

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

|                 |
|-----------------|
| B00010CH        |
| Revision 8      |
| LINDSTRAND USA  |
| (KEMPNER)       |
| 42A 160A        |
| 56A 180A        |
| 56X 210A        |
| 60A 210S        |
| 60X 240A        |
| 69A 260A        |
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| 77A 69B         |
| 77X 77B         |
| 90A 90B         |
| 105A 105B       |
| 120A CAN-90     |
| 140A LBL BOX    |
| 150A SPHERE-105 |
| March 27, 2013  |

TYPE CERTIFICATE DATA SHEET NO. B00010CH

This data sheet, which is part of Type Certificate No. B00010CH, 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: Lindstrand Balloons USA, Inc.  
11440 Dandar Street  
Galena, IL 61036

Type Certificate Holder Record: Elisabeth A. Kempner transferred TC B00010CH to  
Lindstrand Balloons USA, Inc. on April 30, 2008

I - Model 42A, Hot Air Balloon, Approved December 20, 1999

|                                   |  |
|-----------------------------------|--|
| Envelope                          | Volume: 42,000 cu.ft., drawing EA-042-A-001.   |
| Air Heaters                       | Lindstrand Jetstream Series 1 Burner Assembly:<br>Super Single Burner, drawing BU-007-A-001.<br>Double Burner, drawing BU-002-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Double Burner, drawings BU-008-A-001 and BU-008-A-002. |
| Baskets                           | Lindstrand Baskets to drawings BA-001-A-001, BA-004-A-001, BA-005-A-001, BA-006-A-001,<br>and BA-009-A-001.  |
| Fuel                              | Commercial LPG or Propane.   |
| Maximum Weight                    | 924 lbs, or to the weight requiring a maximum continuous envelope temperature of 257°F,<br>whichever is less. See approved Balloon Flight Manual.  |
| Allowable Envelope<br>Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F.  |
| Minimum Crew                      | One (1) Pilot.   |
| Fuel Capacity                     | Two standard cylinders must be present (see also NOTE 6).  |
| Serial Nos.<br>Eligible           | 5135 and up.   |

II - Model 56A, Hot Air Balloon, Approved December 20, 1999

|             |  |
|-------------|--|
| Envelope    | Volume: 56,000 cu.ft, drawing EA-056-A-001.  |
| Air Heaters | Lindstrand Jetstream Series 1 Burner Assembly:<br>Super Single Burner, drawing BU-007-A-001.<br>Double Burner, drawing BU-002-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Double Burner, drawings BU-008-A-001 and BU-008-A-002. |

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|                                |   |
|--------------------------------|---|
| Baskets                        | Lindstrand Baskets to drawings BA-001-A-001, BA-002-A-001, BA-002-A-002, BA-005-A-001, BA-006-A-001, BA-007-A-001, and BA-009-A-001.                          |
| Fuel                           | Commercial LPG or Propane.  |
| Maximum Weight                 | 1232 lbs, or to the weight requiring a maximum continuous envelope temperature of 257 °F, whichever is less. See approved Balloon Flight Manual.              |
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F. |
| Minimum Crew                   | One (1) Pilot.  |
| Fuel Capacity                  | Two standard cylinders must be present (see also NOTE 6).   |
| Serial Nos. Eligible           | 5135 and up.  |

III - Model 60A, Hot Air Balloon, Approved December 20, 1999

|                                |  |
|--------------------------------|--|
| Envelope                       | Volume: 60,000 cu.ft., drawing EA-060-A-001.   |
| Air Heaters                    | Lindstrand Jetstream Series 1 Burner Assembly:<br>Super Single Burner, drawing BU-007-A-001.<br>Double Burner, drawing BU-002-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Double Burner, drawings BU-008-A-001 and BU-008-A-002. |
| Baskets                        | 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, and BA-009-A-001.   |
| Fuel                           | Commercial LPG or Propane.   |
| Maximum Weight                 | 1320 lbs, or to the weight requiring a maximum continuous envelope temperature of 257 °F, whichever is less. See approved Balloon Flight Manual.   |
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F.  |
| Minimum Crew                   | One (1) Pilot.   |
| Fuel Capacity                  | Two standard cylinders must be present (see also NOTE 6).  |
| Serial Nos. Eligible           | 5135 and up.   |

