

ACOM 2000A

AUTOMATIC HF LINEAR AMPLIFIER

- It knows all you need and does it automatically
- A must for the DX'er and contester



The Intelligent Amplifier



ACOM 2000R

AUTOMATIC HF LINEAR AMPLIFIER

FEATURES

Cool 1500W RF output

Self-contained linear amplifier. Covers all HF bands. Employs two 4CX800a (GU74B) Svetlana high performance ceramic metal tetrodes.

Automatic self-tune

Follows transceiver band and frequency automatically in less than a second. Just a dot on CW or 'Ah' on SSB are enough.

Automatic antenna matching and change

Antenna matching for VSWR up to 3:1 (2:1 on 160 m). User tunings of ten different antennas per each band segment.

Virtually silent QSK

Full break-in (QSK) using a built-in vacuum relay

New Remote Control Unit (RCU)

Only the RCU needs place near the operator. It features: Large 5" TFT color display. All amplifier's parameters displayed simultaneously are more convenient to view. Antenna changeover is more comfortable. Enables amplifier operation by transceiver through CAT interface.

Protections

All tubes voltages and currents, supply voltages, overheating, overdrive, insufficient flow of cooling, internal and external RF arcs, T/R sequencing, antenna relay contacts 'hot switching', antenna matching quality, reflected power, stored data, inrush power-on current, and cover interlock for operator's safety.

Construction

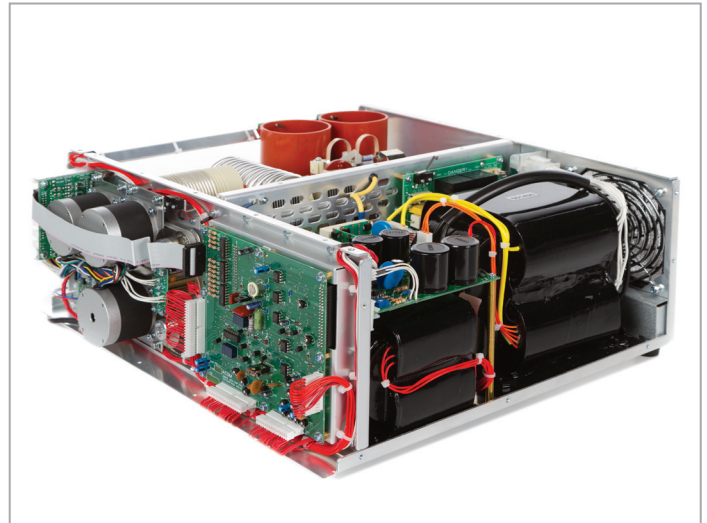
Only high quality RF ceramic and silver plated metals (no plastics, no ferrites) in the plate tank. True transmitter-type tubular and door-knob ceramic pad capacitors. All main parts and assemblies are produced by ACOM: ceramic tubes sockets, plate and antenna ceramic chokes, ceramic supported and ball bearing variable air capacitors, ceramic band switch, LV and HV transformers, 100W swamping 50 Ohm RF resistor, quiet air blower, metal work, etc. ACOM's own research, development, hardware, and software design and engineering have led to the dramatically low cost of the amplifier.

Options

- Auxiliary external fan for continuous modes of operation (24V/1 19 x 1 19mm x 38mm/4-2/3" x 4-2/3" x 1-1/2").
- ACOM2000S/SW external automatic antenna switch (10 positions, 5kW rated power, 50 Ohm coaxial line).
- Technical Supplement to the Operating Manual.



Remote Control Unit
Size: 170mm x 138mm x 63mm



SPECIFICATIONS

- Frequency Coverage: All amateur bands 1.8-29.7MHz; extensions and/or changes on request.
- Power Output: 1500W PEP or continuous carrier, no mode limit.
- Intermodulation Distortion: Better than 35dB below rated output.
- Hum and Noise: Better than 35dB below rated output.
- Harmonics Output Suppression: Better than 50dB below rated output.
- Input and Output Impedances:
 - nominal value: 50 Ohm unbalanced, UHF (S0239) type connectors;
 - input circuit: broadband, VSWR less than 1.3:1, 1.8- 30MHz continuously (no tunings, no switching);
 - bypass path VSWR less than 1.1:1, 1.8-30MHz continuously;
 - output matching capability: better than VSWR 3:1 (2:1 for 160m or greater at reduced output levels; automated).

- Automatic Tuning:
 - antenna impedance matching - less than 3 seconds;
 - band change - less than 1 second;
 - segment change - less than 0.2 seconds.
- RF Gain: 14.5dB, frequency response less than 0.5dB (60W drive power for rated output).
- ALC: grid-current derived, -I IV max, rear panel adjustable.
- Primary Power: 90-132V (100 & 120V nominal taps, 10% tol.) and 180-264V (200, 220 & 240V nominal taps, 10% tol.), 50-60Hz, single phase, 3500VA consumption at rated output.
- Size (operating):
 - W440mm x D500mm x H180mm (17-1/3" Wx 19-2/3" Dx 7" H).
- Weight (operating):
 - 37kg. (81.6lbs).

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