

Interstate Aviation Committee
Aviation Register

Data Sheet

Type Certificate №CT288-PA-34

Revision 01

21 November, 2008

Airplane:
PA-34-220T (Seneca V)

Type Certificate Holder:
Piper Aircraft, Inc.
2926 Piper Drive
Vero Beach, Florida 32960, USA

Courtesy translation of TCDS In case of misinterpretation the Russian text shall prevail.
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This data sheet is the integral part of Type Certificate №CT288-PA-34 , defines Type Design and prescribes the conditions and limitations under which the product for which the Type Certificate was issued meets the airworthiness requirements of Certification Basis, which is prescribed in this Data Sheet.

List of effective pages:

Page	1	2	3	4
Revision	01	01	01	01

**Designer and
Manufacturer**

Piper Aircraft, Inc.
2926 Piper Drive, Vero Beach, Florida 32960

Модель PA-34-220T (Seneca V)

(S/n: 3449311, 3449323 and subsequent)

**1. Brief Aircraft
Description**

Normal category airplane with two reciprocating engines.

**2. Type Design
Definition**

Type Design is defined by:

- a) original Type Design according to Type Certificate №A7SO issued by FAA, described by Aircraft General Assembly Drawing № VB-1939 (with Supplement incorporated upon IAC AR requirement, see section 17).
- b) Operational documentation:
 - FAA approved Airplane Flight Manual VB-1930 with Supplement VB-2040 for CIS operators.
 - Maintenance Manual №761-888 with Supplement “Commonwealth of Independent States (CIS) Supplement”, Part Number 766-861, for CIS operators.

3. Engines

Left engine: Teledyne Continental TSIO-360-RB
Right engine: Teledyne Continental LTSIO-360-RB
IAC AR Type Certificate № CT 84-Д dated 15.05.2008.

**3.1. Engine
limitations**

Engine performance and operating limitations see in IAC AR Type Certificate Data Sheet № CT84-Д dated 15.05.2008.

4. Propeller

Left engine: Hartzell, Hub model BHC-J2YF-2CUF, Blade model FC8459(B)-8R
Right engine: Hartzell, Hub model BHC-J2YF-2CLUF, Blade model FJC8459(B)-8R
Spinner: Piper P/N 37138-6 assembly (left hand), Piper P/N 37138-7 assembly (right hand).
Governor assembly: Hartzell hydraulic governor, model E-3-9 (left), model E-3-9L (right); or
Hartzell hydraulic governor, model E-8-9L (right) with Synchrophaser installation.
IAC AR Type Certificate № CT 274-BB dated 31.03.2008.

**4.1 Propeller
limitations**

Propeller performance and operating limitations see in IAC AR Type Certificate Data Sheet № CT274-BB dated 31.03.2008r

5. Approved fuel

Foreign fuel types:
100/100 LL aviation grade aviation gasoline

6. Fuel Capacity

486 liters (128 gallons) (2 wing tanks)
Usable – 464 liters (122 gallons)

**7. Minimum flight
crew**

One pilot

**8. Maximum number
of seats**

6

9. Maximum weight

	kg.	lb.
Maximum ramp weight:	2165	4773
Maximum takeoff weight	2155	4750
Maximum landing weight:	2047	4513

10. Maximum baggage weight	91 kg (200 lb)																				
11. C.G. range (landing gear extended)	See in FAA approved AFM VB-1930 with Supplement VB-2040 for CIS operators.																				
12. Maximum operating altitude	4270 meters (14000 feet)																				
13. Aerodrome class and category	Airplane is capable to operate on paved runways. The aerodrome elevation must not exceed 2440 meters (8000 feet).																				
14. Airspeed limits (IAS)	<table border="1"> <thead> <tr> <th></th><th>knots</th></tr> </thead> <tbody> <tr> <td>Never exceed (V_{NE})</td><td>204</td></tr> <tr> <td>Maximum structural cruise(V_{NO})</td><td>164</td></tr> <tr> <td>Maneuvering (V_A) (2155 kg) (4750 lb)</td><td>139</td></tr> <tr> <td>Flaps extended (V_{FE}):</td><td>113</td></tr> <tr> <td>Maximum landing gear operation (V_{LO}):</td><td></td></tr> <tr> <td>Landing gear extending (V_{LO}):</td><td>128</td></tr> <tr> <td>Landing gear retracting (V_{LO}):</td><td>107</td></tr> <tr> <td>Landing gear extended (V_{LE}):</td><td>128</td></tr> <tr> <td>Minimum control speed (V_{MC})</td><td>66</td></tr> </tbody> </table>		knots	Never exceed (V_{NE})	204	Maximum structural cruise(V_{NO})	164	Maneuvering (V_A) (2155 kg) (4750 lb)	139	Flaps extended (V_{FE}):	113	Maximum landing gear operation (V_{LO}):		Landing gear extending (V_{LO}):	128	Landing gear retracting (V_{LO}):	107	Landing gear extended (V_{LE}):	128	Minimum control speed (V_{MC})	66
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15. Outside ambient temperature	Outside ambient temperature on the ground is minus 15 °C to +35 °C.																				
16. Airworthiness limitations	Life limits and airworthiness limits see in FAA approved Chapter 4: "Airworthiness Limitations" of the Maintenance Manual №761-888 with Supplement "Commonwealth of Independent States (CIS) Supplement", Part Number 766-861 for CIS operators.																				
17. Mandatory equipment	<p>1. All placards and inscriptions inside and outside the airplane related to emergency and safety equipment and to the firefighting means except for "EXIT" signs in English must be bilingual: in English and in a language agreed on with CIS operator</p> <p>2. In addition to the standard equipment, approved by FAA, for flights in CIS airspace airplane should be equipped with the following equipment:</p> <ul style="list-style-type: none"> • P855A1 Russian-made emergency VHF radio (installed by operator); • one PFD (displays pressure in hPa); • one MFD; • Stand-by altimeter for indicating flight altitude in meters; • FDR (for commercial flights); • ADF; • Autopilot (for one-pilot operation and flights under IFR). 																				
18. Other limitations	<ul style="list-style-type: none"> ▪ Flights are prohibited in predicted icing conditions. ▪ Airplane operations are allowed only on paved runways. ▪ Flights in CIS aerospace are performed only in the routes, where ATC is functioning in RBS mode. ▪ Overwater flights are allowed on the conditions prescribed in operational regulations. 																				
19. Noise requirements	Noise Type Certificate issued № CIII176-PA-34 dated 21.11.08r.																				

20. Certification basis

1. Airworthiness requirements:

- Aviation Regulations, Part 23 (AP-23) “Airworthiness Standards: Normal, Utility, Acrobatic and Commuter category airplanes” with Amendment 4 (See CRI – A1) and Special Technical Conditions issued by FAA and prescribed in FAA Type Certificate Data Sheet № A7SO.

2. Environmental requirements:

Aviation Regulations, Part 36 (AP-36) Section F “Noise requirements”.
ICAO Annex 16, Volume 1, Chapter 10.

*Original in Russian language
signed by*

Vladimir Putilin
Chief of Branch
Small Aircraft