IV - Model 69A, Hot Air Balloon, Approved December 20, 1999

|                                |  |
|--------------------------------|--|
| Envelope                       | Volume: 69,000 cu.ft., drawing EA-069-A-001.   |
| Air Heaters                    | Lindstrand Jetstream Series 1 Burner Assembly:<br>Super Single Burner, drawing BU-007-A-001.<br>Double Burner, drawing BU-002-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Double Burner, drawings BU-008-A-001 and BU-008-A-002. |
| Baskets                        | 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, and BA-009-A-001.   |
| Fuel                           | Commercial LPG or Propane.   |
| Maximum Weight                 | 1518 lbs, or to the weight requiring a maximum continuous envelope temperature of 257 °F, whichever is less. See approved Balloon Flight Manual.   |
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F.  |

|                         |   |
|-------------------------|---|
| Minimum Crew            | One (1) Pilot.  |
| Fuel Capacity           | Two standard cylinders must be present (see also NOTE 6). |
| Serial Nos.<br>Eligible | 5135 and up.  |

V - Model 77A, Hot Air Balloon, Approved December 20, 1999

|                                |  |
|--------------------------------|--|
| Envelope                       | Volume: 77,000 cu.ft., drawing EA-077-A-001.   |
| Air Heaters                    | Lindstrand Jetstream Series 1 Burner Assembly:<br>Super Single Burner, drawing BU-007-A-001.<br>Double Burner, drawing BU-002-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Double Burner, drawings BU-008-A-001 and BU-008-A-002. |
| Baskets                        | 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.   |
| Fuel                           | Commercial LPG or Propane.   |
| Maximum Weight                 | 1694 lbs, or to the weight requiring a maximum continuous envelope temperature of 257°F, whichever is less. See approved Balloon Flight Manual.  |
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F.  |
| Minimum Crew                   | One (1) Pilot.   |
| Fuel Capacity                  | Two standard cylinders must be present (see also NOTE 6).  |
| Serial Nos.<br>Eligible        | 5135 and up.   |

VI - Model 90A, Hot Air Balloon, Approved December 20, 1999

|                                |  |
|--------------------------------|--|
| Envelope                       | Volume: 90,000 cu.ft., drawing EA-090-A-001.   |
| Air Heaters                    | Lindstrand Jetstream Series 1 Burner Assembly:<br>Super Single Burner, drawing BU-007-A-001.<br>Double Burner, drawing BU-002-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Double Burner, drawings BU-008-A-001 and BU-008-A-002. |
| Baskets                        | 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, BA-009-A-001, BA-011-A-001, BA-011-A-002, and BA-012-A-001.                         |
| Fuel                           | Commercial LPG or Propane.   |
| Maximum Weight                 | 1980 lbs, or to the weight requiring a maximum continuous envelope temperature of 257°F, whichever is less. See approved Balloon Flight Manual.  |
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F.  |
| Minimum Crew                   | One (1) Pilot.   |
| Fuel Capacity                  | Two standard cylinders must be present (see also NOTE 6).  |
| Serial Nos.<br>Eligible        | 5135 and up.   |

VII - Model 105A, Hot Air Balloon, Approved December 20, 1999

|                                |  |
|--------------------------------|--|
| Envelope                       | Volume: 105,000 cu.ft., drawing EA-105-A-001.  |
| Air Heaters                    | Lindstrand Jetstream Series 1 Burner Assembly:<br>Double Burner, drawing BU-002-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Double Burner, drawings BU-008-A-001 and BU-008-A-002. |
| Baskets                        | 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, BA-011-A-002, and BA-012-A-001.       |
| Fuel                           | Commercial LPG or Propane.   |
| Maximum Weight                 | 2310 lbs, or to the weight requiring a maximum continuous envelope temperature of 257°F, whichever is less. See approved Balloon Flight Manual.  |
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F.                                      |
| Minimum Crew                   | One (1) Pilot.   |
| Fuel Capacity                  | Two standard cylinders must be present (see also NOTE 6).  |
| Serial Nos. Eligible           | 5135 and up.   |

VIII - Model 120A, Hot Air Balloon, Approved December 20, 1999

|                                |  |
|--------------------------------|--|
| Envelope                       | Volume: 120,000 cu.ft., drawing EA-120-A-001.  |
| Air Heaters                    | Lindstrand Jetstream Series 1 Burner Assembly:<br>Double Burner, drawing BU-002-A-001.<br>Triple Burner, drawing BU-004-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Double Burner, drawings BU-008-A-001 and BU-008-A-002.<br>Triple Burner, drawings BU-010-A-001, BU-010-A-002, and BU-010-A-003.<br>Quad Burner, drawings BU-012-A-001, BU-012-A-002, and BU-012-A-003. |
| Baskets                        | Lindstrand Baskets to drawings BA-003-A-001, BA-003-A-002, BA-008-A-001, BA-010-A-001, BA-011-A-001, BA-011-A-002, BA-012-A-001, BA-013-A-001, BA-014-A-001, BA-015-A-001, BA-034-A-001, BA-035-A-001, and BA-040-A-001.   |
| Fuel                           | Commercial LPG or Propane.   |
| Maximum Weight                 | 2640 lbs, or to the weight requiring a maximum continuous envelope temperature of 257°F, whichever is less. See approved Balloon Flight Manual.  |
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F.  |
| Minimum Crew                   | One (1) Pilot.   |
| Fuel Capacity                  | Two standard cylinders must be present (see also NOTE 6).  |
| Serial Nos. Eligible           | 5135 and up.   |

