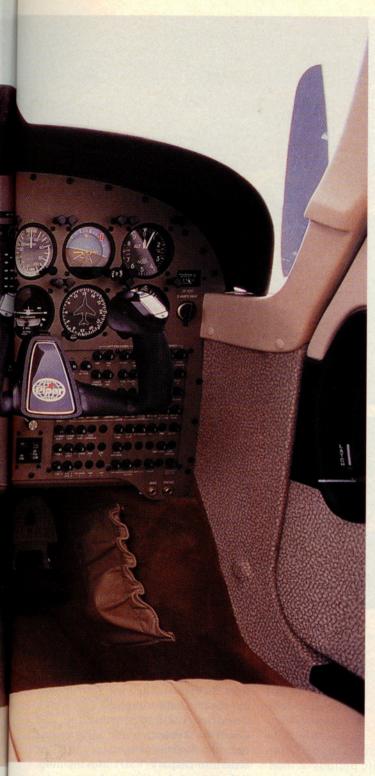


Fly a Seneca V and you'll quickly understand why Archer and Saratoga pilots

Seneca Vs in 2001—which represents almost 10 percent of its 441 total deliveries for that year. This year, New Piper plans on selling 37 Seneca Vs. And most buyers will go for options that push prices closer to \$690,000.

Who buys new Seneca Vs? Chris Layson, president of Northern Air, a Grand Rapids, Michigan-based New Piper dealership, says that the typical Seneca V buyer has owned a New Piper Saratoga II for two to three years, although some "come right out of an Archer, just to build multiengine time." For this reason, Layson schedules demonstration flights in Seneca Vs after his Archer and Saratoga buyers pass the two-year mark.

John Lowe, president of Des Moines Flying Service—the oldest Piper dealership in the nation—says that the op-



The Seneca V panel, with its vertical engine gauges and digital displays, looks like it would be right at home in a twin turboprop. Optional copilot instruments add \$8,305 to the price tag, but leather seats are standard equipment.

As for price resistance, Lowe says that hasn't been a factor. As always, some customers simply want a new airplane and like the security of flying under a warranty. "Besides, a new [Beechcraft] Baron without turbos goes for about \$1.1 million, and you can operate two Seneca Vs for the price of one Baron," he says.

New Piper officials point out another reason why some owners are drawn to the Seneca V. Some pilots would like to buy New Piper's turboprop single, the Meridian, but can't meet insurance prerequisites for flying a turbine-powered airplane as pilot in command. The desire for certification for flight into known-icing conditions seals the deal.

Although the Seneca V is based on a 1972 design—the Seneca I—it's the beneficiary of refinements made over the years. The first Senecas came with 200-horsepower Lycoming IO-360 engines. In 1975 the Seneca II offered



nake smooth transitions. The control feel is very much like that of a Saratoga.

tional known-icing package (\$25,015) is an important draw. "It's a good winter airplane, it can get in and out of 2,700-to 3,000-foot strips easily, it has an excellent single-engine service ceiling, and the turbos give it good performance at high density altitudes," he says. Most of Lowe's Seneca Vs are sold to small- to medium-size companies and serve in corporate fleets. They pro-

vide transportation on shorter trips, or swing into action when the company jet is unavailable.

Layson echoes the known-icing draw. "It's not so much that it's got a second engine—though that's a big factor for those who spend a lot of time crossing the Great Lakes—it's that the airplane can get in and out of Michigan and the other states up north in the winter."

200-hp turbocharged Continental engines. The Seneca III came with a 28-volt electrical system, one-piece windshield, Continental TSIO-360 engines of 220 hp, three-blade propellers, and a redesigned Royalite-free instrument panel. The Seneca IV added high-end instrument options, a deicing package, a leather interior, and optional air conditioning. The V came









out in 1997 and brought intercooling to the turbocharged Continentals.

The 2002 Seneca V flown for this article was decked out with popular options: copilot instruments (\$8,305); Honeywell Bendix/King RDR 2000 vertical profile weather radar (\$35,375); air conditioning (\$13,490); yaw damper (\$4,270); and the known-icing package. It's interesting to note that New Piper won't sell you ice-protection equipment piecemeal. You either buy the full, approved FIKI (flight into known icing) package or nothing at all. This includes pneumatic leading-edge deice boots, electric windshield and propeller heating elements, electrically heated pitotstatic probes and stall warning vanes, plus an ice light for illuminating the left wing leading edge to check for ice buildups when flying at night.

Large cabin and baggage capacities, plus the known-icing package, make the Seneca V a great wintertime workhorse. The system is effective, but like any ice-protection system it is not designed to take on the worst icing conditions, or

to let you mill around in ice-laden clouds for indefinite periods of time. The system merely allows you some extra time to escape icing should it be encountered.

The standard-equipped panel comes with a Garmin GNS 530/430 setup, which gives you a pair of IFR-certified GPS, VOR, localizer, and com radios. A slaved compass system and S-Tec System FiftyFive X autopilot are also standard, as are Garmin's GTX-327 transponder and GMA-340 audio panel with marker beacons and intercom.

If you want even more large-display acreage, then you can order up what New Piper calls the Situational Awareness Package-which was also aboard our demonstration airplane. This adds a Goodrich WX-500 Stormscope and Goodrich SkyWatch traffic advisory system, plus Avidyne's FlightMax 750 Flight Situation Display (FSD). Moving map, lightning, aeronautical charts, radar imagery, and Stormscope returns can all play on the FSD's large color display. The Situational Awareness Package is an extra \$41,740, but the Stormscope and SkyWatch option can be bought independent of the Avidyne FSD and play on the Garmin 530 instead.

