

Australian Government

**Civil Aviation SafetyAuthority** 

# TYPE CERTIFICATE

Number: VL503 Issue 2

Safe Skies for All

Pursuant to regulation 21.13A of the Civil Aviation Safety Regulations 1998 this type certificate is issued to Kavanagh Investment Trust in respect of the following aircraft:

Model G-450 hot air balloon

This certificate is valid until suspended or cancelled by the Civil Aviation Safety Authority. The basis of certification is as described in Type Certificate Data Sheet Number VL503 Issued by this authority.

Date of Application: 29 July 2004

Date of Issuance: 11 April 2008

Number:	VL503	
Revision:	1	
Aircraft:	Kavanagh G450	
Date:	11 April 2008	

## **TYPE CERTIFICATE DATA SHEET**

This data sheet which is part of the Type Certificate No VL503 lists conditions and limitations under which the product for which the Type Certificate was issued meets the airworthiness requirements of the Civil Aviation Safety Regulations.

Type Certificate Holder:	Kavanagh Investment Trust
	PO Box 53
	Mount Kuring-Gai,
	NSW, 2080
	Australia

Envelope:	Kavanagh envelope, drawing KAV-G-20-001,	
Volume:	12743 cubic m	I
Baskets:	Kavanagh basket shown in drawing KAV-GEN-30-003.	
Air Heaters:	Kavanagh Series 3, Quad burner, shown in drawing KAV-GEN-30-003	
Fuel:	Commercial LPG or propane.	
Maximum weight:	Gross weight limited to 3700kg, or to the limit determined by the load chart in Section 5 of the Kavanagh Hot Air Balloon Flight Manual, whichever is less.	
Allowable envelope Temperature:	120 deg C.	
Minimum crew:	One pilot.	
Maximum number of Occupants:	As limited by Flight Manual.	

### MODEL Kavanagh G-450 Hot Air Balloon, approved 6th October 2004

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Certification basis:	CASR Part 31, Airworthiness standards for manned free balloons dated 1 <sup>st</sup> October 1998, CAO 101.54 Issue 1 dated 14 <sup>th</sup> May 1985, up to and including Amendment 102.
	Equivalent safety accepted against para 3.3, Heater endurance test, on grounds of safe history of Operation. File F86/253 refers.
	British Civil Airworthiness Requirements (BCAR) CAP 494 Part 31 Issue 2, dated 12 <sup>th</sup> May 2003.
Drawing List:	Sealed drawing list No. G-1 dated 23 <sup>rd</sup> August 2004 (or later issue approved by CASA).
Required Documents	Kavanagh Balloons Type G Flight Manual, CASA approved. That flight manual also lists mandatory equipment to be carried during flight.
Production basis:	Production Certificate No 049101, dated 12 <sup>th</sup> November 2003.
Serial Nos. Eligible:	G450-299 to G450-343 inclusive.
Notes	
1. Fuel capacity	Minimum of two master tanks and two slave tanks as specified in Drawing, No KAV-GEN-30-003 must be carried in the model G-450. Additional master or slave may be optionally carried.
2. Flight Manuals	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)

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4. For serial numbers higher than G450-343 refer to AustralianType Certificate (TC) VL507 which consolidates all Kavanagh

- 5. Revision history: Revision 1 of this TCDS:
  - (a) Reformats the TCDS for consistency;
  - (b) Introduces an closing serial number;
  - (c) Introduces a common flight manual.

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