IX - Model 150A, Hot Air Balloon, Approved December 20, 1999

|                                |  |
|--------------------------------|--|
| Envelope                       | Volume: 150,000 cu.ft., drawing EA-150-A-001.  |
| Air Heaters                    | Lindstrand Jetstream Series 1 Burner Assembly:<br>Double Burner, drawing BU-002-A-001.<br>Triple Burner, drawing BU-004-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Double Burner, drawings BU-008-A-001 and BU-008-A-002.<br>Triple Burner, drawings BU-010-A-001, BU-010-A-002, and BU-010-A-003.<br>Quad Burner, drawings BU-012-A-001, BU-012-A-002, and BU-012-A-003. |
| Baskets                        | Lindstrand Baskets to drawings BA-011-A-001, BA-011-A-002, BA-012-A-001, BA-013-A-001, BA-014-A-001, BA-015-A-001, BA-020-A-001, BA-031-A-001, BA-034-A-001, BA-035-A-001, and BA-040-A-001.   |
| Fuel                           | Commercial LPG or Propane.   |
| Maximum Weight                 | 3190 lbs, or to the weight requiring a maximum continuous envelope temperature of 257°F, whichever is less. See approved Balloon Flight Manual.  |
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F.  |
| Minimum Crew                   | One (1) Pilot.   |
| Fuel Capacity                  | Two standard cylinders must be present (see also NOTE 6).  |
| Serial Nos. Eligible           | 5135 and up.   |

X - Model 180A, Hot Air Balloon, Approved December 20, 1999

|                                |  |
|--------------------------------|--|
| Envelope                       | Volume: 180,000 cu.ft., drawing EA-180-A-001.  |
| Air Heaters                    | Lindstrand Jetstream Series 1 Burner Assembly:<br>Double Burner, drawing BU-002-A-001.<br>Triple Burner, drawing BU-004-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Double Burner, drawing BU-008-A-001, BU-008-A-002.<br>Triple Burner, drawings BU-010-A-001, BU-010-A-002, and BU-010-A-003.<br>Quad Burner, drawings BU-012-A-001, BU-012-A-002, and BU-012-A-003. |
| Baskets                        | Lindstrand Baskets to drawings BA-013-A-001, BA-014-A-001, BA-015-A-001, BA-020-A-001, BA-021-A-001, BA-022-A-001, BA-023-A-001, BA-024-A-001, BA-025-A-001, BA-028-A-001, BA-030-A-001, BA-031-A-001, BA-032-A-001, BA-033-A-001, BA-034-A-001, BA-035-A-001, BA-036-A-001, BA-037-A-001, BA-038-A-001, and BA-040-A-001.   |
| Fuel                           | Commercial LPG or Propane.   |
| Maximum Weight                 | 3586 lbs, or to the weight requiring a maximum continuous envelope temperature of 257°F, whichever is less. See approved Balloon Flight Manual.  |
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F.  |
| Minimum Crew                   | One (1) Pilot.   |
| Fuel Capacity                  | Two standard cylinders must be present (see also NOTE 6).  |
| Serial Nos. Eligible           | 5135 and up.   |

XI - Model 210A, Hot Air Balloon, Approved December 20, 1999

|                                |  |
|--------------------------------|--|
| Envelope                       | Volume: 210,000 cu.ft., drawing EA-210-A-001.  |
| Air Heaters                    | Lindstrand Jetstream Series 1 Burner Assembly:<br>Double Burner, drawing BU-002-A-001.<br>Triple Burner, drawing BU-004-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Double Burner, drawing BU-008-A-001, BU-008-A-002.<br>Triple Burner, drawings BU-010-A-001, BU-010-A-002, and BU-010-A-003.<br>Quad Burner, drawings BU-012-A-001, BU-012-A-002, and BU-012-A-003. |
| Baskets                        | Lindstrand Baskets to drawings BA-015-A-001, BA-020-A-001, BA-021-A-001, BA-022-A-001, BA-023-A-001, BA-024-A-001, BA-025-A-001, BA-026-A-001, BA-028-A-001, BA-030-A-001, BA-031-A-001, BA-032-A-001, BA-033-A-001, BA-034-A-001, BA-035-A-001, BA-036-A-001, BA-037-A-001, BA-038-A-001, and BA-040-A-001.   |
| Fuel                           | Commercial LPG or Propane.   |
| Maximum Weight                 | 4180 lbs, or to the weight requiring a maximum continuous envelope temperature of 257 °F, whichever is less. See approved Balloon Flight Manual.   |
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F.  |
| Minimum Crew                   | One (1) Pilot.   |
| Fuel Capacity                  | Two standard cylinders must be present (see also NOTE 6).  |
| Serial Nos. Eligible           | 5135 and up.   |

