical	10 gallons to 80% fill	CY-020-A-001
V30	Vertical	15 gallons to 80% fill	CY-030-A-001
V40	Vertical	21 gallons to 80% fill	CY-040-A-001
Worthington	Vertical	10 gallons to 80% fill	CY-010-A-001
T-30	Vertical	12.9 gallons to 80% fill	CY-050-A-001

NOTE 5. Due to a large degree of similarity of design, certain baskets, burners and fuel cylinders manufactured by either Cameron Balloons or Thunder & Colt, may be used in conjunction with a Lindstrand Balloons Ltd. manufactured envelope, subject to the limitations given in Section 4 of the approved Lindstrand Balloons Ltd. Flight Manual.

NOTE 6. Lindstrand Balloons has granted a license to:
 A.R.B.C. Inc. (trading as Lindstrand Balloons US)
 228 Jefferson Street
 Hanover
 IL 61041 U.S.A.

This license permits the above company (the licensee) to manufacture any hot air balloons which are included in any Federal Aviation Authority (FAA) Type Certificates issued to Lindstrand Balloons Ltd. and any associated Type Certificate Data Sheets.

All production activities to produce balloon models covered by the above Type Certificates undertaken by the licensee, will comply with the following requirements:

1. Production will be achieved using technical drawings, data, manuals, Service bulletins, and airworthiness directives supplied by Lindstrand Balloons Ltd.
2. Production will be achieved under a Production Certificate approval from the FAA.
3. Material Review Authority is granted to the licensee provided all changes are approved in writing by Lindstrand Balloons Ltd. Chief Engineer and the modifications have received the normal authority approval.
4. The production and quality control procedures comply with Lindstrand Balloons Ltd. requirements.
5. Balloons produced by the licensee will be marked with serial number sequentially beginning at the number 5000.

The certification basis for balloons produced under license is the same as the importation certification basis, that is to say FAR 31, dated 1 July 1964, as amended by 31-1 through 31-5 inclusive.

Lindstrand Balloons Ltd. undertakes to supply the licensee with all information required to achieve production, as identified above

NOTE 7.

The following instruments may be used with all hot air balloon models, as specified on this Type Certificate Data Sheet:

Flytec 3040
Flytec 3020
Ball 655
Ball M55
Ball 502
Alibi Piccolo ACT 5000
Alibi Piccolo ACT 8000
United Instruments 10-04550
United Instruments 10-05200

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