

**CTA No A-4  
Revision 4**

**Airtourer 100  
Airtourer 115**

**Airtourer Cooperative Ltd  
11 December 2009**

**TYPE CERTIFICATE DATA SHEET No A-4**

This data sheet, which is part of Type Certificate No. A-4, prescribes conditions and limitations under which the product for which the Type Certificate was issued meets the New Zealand Civil Aviation Rules.

Type Certificate Holder: **Airtourer Cooperative Ltd**  
7/2 Harbourview Crescent  
Abbotsford Cove 2046 NSW  
AUSTRALIA

**1. - MODEL - AIRTOURER 100 approved 14 December 1967**

Engine: Continental 0-200-A  
Engine limits: Take off (max. 1 min.): 2750 RPM  
Continuous: 2750 RPM  
Propeller: Type: McCauley 1A105/SLM  
Pitch: 50 in. at 0.75 radius  
Diameter: 69 in.  
CG Range: Forward limit: 79.2 in. aft of datum at 1330 lb or less.  
82.8 in. aft of datum at 1650 lb. (linear variation between the points given)

**2. - MODEL - AIRTOURER 115 approved 14 December 1967**

Engine: Lycoming 0-235-C2A  
Engine limits: Take-off: 2800 RPM  
Continuous: 2800 RPM  
Propeller: Type: McCauley 1A105/SLM fixed pitch  
Pitch: 50 in. at 0.75 radius  
Diameter: 69 in.  
or Type: McCauley 1C90/LM fixed pitch  
Pitch: 50 in. at 0.75 radius  
Diameter: 70.5 in.

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CG Range: Forward limit: 78.75 in. aft of datum at 1275 lb or less.  
82.2 in. aft of datum at 1650 lb. (linear variation between the points given)

**DATA APPLICABLE TO BOTH MODELS:**

Drawing List: Aero Engine Services Ltd. Dated 5 October 1967.

Fuel 80/87 minimum octane aviation fuel.

Airspeed Limits: Never exceed - 202 MPH (175 Knots) IAS  
Max. structural cruising - 140 MPH (122 Knots) IAS  
Manoeuvring at 1550 lb - 140 MPH (122 Knots) IAS  
at 1650 lb - 123 MPH (107 Knots) IAS  
Flaps extended - 115 MPH (100 Knots) IAS

CG Range: Aft limit Normal Flight: 86.35 in. aft of datum at all weights.  
Aerobatic Flight: 84.90 in. aft of datum at all weights.  
For Forward Limits, see above under separate Models.

Datum: 50.0 in. forward of front face of engine bulkhead.

Levelling means: Fore & aft & lateral, canopy sills immediately behind windscreen.

Maximum Weight: Normal Flight: 1650 lb  
Aerobatic Flight: 1550 lb

Number of seats: 2 (+ 90.5)

Maximum Baggage: 100 lb. (+ 111)  
Baggage must not be carried when performing aerobatics.

Fuel Capacity: 29.0 Imp. Gal. (28.7 Imp.Gal. usable at + 98)

Oil Capacity: 1.25 Imp. Gal. (+ 32)

Other Operating Limitations: Aircraft shall be operated in compliance with the operating limitations specified in the New Zealand Civil Aviation Authority Approved Flight Manual.

Control Surface Movements:	Elevators:	22° up	15° down	(AT 100 19° up)
	Rudder:	18° left	23° right	
			Flaps Up	Flaps full down
Aileron:	Up :		8.2°	4.5°
	Down :		3.0°	9.3°
Flapperons:	Up :		7.9°	8.0°
	Down :		4.4°	18.0°
Centre Flap:				-28.4°

Serial Nos. Eligible: Model 100 : Nil.

Model 115 : 501 - 518, 520 - 521, 524 - 525, 528 - 531, 533, 541, 547, 556 and 568.

Certification Basis: New Zealand Civil Aviation Regulations 1953 as amended by Amendments Nos. 1-11 inclusive.  
Commonwealth of Australia Department of Civil Aviation Air Navigation Orders Part 101-1 Current at October 1960.

Aircraft Manuals:

Flight Manual: Airtourer 100 – Nil since no serial numbers eligible.

Airtourer 115 – CAA approved Airtourer 115 Flight Manual AIR 2788 dated 8 July 2002, at latest CAA approved revision.

Maintenance and Repair Manual: Model AT 100 and AT115 dated Nov. 1967.

Illustrated Parts Catalogue: Model AT 100 and AT 115 dated Nov. 1967.

Placards: In accordance with the New Zealand Civil Aviation Authority Approved Flight Manual.

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