

# THE HG88 MARK THREE



# The HG88 Mk III Integrated Stereo Amplifier

The new HG88 Mk. III Integrated Stereo Amplifier has been designed to form the basis of the more ambitious Home Stereo System. Employing the latest techniques in valve amplifier design the new unit achieves standards of performance not yet possible with transistors at comparable cost.

Compared with the previous Mk. II HG88 the new amplifier provides increased power output, improved control facilities, including a high-performance Filter Circuit, and entirely new styling. Detail improvements include pick-up matching by Plug-in Adaptors, a Tape Panel Socket, Tape Monitor facility and Silicon Rectifiers in the power supply.

Materials and workmanship conform to the unusually high standard which has come to be expected of all ROGERS units and each amplifier is covered by our unique TWO-YEAR GUARANTEE.

## Design Features

**Power Output** 15 watts per channel from push-pull ECL86s ensures an adequate reserve of power for the largest domestic installations even when using relatively insensitive speakers. Power output is substantially unaffected by output impedance matching.

**Power Supply** features Silicon Rectifiers in a Voltage Doubler Circuit, achieving cooler running and better voltage regulation. The use of a fixed bias Output Stage further contributes to cooler operation.

**Disc Facilities** include inputs suitable for virtually any magnetic, crystal, or ceramic cartridge currently available. Accurate matching is ensured by the use of Plug-in Adaptors.

**Tape Facilities** include a 5-pin DIN Continental Pattern Tape Panel Socket providing for the connection of a complete Tape Recorder. Record and Replay sockets also appear at the rear of the chassis for built-in installations. Panel slide-switch provides for tape monitoring and speaker muting.

**Function Selector** provides for mono operation through both output channels in parallel from either input channel.

Position on Input Selector provides Disc Mono setting, employed when using a compatible stereo pick-up to play a mono record.

**High-Performance Filter**, 3-way push-button selector provides a single High-Pass Filter and a 3-position Low-Pass Filter, ensuring optimum performance from poor programme material.

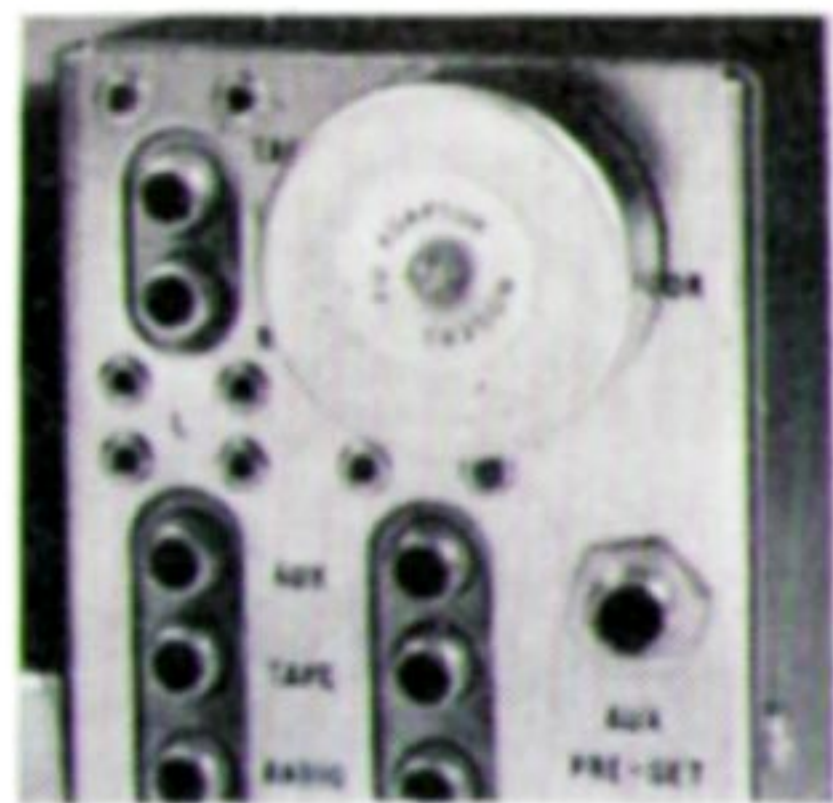
**Bass and Treble Controls**, wide range variable controls in a modified Baxendall Circuit compensate for differences in recordings, room acoustics, etc.

