

COMMONWEALTH OF AUSTRALIA



## CERTIFICATE OF TYPE APPROVAL

Number: 148-3

**Manufacturer:** Kavanagh Balloons Limited  
39 Jubilee Street  
Wahroonga NSW 2076  
Australia

This certifies that approval has been granted in accordance with Regulation 22 of the Civil Aviation Regulations for the model C-77 hot air balloon.

This certificate is valid until suspended or cancelled by the Civil Aviation Authority. The basis of certification is as prescribed in Certificate of Type Approval Data Sheet Number 148-3 issued by this Authority.

A handwritten signature in black ink, appearing to read 'R.J. Brent'.

R.J. Brent  
for the Authority  
Date of Issue: 2 August 1994

# COMMONWEALTH OF AUSTRALIA

No.: 148-3  
Revision: 0  
Kavanagh  
C-77

Date: 2 August 1994



## CERTIFICATE OF TYPE APPROVAL DATA SHEET

This data sheet, which is part of the Certificate of Type Approval No. 148-3, lists the conditions and limitations under which the balloon for which the Certificate of Type Approval was issued meets the airworthiness requirements of the Civil Aviation Authority.

Manufacturer: Kavanagh Balloons Pty Limited  
39 Jubilee Street  
Wahroonga NSW 2076  
Australia

**L**    **Model C-77**    Hot Air Balloon (Balloon Category) Approved 2 August 1994

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

Volume: 2190 cubic metres.

Air heaters: Kavanagh Series 1, single or double.  
Kavanagh Series 2, single or double.  
Kavanagh Series 3, single or double.

Baskets: Kavanagh basket to any size shown in the table of sizes on drawing  
KAV-C-30-001.

Fuel: Commercial LPG or propane.

Maximum weight: Gross weight limited to 760 kg, or to weight requiring a maximum  
continuous envelope temperature of 120 degrees Celsius, which ever is  
the lesser.

Maximum envelope  
temperature: 120 degrees Celsius.

# COMMONWEALTH OF AUSTRALIA

No.: 148-3

Revision: 0

**Minimum Crew:** One pilot

**Fuel capacity:** See Note 1.

**Serial No.s eligible:** Subsequent to KB016.

**Production Basis:** Certificate of Approval No. 2376 dated 24 September 1993 for manufacture

**Certification basis:** CAO 101.54 Issue 1 dated 14 May 1985 including Amendments 84 & 95.  
Concession AWB ES 2/86 dated 1 July 1986 issued for paragraph 4.4(c).  
  
British Civil Airworthiness Requirements (BCAR) CAP 494 Part 31  
Issue 1 dated 31 August 1984.

**Drawing list:** Sealed drawing list No. 1 dated 15 July 1994.

## NOTE 1.

**Fuel capacity:**

Balloons fitted with a single burner unit must carry at least one master tank as specified in drawing KAV-C-30-001. Additional master or slave tanks as specified in drawing KAV-C-30-001 may be carried as desired by the pilot.

Balloons fitted with a double unit must carry at least two master tanks as specified in drawing KAV-C-30-001. Additional master or slave tanks as specified in drawing KAV-E-30-001 may be carried as desired by the pilot.

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