## MINISTÉRIO DA AERONÁUTICA DEPARTAMENTO DE PESQUISAS E DESENVOLVIMENTO CENTRO TÉCNICO AEROESPACIAL

TYPE CERTIFICATE DATA SHEET NO EA-8806

Certificate Holder:

Folha 01

EA-8806-01

AVIONS MUDRY & CIA. 27.300 BERNAY - FRANCE | AVIONS MUDRY & CIE |

CAP 10 B

NOVEMBER 1989

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MODEL CAP 10B (Utility and Acrobatic Category, approved May 9, 1989).

Engine Lycoming IO 360 B2F or Lycoming AEIO 360 B2F.

<u>Fuel</u> 91/96 octane minimum aviation gasoline grade.

Oil SPEC. MIL-L-6082 or MIL-L-22851 (See Lycoming Service Instruction

no. 1014K)

Engine Limits
Takeoff power and max. continuous power - 180 hp at 2700 rpm.

Propeller HOFFMANN HO.29.180.170

<u>Propeller Limits</u> Utility and Aerobatic Categories

Static rpm at maximum permissible setting:  $2250 \pm 50$  Diameter 1,80 m (70,9 in). No cutoff permitted

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Airspeed Limits		Whiliba Gab	Donale a triba
	Cat.	Utility Cat.	<u>Acrobatic</u>
	V <sub>ne</sub> (Never exceed) V <sub>no</sub> (Max structural crinsing) V <sub>C</sub> (Design crinsing) V <sub>A</sub> (Maneuvering) V <sub>fe</sub> (Max flap extended)	183 kt 162 kt 162 kt 108 kt 86 kt	183 kt 162 kt 162 kt 127 kt 86 kt
	See NOTE 2 for acrobatic maneu	vers	
	Cat.	Utility Cat.	<u>Acrobatic</u>
Flight Maneuvering Load Factor (G's)	Flaps up	+ 4,4 - 1,8	+ 6,0 - 4,5
	Flaps down	+ 2,0 - 1,8	+ 2,0 - 2,0
C.G Range	(meter and % of wing chord) Forward limit	+0,27m (18%)	+0,27m
	(18%) Aft. Limit (26%)	+0,45m (30%)	+0,39m
<u>Datum</u>	Wing leading edge at 129,5 (51 in) from airplane centerli (lenght of wing chord at datu 1,5m).	ne.	
Levelling Means	Longitudinal:- left canopy ra Transverse: top of bulkhead no		
Empty Weight C.G. Range	None		
Maximum Weight	Takeoff Landing	830 Kg 800 Kg	760 Kg 760 Kg
Number of Seats		2 at + 0,60m	2 at 0,60m
Maximum Baggage		50 Kg at +1,40m	None
Fuel Capacity	Front Tank (total) (usable) Rear Tank (total) (usable)	75 l (at -0,171m) 72 l 78,7 l(at +1,40m) 78 l	75 l(at -0,171m) 72 l 0 0

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Rear tank must be empty for operations in acrobatic category. Minimum fuel quantity for acrobatic:10 l

### Oil Capacity

Maximum capacity: 7,6 1(8qt)
Minimum : 1,9 1(2qt)

Max. Oil quantity acrobatics: 5,7 1(6qt)

## Control Surface

Aileron	Up	25	±	20	Down	15	±	20
Elevator	Up	25°	$\pm$	2°	Down	25°	±	2°
Elevator Trim tab	Up	24°	$\pm$	2°	Down	14°	±	2°
Rudder	Right	18°	$\pm$	2°	Left	18°	$\pm$	2°
Wing Flaps	Takeoff	15°	±	2°	Landing	40°	±	2°

Serial Numbers Eligible A French "Certificat de Navegabilite pour Exportation" endorsed as noted under Import Requirements, must be submitted for each aircraft exported to Brazil.

# Import Requirements

A Brazilian Airworthiness Certificate may be issued on the basis of a French "Certificat de Navegabilite pour Exportation" signed by a representative of the Direction Generale de L'Aviation Civile containing the following statement: "The airplane covered by this certificate has been examined, tested and found to conform to the type design approved under the Brazilian Type Certificate No. 8806, and to be in condition for safe operation.

## Certification Basis

Type certificate ("Certificado de Homologação de Tipo") No. 8806 issued on the basis of the following regulations and requirements:

- -RBHA 1340 corresponding to FAR 23 effective February 1, 1965, including Ammendments 23-1 through 23-7.
- -Brazilian Special conditions listed in CTA letter no. 0143 IFI/CTA, February 26, 1986, and CTA Report No. H.10-0850-01.

## Equipment

The basic required equipment as prescribed in the applicable airworthiness regulation (see certification basis) must be installed in the aircraft for certification.

# NOTES:

NOTE 1 - Current weight and balance report, including list of equipment in certificated empty weight and loading instructions, if applicable, must be in each aircraft at the time of original certification.

NOTE 2 - Approved acrobatic maneuvers:

Minimum entry speed (Vi in Kt)

	One pilot	Two pilots
Loop	120	125
Half cuban eight	115	120
Slow roll	120	125
Positive snap rolls	80-95	80-95
Negative snap rolls	80-105	80-105
Outside loops	135	145
Hammer head	110	115

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