XII - Model 240A, Hot Air Balloon, Approved December 20, 1999

|                                |  |
|--------------------------------|--|
| Envelope                       | Volume: 240,000 cu.ft., drawing EA-240-A-001.  |
| Air Heaters                    | Lindstrand Jetstream Series 1 Burner Assembly:<br>Triple Burner, drawing BU-004-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Triple Burner, drawings BU-010-A-001, BU-010-A-002, and BU-010-A-003.<br>Quad Burner, drawings BU-012-A-001, BU-012-A-002, and BU-012-A-003. |
| Baskets                        | Lindstrand Baskets to drawings BA-021-A-001, BA-022-A-001, BA-023-A-001, BA-024-A-001, BA-025-A-001, BA-026-A-001, BA-028-A-001, BA-030-A-001, BA-031-A-001, BA-032-A-001, BA-033-A-001, BA-034-A-001, BA-035-A-001, BA-036-A-001, and BA-037-A-001.                                     |
| Fuel                           | Commercial LPG or Propane.   |
| Maximum Weight                 | 4268 lbs, or to the weight requiring a maximum continuous envelope temperature of 257 °F, whichever is less. See approved Balloon Flight Manual.   |
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F.  |
| Minimum Crew                   | One (1) Pilot.   |
| Fuel Capacity                  | Two standard cylinders must be present (see also NOTE 6).  |
| Serial Nos. Eligible           | 5135 and up.   |

XIII - Model 260A, Hot Air Balloon, Approved December 20, 1999

|                                |  |
|--------------------------------|--|
| Envelope                       | Volume: 260,000 cu.ft., drawing EA-260-A-001.  |
| Air Heaters                    | Lindstrand Jetstream Series 1 Burner Assembly:<br>Triple Burner, drawing BU-004-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Triple Burner, drawings BU-010-A-001, BU-010-A-002, and BU-010-A-003.<br>Quad Burner, drawings BU-012-A-001, BU-012-A-002, and BU-012-A-003. |
| Baskets                        | Lindstrand Baskets to drawings BA-022-A-001, BA-023-A-001, BA-024-A-001, BA-025-A-001, BA-026-A-001, BA-028-A-001, BA-030-A-001, BA-031-A-001, BA-032-A-001, BA-033-A-001, BA-036-A-001, and BA-037-A-001.   |
| Fuel                           | Commercial LPG or Propane.   |
| Maximum Weight                 | 4994 lbs, or to the weight requiring a maximum continuous envelope temperature of 257°F, whichever is less. See approved Balloon Flight Manual.  |
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F.  |
| Minimum Crew                   | One (1) Pilot.   |
| Fuel Capacity                  | Two standard cylinders must be present (see also NOTE 6).  |
| Serial Nos. Eligible           | 5135 and up.   |

XIV - Model 310A, Hot Air Balloon, Approved December 20, 1999

|                                |  |
|--------------------------------|--|
| Envelope                       | Volume: 310,000 cu.ft., drawing EA-310-A-001.  |
| Air Heaters                    | Lindstrand Jetstream Series 2 Burner Assembly:<br>Triple Burner, drawings BU-010-A-001, BU-010-A-002, and BU-010-A-003.<br>Quad Burner, drawings BU-012-A-001, BU-012-A-002, and BU-012-A-003.             |
| Baskets                        | Lindstrand Baskets to drawings BA-022-A-001, BA-024-A-001, BA-025-A-001, BA-026-A-001, BA-027-A-001, BA-028-A-001, BA-030-A-001, BA-031-A-001, BA-032-A-001, BA-033-A-001, BA-036-A-001, and BA-037-A-001. |
| Fuel                           | Commercial LPG or Propane.   |
| Maximum Weight                 | 5940 lbs, or to the weight requiring a maximum continuous envelope temperature of 257°F, whichever is less. See approved Balloon Flight Manual.  |
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F.  |
| Minimum Crew                   | One (1) Pilot.   |
| Fuel Capacity                  | Two standard cylinders must be present (see also NOTE 6).  |
| Serial Nos. Eligible           | 5135 and up.   |

