

**COMANDO DA AERONÁUTICA
DEPARTAMENTO DE PESQUISAS E DESENVOLVIMENTO
CENTRO TÉCNICO AEROESPACIAL**

TYPE CERTIFICATE DATA SHEET Nº EH-8504

Type Certificate Holder:

HAMILTON SUNDSTRAND
1 Hamilton Road
Windsor Locks, CT 06096-1010
USA

EH-8504-02
Sheet 01

HAMILTON
SUNDSTRAND

14RF-9
March 2004

Propellers of models described herein conforming with this data sheet, which is part of Type Certificate No. 8504, meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Brazilian Aeronautical Regulations provided they are installed, operated, and maintained as prescribed by the approved manufacturer's manuals and other instructions.

TYPE Constant speed; hydraulic
(see NOTES 3 and 4)

ENGINE SHAFT 5 125 in. bolt cycle

HUB MATERIAL Aluminum

BLADE MATERIAL Fiberglass covered aluminum spar

NUMBER OF BLADES Four

HUB ELIGIBLE 14RF-9

Blade Eligible (See Note 2)	Max. Continuous Power		Takeoff power		Diameter Limits m (ft)	Approx. Max. Weight Compl. kg (lb)
	shp	rpm	shp	rpm		
RFC11E1-6A	2 000	1 313	2 000	1 313	3.2 (10.5)	104.3 (230.0)
RFC11M1-6A	2 000	1 313	2 000	1 313	3.2 (10.5)	104.8 (231.0)
RFC11N1-6A	2 000	1 313	2 000	1 313	3.2 (10.5)	103.6 (228.5)
RCF11U1-6A	2 000	1 313	2 000	1 313	3.2 (10.5)	103.6 (228.5)
RCF11AA1-6A	2 000	1 313	2 000	1 313	3.2 (10.5)	103.6 (228.5)

CERTIFICATION BASIS Brazilian Type Certificate Nr. 8504 based on the RBHA 35 (Brazilian Requirements for Aeronautical Certification), which endorses the FAR 35 - Amendment 5, dated 11 September 1980.

<u>Model</u>	<u>Application</u>	<u>Issued TC</u>
14RF-9	07/05/1982	06/05/1985

IMPORT REQUIREMENTS Each propeller imported separately and/or spare parts must be accompanied by an Airworthiness Certificate for Export and/or an Airworthiness Approval Tag, respectively, issued by FAA – Federal Aviation Administration, attesting that the particular propeller and/or parts were submitted to the governmental quality control before delivery and are in conformity with the CTA approved type design.

NOTES

NOTE 1 Hub model Designation 1 4 R F - 9 , where:

1 - Major model type

4 - Number of blades

R - Blade shank size

F - Denotes flanges mounting

9 - Indicates a specific model designation which defines a complete propeller assembly, including spinner.

NOTE 2 Blade Model Designation R F C 11 E 1 - 6 A, where:

R - Hamilton sundstrand shank size.

F - Denotes fiberglass blade.

C - Major aerodynamic characteristics.

11 - Basic diameter in feet (Diameter limit shown is normal diameter propeller and does not include the +1/4 inch – 3/16 inch manufacturing tolerance permissible.

E - Structural and operational features (may Indicate particular deicing assembly).

1 - Direction of rotation ant tip configuration.

6 - Normal reduction from basic diameter in inches.

A - Blade spinner interface.

NOTE 3 Pitch control: Propeller control specified on approved model parts list.

NOTE 4 (a) Feathering
Full feathering with propeller control specified on approved model parts list.

(b) Reversing
Full reversing with propeller control specified on approved model parts list.

NOTE 5 Interchangeable blades: Not applicable

- NOTE 6** Accessories:
- (a) Propeller deicing
Electrical deicing system specified on approved model parts list and installed in accordance with the propeller manufacturer's instruction.
 - (b) Spinners
Spinner specified on approved model parts list.
- NOTE 7** Shank Fairings: Not Applicable.
- NOTE 8** Special limits: Airworthiness limitations, if any, are specified in system maintenance manual (SMM) P5186.
- NOTE 9** Special Notes : Aircraft installation must be approved as part of the aircraft type certificate and demonstrate compliance with the applicable aircraft airworthiness requirements.
- NOTE 10** Life-limited Parts: See note 8.

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