This data sheet, which is part of Type Certificate No A-7, prescribes conditions and limitations under which the product for which the Type Certificate was issued meets the Airworthiness requirements of the New Zealand Civil Aviation Rules.

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

I - Model Airtourer 150. Approved 10 June 1969

Engine: Lycoming O-320-E2A or E3D
Fuel: 80/87 minimum grade aviation fuel.
Engine Limits: Take off and continuous: 2700 RPM (Maximum)
Diving (at any throttle setting): 2700 RPM (Maximum)
Propeller: Type: Sensenich 74DM6S5-1.5-60
Pitch: 60 in.
Diameter: 72.5"
Airspeed Limits (CAS):
Never Exceed Speed Vne: 185
Maximum Structural Cruise Vc: 127
Maximum Maneuvering Speed Vp: 110 at 1750 lb
129 at 1650 lb
Maximum Flap Extended Speed Vf: 100
C.G. Range:
Forward Limit:
79.2 in. aft of datum at 1400 lb. or less
81.5 in. aft of datum at 1750 lb.
(Linear variation between these points).
Aft limit:
86.0 in. aft of datum at all weights.
Maximum Weight: Normal Flight 1750 lb
Aerobatic Flight 1650 lb

Oil Capacity: 1.67 Imp. Gall. (+29.0”).


II - **Model Airtourer Super 150. Approved 10 June 1969.**

Engine: Lycoming O-320-E1A.

Fuel: 80/87 minimum grade aviation fuel.

Engine Limits: Take off and continuous: 2700 RPM (Maximum) Diving (at any throttle setting): 2700 RPM (Maximum)

Propeller: Type: Hartzell HC-C2YL-1B/7663-3.5 Pitch: 12° 12’ - 35° Diameter: 72.5"

Airspeed Limits (CAS):

<table>
<thead>
<tr>
<th>Speed Limit</th>
<th>Knots</th>
</tr>
</thead>
<tbody>
<tr>
<td>Never Exceed Speed Vne</td>
<td>203</td>
</tr>
<tr>
<td>Maximum Structural Cruise Vc</td>
<td>127</td>
</tr>
<tr>
<td>Maximum Manoeuvering Speed Vp</td>
<td>110 at 1750 lb</td>
</tr>
<tr>
<td></td>
<td>129 at 1650 lb</td>
</tr>
<tr>
<td>Maximum Flap Extended Speed Vf</td>
<td>100</td>
</tr>
</tbody>
</table>

C.G. Range: Forward Limit:
79.2 in. aft of datum at 1400 lb. or less
81.5 in. aft of datum at 1750 lb.
(Linear variation between these points).

Aft limit: 86.0" aft of datum at all weights.

Empty C.G. Range: None.

Maximum Weight: Normal Flight 1750 lb
Aerobatic Flight 1650 lb

Oil Capacity: 1.67 Imp. Gall. (+29.0")


III - **Model Airtourer T3A. Approved 29 January 1973.**

Engine: Rolls Royce 0-240-A

Fuel: 100/130 minimum grade aviation fuel.

Engine Limits: Take-off and continuous: 2800 RPM (Maximum) Diving (at any throttle setting): 2800 RPM (Maximum)

Propeller: Type McCauley 1A-135/RM7153 Pitch 53 in. Diameter 71.0"

Airspeed Limits (IAS): Never Exceed Speed Vne: 175 Maximum Structural Cruise Vc: 122 Maximum Manoeuvring Speed Vp: 107 at 1650 lb 122 at 1550 lb Maximum Flap Extended Speed Vf: 100

C.G. 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 these points). Aft Limit: Normal Flight: 86.35 in. aft of datum at all weights. Aerobatic Flight: 84.90 in. aft of datum at all weights.

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

Oil Capacity: 5 Imp. Quarts.

Serial No.s Eligible: C60, C87, C126, C155, C576.

TCDS A-7 Revision 8

Maintenance & Repair Manual: Model AT 100, 115, 150 and Super 150 : May 1969 amended to Amendment No. AL5 to include T3A.


DATA APPLICABLE TO ALL MODELS

Datum: 50 in. forward of front face of engine bulkhead.

Levelling Means: Fore and aft and lateral, canopy sills immediately behind windscreen.

Number of Seats: 2 (+90.5")

Maximum baggage: 100 lb. (+111")

Baggage is not permitted when performing aerobatics.

Fuel Capacity: 29.0 Imp. Gall. (28.7 Imp. Gall. usable)(+98.0").

Other Operating Limitations: Aircraft shall be operated in compliance with the operating limitations specified in the approved Flight Manual.

Control Surface Movements:

Elevator 22° up 15° down
Rudder 18° left 23° right
Aileron: Up: Flap up 8°20' ; Flap full down 5°50'
        Down: Flap up 3°40' ; Flap full down 11°40'
Flapperons: Up: Flap up 7°30' ; Flap full down 7°30'
            Down: Flap up 4°20' ; Flap full down 19°
Centre Flap: 1st: 4° ; 2nd: 14° ; 3rd: 24° ; 4th: 34°


Weight and Balance: Current weight and balance report (including a list of equipment included in empty weight and loading instructions), must be provided for each aircraft in the Approved Flight Manual at the time of original certification.

Placards: Placards to be displayed in accordance with the NZ CAA Approved Flight Manual.

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