XV - Model 69B, Hot Air Balloon, Approved December 20, 1999

|             |  |
|-------------|--|
| Envelope    | Volume: 69,000 cu.ft., drawing EB-069-A-001.   |
| Air Heaters | Lindstrand Jetstream Series 1 Burner Assembly:<br>Super Single Burner, drawing BU-007-A-001.<br>Double Burner, drawing BU-002-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Double Burner, drawings BU-008-A-001 and BU-008-A-002. |

|                                |  |
|--------------------------------|--|
| Baskets                        | 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, and BA-009-A-001. |
| Fuel                           | Commercial LPG or Propane.   |
| Maximum Weight                 | 1518 lbs, or to the weight requiring a maximum continuous envelope temperature of 257 °F, whichever is less. See approved Balloon Flight Manual.                 |
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F.    |
| Minimum Crew                   | One (1) Pilot.   |
| Fuel Capacity                  | Two standard cylinders must be present (see also NOTE 6).  |
| Serial Nos. Eligible           | 5135 and up.   |

XVI - Model 77B, Hot Air Balloon, Approved December 20, 1999

|                                |  |
|--------------------------------|--|
| Envelope                       | Volume: 77,000 cu.ft., drawing EB-077-A-001.   |
| Air Heaters                    | Lindstrand Jetstream Series 1 Burner Assembly:<br>Super Single Burner, drawing BU-007-A-001.<br>Double Burner, drawing BU-002-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Double Burner, drawings BU-008-A-001 and BU-008-A-002. |
| Baskets                        | 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.   |
| Fuel                           | Commercial LPG or Propane.   |
| Maximum Weight                 | 1694 lbs, or to the weight requiring a maximum continuous envelope temperature of 257 °F, whichever is less. See approved Balloon Flight Manual.   |
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F.  |
| Minimum Crew                   | One (1) Pilot.   |
| Fuel Capacity                  | Two standard cylinders must be present (see also NOTE 6).  |
| Serial Nos. Eligible           | 5135 and up.   |

XVII - Model 90B, Hot Air Balloon, Approved December 20, 1999

|                |  |
|----------------|--|
| Envelope       | Volume: 90,000 cu.ft., drawing EB-090-A-001.   |
| Air Heaters    | Lindstrand Jetstream Series 1 Burner Assembly:<br>Super Single Burner, drawing BU-007-A-001.<br>Double Burner, drawing BU-002-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Double Burner, drawings BU-008-A-001 and BU-008-A-002. |
| Baskets        | 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, BA-009-A-001, BA-011-A-001, and BA-012-A-001.                                       |
| Fuel           | Commercial LPG or Propane.   |
| Maximum Weight | 1989 lbs, or to the weight requiring a maximum continuous envelope temperature of 257 °F, whichever is less. See approved Balloon Flight Manual.   |

|                                |   |
|--------------------------------|---|
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F. |
| Minimum Crew                   | One (1) Pilot.  |
| Fuel Capacity                  | Two standard cylinders must be present (see also NOTE 6).   |
| Serial Nos. Eligible           | 5135 and up.  |

XVIII - Model 105B, Hot Air Balloon, Approved December 20, 1999

|                                |  |
|--------------------------------|--|
| Envelope                       | Volume: 105,000 cu.ft., drawing EB-105-A-001.  |
| Air Heaters                    | Lindstrand Jetstream Series 1 Burner Assembly:<br>Super Single Burner, drawing BU-007-A-001.<br>Double Burner, drawing BU-002-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Double Burner, drawings BU-008-A-001 and BU-008-A-002. |
| Baskets                        | 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.   |
| Fuel                           | Commercial LPG or Propane.   |
| Maximum Weight                 | 2310 lbs, or to the weight requiring a maximum continuous envelope temperature of 257°F, whichever is less. See approved Balloon Flight Manual.  |
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F.  |
| Minimum Crew                   | One (1) Pilot.   |
| Fuel Capacity                  | Two standard cylinders must be present (see also NOTE 6).  |
| Serial Nos. Eligible           | 5135 and up.   |

XIX - Model CAN-90, Hot Air Balloon, Approved December 20, 1999

|                                |  |
|--------------------------------|--|
| Envelope                       | Volume: 90,000 cu.ft., drawing SS-009-A-001.   |
| Air Heaters                    | Lindstrand Jetstream Series 1 Burner Assembly:<br>Super Single Burner, drawing BU-007-A-001.<br>Double Burner, drawing BU-002-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Double Burner, drawings BU-008-A-001 and BU-008-A-002. |
| Baskets                        | 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, BA-009-A-001, BA-011-A-001, BA-011-A-002, and BA-012-A-001.                         |
| Fuel                           | Commercial LPG or Propane.   |
| Maximum Weight                 | 1980 lbs, or to the weight requiring a maximum continuous envelope temperature of 257°F, whichever is less. See approved Balloon Flight Manual.  |
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F.  |
| Minimum Crew                   | One (1) Pilot.   |

Fuel Capacity Two standard cylinders must be present (see also NOTE 6).

