

## TYPE CERTIFICATE

Number: VL505 Issue 2

This certificate, issued to Kavanagh Investment Trust, certifies that, pursuant to Regulation 21.13A of the Civil Aviation Regulations 1998, approval is granted for the following aircraft:

Model C-56 Hot Air Balloon Model C-65 Hot Air Balloon Model C-77 Hot Air Balloon

This certificate is valid until suspended or cancelled by the Civil Aviation Safety Authority. The basis of certification is as prescribed in Type Certificate Data Sheet Number VL505 issued by this Authority.

Date of application:

24 January 2005

Date of issuance:

11 April 2008

Dinh Nguyen

Delegate of the Authority

Safe Skies for All

Number: VL505

Revision: 1

Aircraft: Kavanagh

C-56 C-65 C-77

Date:

18 March 2008

## TYPE CERTIFICATE DATA SHEET

This data sheet, which is part of the Type Certificate No.VL505, lists the conditions and limitations under which the aircraft for which the Type Certificate was issued meets the airworthiness requirements of the Civil Aviation Safety Authority.

Type Certificate Holder:

Kavanagh Investment Trust

PO Box 53

Mount Kuring-Gai,

NSW, 2080 Australia

1. Model C-56

Hot Air Balloon (Manned Free Balloon Category)

Approved 20 May 2005.

Envelope:

Kavanagh envelope, drawing KAV-C-20-001.

Volume:

1586 cubic metres.

Air Heaters:

Kavanagh Series 1, single or double burner Kavanagh Series 2, single or double burner Kavanagh Series 3, single or double burner

Basket:

Kavanagh basket options as shown in drawing KAV-GEN-30-

001 or KAV-GEN-30-002.

Fuel:

Commercial LPG or propane.

Maximum weight:

Gross weight limited to 550 kg, or to highest weight allowed by

the loading system in Section 5 of the Kavanagh Hot Air

Balloon Flight Manual, whichever is less.

Maximum envelope

temperature:

120 degrees Celsius.

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TCDS No.:VL505

Revision 1

Minimum crew:

One pilot.

Fuel capacity:

see Note 1.

Serial Nos. Eligible:

C56-164. (this is the only C-56 made under this TC)

2. Model C-65

Hot Air Balloon (Manned Free Balloon Category)

Approved 20 May 2005.

Envelope:

Kavanagh envelope, drawing KAV-C-20-001.

Volume:

1841 cubic metres.

Air Heaters:

Kavanagh Series 1, single or double burner Kavanagh Series 2, single or double burner

Kavanagh Series 3, single or double burner

Basket:

Kavanagh basket options as shown in drawing KAV-GEN-30-

001 or KAV-GEN-30-002.

Fuel:

Commercial LPG or propane.

Maximum weight:

Gross weight limited to 635 kg, or to highest weight allowed by

the loading system in Section 5 of the Kavanagh Hot Air

Balloon Flight Manual, whichever is less.

Maximum envelope

temperature:

120 degrees Celsius.

Minimum crew:

One pilot.

Fuel capacity:

see Note 1.

Serial Nos. Eligible:

C65-292 to C65-335 inclusive.

3. Model C-77

Hot Air Balloon (Manned Free Balloon Category)

Approved 20 May 2005.

Envelope:

Kavanagh envelope, drawing KAV-C-20-001.

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Volume:

2195 cubic metres.

Air Heaters:

Kavanagh Series 1, single or double burner Kavanagh Series 2, single or double burner Kavanagh Series 3, single or double burner

Basket:

Kavanagh basket options as shown in drawing KAV-GEN-30-

001 or KAV-GEN-30-002.

Fuel:

Commercial LPG or propane.

Maximum weight:

Gross weight limited to 760 kg, or to highest weight allowed by the loading system in Section 5 of the Kavanagh Hot Air

Balloon Flight Manual, whichever is less.

Maximum envelope

temperature:

120 degrees Celsius.

Minimum crew:

One pilot.

Fuel capacity:

see Note 1.

Serial Nos. Eligible:

None (There have been no C-77 balloons made under this TC)

## Data pertinent to all models

**Production Basis:** 

Production Certificate No. 049101.

Certification basis:

CASR 31, dated 1st October 1998, CAO 101.54 at amendment

102 with the applicant electing to use BCAR 31, Issue 2, dated

12<sup>th</sup> May 2003.

Drawing list

Sealed Drawing List No. C-4 applicable to Type C Kavanagh

Balloons, dated 20<sup>th</sup> January 2005 (or later revision approved

by CASA).

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## **Notes**

1. Fuel Capacity:

Balloons fitted with a single burner must carry at least one master tank as specified in drawings KAV-GEN-30-001 or KAV-GEN-30-002 as applicable. Additional master and slave tanks as specified in these same drawings may be carried as desired by the pilot.

Balloons fitted with a double burner must carry at least two master tanks as specified in drawings KAV-GEN-30-001 or KAV-GEN-30-002 as applicable. Additional master and slave tanks as specified in these same drawings may be carried as desired by the pilot.

2. Flight Manual:

Kavanagh Balloons Hot Air Balloon Flight Manual - Issue 1, March 2008 and Supplements or later CASA approved revision

3. Maintenance:

Airworthiness Limitations and maintenance requirements are specified in the Kavanagh Balloons Maintenance Manual, Issue 4, Revision 0, dated 1<sup>st</sup> March 2007 (or later revision).

4.

Type Certificate VL505 supersedes Certificate of Type Approval 148-3, Issue 3, for Type C Balloons, Serial Numbers 164 to 335.

CTA 148-3 remains active for all other serial numbers lower than 164.

For serial numbers higher than 335 refer to Australian Type Certificate (TC) VL507 which consolidates all Kavanagh Balloon models into one TC.

5. Revision history:

Revision 6 of this TCDS:

- (a) Reformats the TCDS for consistency with other models;
- (b) Makes minor corrections to envelope volumes and weights.;
- (c) Introduces an closing serial number;
- (d) Introduces a common flight manual.

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