

# CENTAUR

Model 411



## QUALITY PERFORMANCE AT AN AFFORDABLE PRICE

Most hams who frequent the HF bands eventually yearn for that extra punch an amplifier can add to their signal. We all may thirst for one of those legal-limit "powerhouse" amps, but the family budget often demands a more affordable approach. *CENTAUR* is packed with all the essentials for SSB, CW, and even digital modes. Your 100-watt transceiver will drive *CENTAUR* to 600 watts output. Run full power for a QSO as long as you like in SSB and even CW mode. It's built to take the abuse! The RF deck and power supply are housed in a single, attractive, desk top enclosure which looks great in any ham shack.

## COMPARE THE COMPETITION

Competition has long offered low priced amps, but our goal is to do more. We want to offer the best VALUE in the industry. Let's compare the competition's 3-tube 811A amplifier to *CENTAUR*...

	CENTAUR	COMPETITION
Full Break-in CW	YES	NO
Hot Switching Protection	YES	NO
Built-in Wattmeter	YES	NO
Cooling Fan	100 CFM	25 CFM
Power Transformer	21 lbs.	17 lbs.
Filter Capacitor Rating	2,000 VOLT	1,800 VOLT
Matched Rectifiers	YES	NO

## THE RIGHT FEATURES AT THE RIGHT PRICE

Full QSK operation is a standard feature, not an expensive add-on option. T R switching time of less than 7 milliseconds allows use of

fast-switching digital modes like AMTOR and PACTOR. Run full break-in high speed CW. *CENTAUR* includes hot switching protection to prevent transmitting into the amplifier before the T R circuitry has closed - a Ten-Tec exclusive. *CENTAUR* covers all 9 HF bands, including WARC. (10-12 meter operation can be added by authorized users.) 600 watts output power on SSB, CW, and AMTOR PACTOR. 350 watts output RTTY. Internal wattmeter is standard equipment. *CENTAUR* comes wired for 120 VAC operation and can be easily changed to 240 VAC if desired.

## CLASSIC DESIGN...CLASSIC PERFORMANCE

Classic design is derived from solid, proven engineering. Like the classic Collins 30L-1, *CENTAUR* uses horizontally mounted 811A tubes. Horizontal mounting gives the amplifier a sleek, low-profile look which complements today's HF transceivers. Don't believe misleading claims about unsafe tube orientation. Svetlana's data sheet for the 811A tube specifies, "The internal structure is well supported and is aligned with respect to the base pins to avoid internal shorts in equipment designed for horizontal mounting." Heavy-duty power supply, 100 CFM fan ensures efficient air flow for tubes, tank circuit, and power supply transformer. TUNE and LOAD controls use heavy die-cast knobs coupled to 6:1 vernier drives for a silky smooth tune-up.

## TEN-TEC SERVICE GUARANTEE

*CENTAUR* carries the usual TEN-TEC one-year warranty on both parts and labor. Our legendary service is there to back you up if you ever need it. Svetlana warrants the 811A tubes separately. If a tube fails, replacement is free during the first 100 hours of use, cost is prorated up to 1,000 hours of use during the first year.

## GENERAL SPECIFICATIONS

**BAND COVERAGE:** 160, 80, 40, 30, 20, 17, and 15 (12 and 10 meters for authorized users).

**POWER OUTPUT:** 600 watts SSB/CW on 80 through 15 meters, 500 watts on 160 meters and 10 meters. 350 watts RTTY/SSTV. 50% duty cycle

**DRIVE POWER:** 90 - 100 watts typical for rated output.

**TUBE COMPLEMENT:** 3 Svetlana 811A Triodes, class AB2 in grounded grid.

**PLATE VOLTAGE:** 1,800 volts no load; 1,500 volts full load.

**EFFICIENCY:** up to 70%, depending on frequency and load impedance.

**HARMONICS:** meets or exceeds FCC requirements.

**FULL BREAK-IN:** built-in with T/R switching time less than 7 milliseconds.

**PRIMARY POWER:** 12 amps @ 120 VAC, 6 amps @ 240 VAC, 50/60 Hz. Shipped factory-wired for 120 VAC, easily changed to 240 VAC through access panel on rear.

**SAFETY:** Hot switching T/R protection, plate transformer primary interlock and high voltage shorting bar.

**INPUT/OUTPUT IMPEDANCES:** 50 ohms, unbalanced.

**COOLING:** 4" 100 CFM tube-axial fan, all metal frame

**METERING:** switch-selectable forward power, grid current, plate voltage, and plate current.

**FRONT PANEL CONTROLS:** plate TUNE and LOAD, band switch, operate/standby, QSK/PTT, meter switches for plate current/plate voltage and grid current/forward power, power on/off.

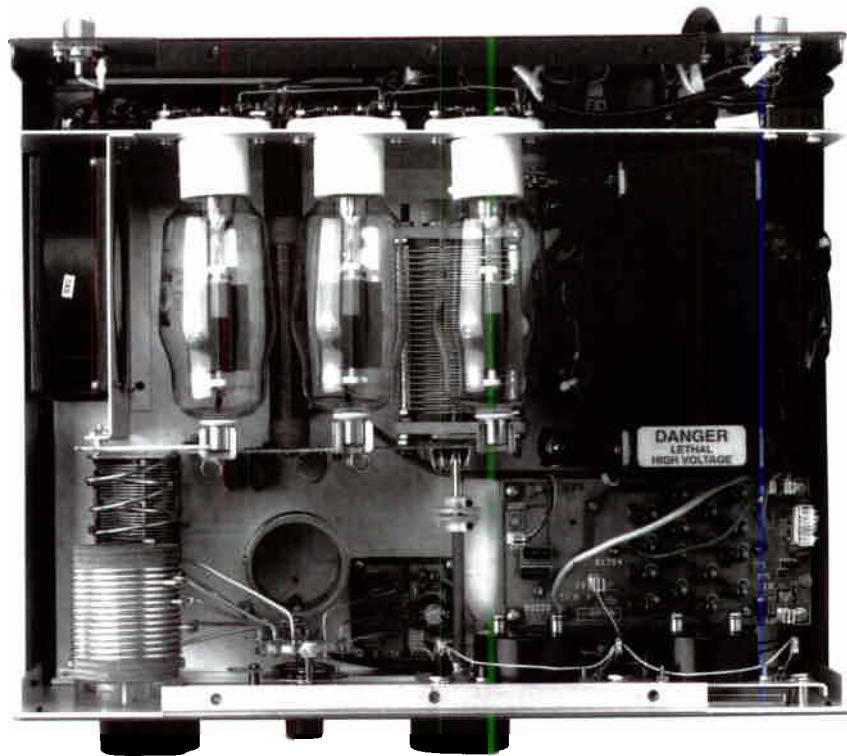
**REAR PANEL CONNECTIONS/CONTROLS:** antenna, transceiver, ALC adjust, ALC, key in, key out, PTT/VOX, GND.

**CONSTRUCTION:** aluminum chassis, front, and rear panels; steel top and bottom covers.

**SIZE:** HWD 6" x 15.5" x 13" (15.2 x 39.4 x 33 cm).

**WEIGHT:** 40 lbs. (18.14 kg).

## CENTAUR MODEL 411 - INSIDE VIEW



1185 Dolly Parton Parkway Fax: (423) 428-4483  
Sevierville, TN 37862, U.S.A. Repair Dept.: (423) 428-0364  
Orders: 800-833-7373 e-mail: sales@tentec.com  
Office: (423) 453-7172 web site: <http://www.tentec.com>

**MADE IN  
USA**