Serial Nos.  
Eligible 5135 and up.

XX - Model SPHERE-105, Hot Air Balloon, Approved May 8, 2001

Envelope Volume: 105,000 cu.ft., drawing SS-023-A-001.

Air Heaters Lindstrand Jetstream Series 1 Burner Assembly:  
Double Burner, drawing BU-002-A-001.  
Lindstrand Jetstream Series 2 Burner Assembly:  
Double Burner, drawings BU-008-A-001 and BU-008-A-002.

Baskets Lindstrand Baskets to drawings 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-011-A-002.

Fuel Commercial LPG or Propane.

Maximum Weight 2310 lbs, or to the weight requiring a maximum continuous envelope temperature of 257°F, whichever is less. See approved 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: 257°F. to 275°F.  
3. Maximum continuous: 257°F.

Minimum Crew One (1) Pilot.

Fuel Capacity Two standard cylinders must be present (see also NOTE 6).

Serial Nos.  
Eligible 5167 and up.

XXI - Model 210S, Hot Air Balloon, Approved August 30, 2002

Envelope Volume: 210,000 cu.ft., drawing ES-210-A-001.

Air Heaters Lindstrand Jetstream Series 1 Burner Assembly:  
Double Burner, drawing BU-002-A-001.  
Triple Burner, drawing BU-004-A-001.  
Lindstrand Jetstream Series 2 Burner Assembly:  
Double Burner, drawing BU-008-A-001, BU-008-A-002.  
Triple Burner, drawings BU-010-A-001, BU-010-A-002, and BU-010-A-003.  
Quad Burner, drawings BU-012-A-001, BU-012-A-002, and BU-012-A-003.

Baskets Lindstrand Baskets to drawings BA-015-A-001, BA-020-A-001, BA-021-A-001, BA-022-A-001, BA-023-A-001, BA-024-A-001, BA-025-A-001, BA-026-A-001, BA-028-A-001, BA-030-A-001, BA-031-A-001, BA-032-A-001, BA-033-A-001, BA-034-A-001, BA-035-A-001, BA-036-A-001, BA-037-A-001, BA-038-A-001, and BA-040-A-001.

Fuel Commercial LPG or Propane.

Maximum Weight 4180 lbs, or to the weight requiring a maximum continuous envelope temperature of 257°F, whichever is less. See approved 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: 257°F. to 275°F.  
3. Maximum continuous: 257°F.

Minimum Crew One (1) Pilot.

Fuel Capacity Two standard cylinders must be present (see also NOTE 6).

Serial Nos.  
Eligible 5211 and up.

XXII - Model 60X, Hot Air Balloon, Approved June 11, 2003

|                                |  |
|--------------------------------|--|
| Envelope                       | Volume: 60,000 cu.ft., drawing EX-60-A-001.  |
| Air Heaters                    | Lindstrand Jetstream Series 1 Burner Assembly:<br>Super Single Burner, drawing BU-007-A-001.<br>Double Burner, drawing BU-002-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Double Burner, drawings BU-008-A-001 and BU-008-A-002. |
| Baskets                        | 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, and BA-009-A-001.   |
| Fuel                           | Commercial LPG or Propane.   |
| Maximum Weight                 | 1320 lbs, or to the weight requiring a maximum continuous envelope temperature of 257 °F, whichever is less. See approved Balloon Flight Manual.   |
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F.  |
| Minimum Crew                   | One (1) Pilot.   |
| Fuel Capacity                  | Two standard cylinders must be present (see also NOTE 6).  |
| Serial Nos. Eligible           | 5233 and up.   |