The panel has a professional look to it, let there be no doubt. The vertical stack of dual Horizon Aerospace engine gauges is a big part of that look, and so is the





Intercooling and redesigned cowlings distinguish the Seneca V. Earlier versions tended toward high CHTs and oil temperatures.

Flightline Digital Display Monitoring Panel (DDMP). The DDMP is at the top of the engine instrument stacks, and has a rotary mode selec-

tion knob that lets you display a wide range of system and performance data. These include engine power output, fuel and electrical system status, temperatures, and any excessive values-such as engine overtemps-along with the duration, peak value, and time of day and date of the exceedance. The DDMP can be set up to show just about any combination of parameters. Especially helpful is the percent-power display. This lets you adjust the engine controls and watch the percent-power

## New Piper PA-34-220T Seneca V Base price: \$583,900 Price as tested: \$740,100

Specifications	
Powerplants	.220-hp (ea) Teledyne
	Continental TSIO-360
Recommended TBO	1,800 hr
Propellers	Hartzell two-blade.
76-in dia (1	three-blade McCauley,
	76-in dia, optional)
Length	28 ft 7 in
Height	
Wingspan	
Wing loading	21 2 16 /22 4
Power loading	
Seats	
Cabin length	
Cabin width	
Cabin height	3 ft 6 in
Standard empty weight	
Max ramp weight	
Max takeoff weight	
Max zero fuel weight	
Max useful load	1,337 lb
Max payload w/full fue	I605 lb
Max landing weight	
Fuel capacity, std12	8 gal (122 gal usable)
	768 lb (732 lb usable)
Baggage capacity	
Forward, external	100 lb, 15.3 cu ft
Aft, internal	85 lb, 17.3 cu ft
Performance	
Takeoff distance, groun	d roll1.143 ft
Takeoff distance over 5	
	2.180 ft
Accelerate-stop distance	
Max demonstrated cros	
	17 kt
Rate of climb, sea level	
Single-engine ROC, sea	
Cruise speed/range w/	
consumption)	45-min rsv (ruer
	10 000 0
@ High-speed cruise,	
182	kt/635 nm (28 gph)

@ Normal Cruise, 25,000 π		
200 kt/645 nr	n (24	gnh)
Max operating altitude		
Service ceiling	25,0	200 #
Cingle against annihing	.25,0	1000
Single-engine service ceiling		
Landing distance over 50-ft obstac		
Landing distance, ground roll	1,1	43 ft
Limiting and Recommended A	irsp	eeds
V <sub>n</sub> (rotation)	81	KIAS
$V_R$ (rotation)	83	KIAS
V <sub>Y</sub> (best rate of climb)	99	KING
V (best single engine angle of al	imbl	MIAS
V <sub>XSE</sub> (best single-engine angle of cl	(dilli	1/140
***************************************	00	MAG
$V_{\rm YSE}$ (best single-engine rate of clir	nb)	
V <sub>MC</sub> (min control w/one engine ino	perat	ive)
	66	KIAS
V <sub>SSE</sub> (min intentional one-engine op	erati	on)
332		
V <sub>A</sub> (design maneuvering)		
V <sub>FE</sub> (max flap extended)		
V <sub>LE</sub> (max gear extended)	128	KIAS
V (may dear enerating)	.120	MAS
V <sub>LO</sub> (max gear operating) Extend	400	MIAG
Extend	.128	KIAS
Retract	.TUI	NIAS
V <sub>NO</sub> (max structural cruising)	.164	KIAS
V <sub>NE</sub> (never exceed) V <sub>S1</sub> (stall, clean)	.204	KIAS
V <sub>S1</sub> (stall, clean)	67	KIAS
V <sub>SO</sub> (stall, in landing configuration)	61	KIAS

@ Normal cruise 25 000 ft

For more information, contact The New Piper Aircraft Inc., 2926 Piper Drive, Vero Beach, FL 32960; telephone 561/567-4361; fax 561/778-2144; or visit the Web site (www.newpiper.com).

All specifications are based on manufacturer's calculations. All performance figures are based on standard day, standard atmosphere, sea level, gross weight conditions unless otherwise noted.



display change until it shows the power output you want.

Fly a Seneca V and you'll quickly understand why Archer and Saratoga pilots make smooth transitions. The control feel is very much like that of a Saratoga—kind of trucky, what you'd expect from a 4,750-pound airplane—and so are the target airspeeds used in the pattern. On short final, the Seneca V can be flown as slow as 82 knots and yes, the airplane is easy to land.

Setting power is no sweat, thanks to the V's automatic wastegates. You simply throttle up to the manifold pressure you want, and the wastegates hold that value as you climb to the critical altitude—the alti-

altitude—the altitude where the wastegates are closed and power output begins to drop off, approximately 19,000 feet according to New Piper. Even so, the V's Rajay turbochargers let you cruise as high as 25,000 feet—but up there you'll need the built-in oxygen system option (\$7,406).

Sturdy construction,

solid control feel,

and tame landings

do a lot to keep

The day of our visit to New Piper, five Seneca Vs and seven Seminoles were being readied for delivery. The Seminole also figures prominently in New Piper's sales mix. It's the only multiengine trainer in production, and last year 62 were sold. This year New Piper thinks it will sell 70. Add that to the Seneca Vs planned for 2002 delivery and you've got reason to convince yourself that there will

Links to additional information about Senecas may be found on AOPA Online (www.aopa.org/ pilot/links.shtml). always be a market for hard-working new piston twins like these.

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