XXIII - Model 56X, Hot Air Balloon, Approved September 30, 2004

|                                |  |
|--------------------------------|--|
| Envelope                       | Volume: 56,000 cu.ft., drawing EX-56-A-001.  |
| Air Heaters                    | Lindstrand Jetstream Series 1 Burner Assembly:<br>Super Single Burner, drawing BU-007-A-001.<br>Double Burner, drawing BU-002-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Double Burner, drawings BU-008-A-001 and BU-008-A-002. |
| Baskets                        | 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, and BA-009-A-001.   |
| Fuel                           | Commercial LPG or Propane.   |
| Maximum Weight                 | 1232 lbs, or to the weight requiring a maximum continuous envelope temperature of 257 °F, whichever is less. See approved Balloon Flight Manual.   |
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F.  |
| Minimum Crew                   | One (1) Pilot.   |
| Fuel Capacity                  | Two standard cylinders must be present (see also NOTE 6).  |
| Serial Nos. Eligible           | 5281 and up.   |

XXIV - Model 69X, Hot Air Balloon, Approved September 30, 2004

|             |  |
|-------------|--|
| Envelope    | Volume: 69,000 cu.ft., drawing EX-69-A-001.  |
| Air Heaters | Lindstrand Jetstream Series 1 Burner Assembly:<br>Super Single Burner, drawing BU-007-A-001.<br>Double Burner, drawing BU-002-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Double Burner, drawings BU-008-A-001 and BU-008-A-002. |
| Baskets     | 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, and BA-009-A-001.   |

|                                |   |
|--------------------------------|---|
| Fuel                           | Commercial LPG or Propane.  |
| Maximum Weight                 | 1518 lbs, or to the weight requiring a maximum continuous envelope temperature of 257 °F, whichever is less. See approved Balloon Flight Manual.              |
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F. |
| Minimum Crew                   | One (1) Pilot.  |
| Fuel Capacity                  | Two standard cylinders must be present (see also NOTE 6).   |
| Serial Nos. Eligible           | 5281 and up.  |

XXV - Model LBL BOX, Hot Air Balloon, Approved July 18, 2006

|                                |  |
|--------------------------------|--|
| Envelope                       | Volume: 120,000 cu.ft., drawing SS-029-A-010.  |
| Air Heaters                    | Lindstrand Jetstream Series 1 Burner Assembly:<br>Double Burner, drawing BU-002-A-001.<br>Triple Burner, drawing BU-004-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Double Burner, drawings BU-008-A-001 and BU-008-A-002.<br>Triple Burner, drawings BU-010-A-001, BU-010-A-002, and BU-010-A-003.<br>Quad Burner, drawings BU-012-A-001, BU-012-A-002, and BU-012-A-003. |
| Baskets                        | Lindstrand Baskets to drawings BA-003-A-001, BA-003-A-002, BA-007-A-001, BA-008-A-001, BA-010-A-001, BA-011-A-001, BA-011-A-002, BA-012-A-001, BA-013-A-001, BA-014-A-001, BA-015-A-001, BA-034-A-001, BA-035-A-001, and BA-040-A-001.   |
| Fuel                           | Commercial LPG or Propane.   |
| Maximum Weight                 | 2640 lbs, or to the weight requiring a maximum continuous envelope temperature of 257 °F, whichever is less. See approved Balloon Flight Manual.   |
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F.  |
| Minimum Crew                   | One (1) Pilot.   |
| Fuel Capacity                  | Two standard cylinders must be present (see also NOTE 6).  |
| Serial Nos. Eligible           | 5300 and up.   |

XXVI - Model 160A, Hot Air Balloon, Approved August 10, 2012

|                |  |
|----------------|--|
| Envelope       | Volume: 160,000 cu.ft., drawing EA-160-A-001.  |
| Air Heaters    | Lindstrand Jetstream Series 1 Burner Assembly:<br>Double Burner, drawing BU-002-A-001.<br>Triple Burner, drawing BU-004-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Double Burner, drawings BU-008-A-001 and BU-008-A-002.<br>Triple Burner, drawings BU-010-A-001, BU-010-A-002, and BU-010-A-003.<br>Quad Burner, drawings BU-012-A-001, BU-012-A-002, and BU-012-A-003. |
| Baskets        | Lindstrand Baskets to drawings BA-011-A-001, BA-011-A-002, BA-012-A-001, BA-013-A-001, BA-014-A-001, BA-015-A-001, BA-020-A-001, BA-031-A-001, BA-034-A-001, BA-035-A-001, BA-036-A-001, and BA-040-A-001.   |
| Fuel           | Commercial LPG or Propane.   |
| Maximum Weight | 3520 lbs, or to the weight requiring a maximum continuous envelope temperature of 257 °F, whichever is less. See approved Balloon Flight Manual.   |

|                                |   |
|--------------------------------|---|
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F. |
| Minimum Crew                   | One (1) Pilot.  |
| Fuel Capacity                  | Two standard cylinders must be present (see also NOTE 6).   |
| Serial Nos. Eligible           | 5518 and up.  |

XXVII - Model 140A, Hot Air Balloon, Approved March 1, 2013

|                                |  |
|--------------------------------|--|
| Envelope                       | Volume: 140,000 cu.ft., drawing EA-140-A-001.  |
| Air Heaters                    | Lindstrand Jetstream Series 1 Burner Assembly:<br>Double Burner, drawing BU-002-A-001.<br>Triple Burner, drawing BU-004-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Double Burner, drawings BU-008-A-001 and BU-008-A-002.<br>Triple Burner, drawings BU-010-A-001, BU-010-A-002, and BU-010-A-003.<br>Quad Burner, drawings BU-012-A-001, BU-012-A-002, and BU-012-A-003. |
| Baskets                        | Lindstrand Baskets to drawings BA-011-A-001, BA-011-A-002, BA-012-A-001, BA-013-A-001, BA-014-A-001, BA-015-A-001, BA-034-A-001, BA-035-A-001, and BA-040-A-001.   |
| Fuel                           | Commercial LPG or Propane.   |
| Maximum Weight                 | 3086 lbs, or to the weight requiring a maximum continuous envelope temperature of 257 °F, whichever is less. See approved Balloon Flight Manual.   |
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F.  |
| Minimum Crew                   | One (1) Pilot.   |
| Fuel Capacity                  | Two standard cylinders must be present (see also NOTE 6).  |
| Serial Nos. Eligible           | 5528 and up.   |

XXVIII - Model 77X, Hot Air Balloon, Approved March 27, 2013

|                                |  |
|--------------------------------|--|
| Envelope                       | Volume: 77,000 cu.ft., drawing EX-77-A-001.  |
| Air Heaters                    | Lindstrand Jetstream Series 1 Burner Assembly:<br>Super Single Burner, drawing BU-007-A-001.<br>Double Burner, drawing BU-002-A-001.<br>Lindstrand Jetstream Series 2 Burner Assembly:<br>Double Burner, drawings BU-008-A-001 and BU-008-A-002. |
| Baskets                        | 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.   |
| Fuel                           | Commercial LPG or Propane.   |
| Maximum Weight                 | 1694 lbs, or to the weight requiring a maximum continuous envelope temperature of 257 °F, whichever is less. See approved Balloon Flight Manual.   |
| Allowable Envelope Temperature | 1. Never exceed: 275°F.<br>2. For no longer than 10 minutes continuous or 10 minutes per 2 hours of flight: 257°F. to 275°F.<br>3. Maximum continuous: 257°F.  |
| Minimum Crew                   | One (1) Pilot.   |

|                      |   |
|----------------------|---|
| Fuel Capacity        | Two standard cylinders must be present (see also NOTE 6). |
| Serial Nos. Eligible | 5532 and up.  |

Data Pertinent to All Models

|                            |   |
|----------------------------|---|
| Certification Basis        | Part 31 of the Federal Aviation Regulations dated July 1, 1964, as amended by 31-1 through 31-6. Application for Type Certificate dated April 24, 1996. Type Certificate No. B00010CH issued December 20, 1999.   |
| Production Basis           | A.R.B.C., Inc. dba Lindstrand Balloons USA Production Certificate No. 336CE, all serial numbers.  |
| Equipment                  | In addition to the basic equipment required by the Certification Basis, the following equipment is also required:<br><br>(1) Fire extinguisher rated at least 1A:10BC<br>(2) Two sources of ignition (striker, matches or equivalent).<br>(3) Leather gloves or equivalent for the pilot.<br>(4) FAA Approved Balloon Flight Manual dated December 20, 1999 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 Lindstrand Balloons USA Instructions for Continued Airworthiness (original date of issuance: November 20, 1998).  |

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 and burner assembly. Change to an eligible combination must be endorsed by logbook entry by the Pilot-in-Command or by a FAA Certificated Repairman.

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. The Flight Manual must be presented to an FAA Certificated Repair Station during annual inspections for verification of components being inspected.

NOTE 6. The approved types of fuel cylinders for all models are as follows:

| <u>Fuel Tank</u> | <u>Type</u> | <u>Capacity</u>          | <u>Part No.</u> |
|------------------|-------------|--------------------------|-----------------|
| 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    |
| T30              | Vertical    | 12.9 gallons to 80% fill | CY-050-A-001    |

NOTE 7. 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 USA manufactured envelope, subject to the limitations given in Section 4 of the approved Lindstrand Balloons USA Flight Manual.

NOTE 8. The following instruments may be used with all hot air balloon models, as specified on this Type Certificate Data Sheet:

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

-- END --