**Styling** features front panels in satin anodised silver finish and control knobs with ground aluminium inserts. Panels have also been reduced in height, achieving an altogether slimmer appearance.

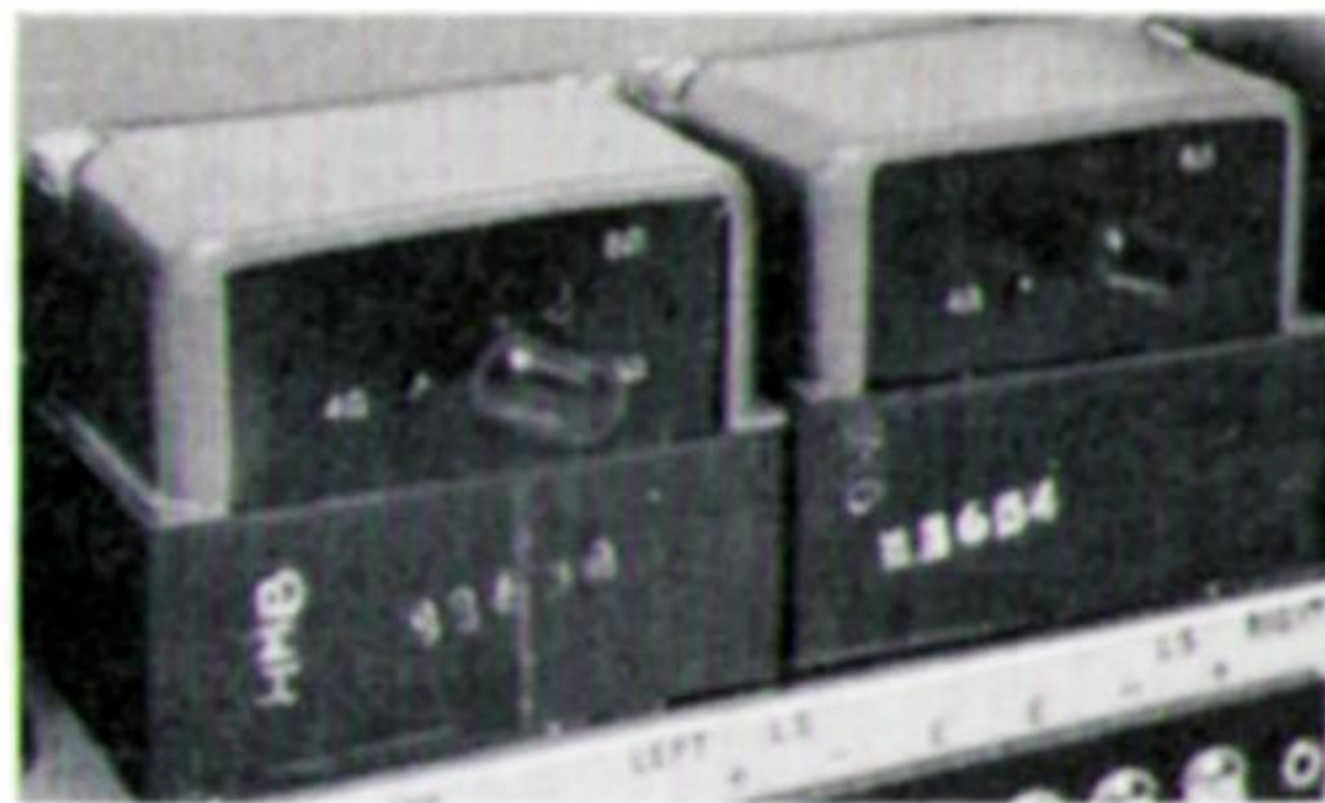
**Installation** has been simplified and the amplifier may now be mounted with the front panel in a horizontal plane if desired. For free-standing installations the amplifier is available installed in a wooden case finished in either Teak or Dark Australian Walnut FORMICA.



Four special low-noise ECC807 twin-triodes employed in input and tone compensation stages.



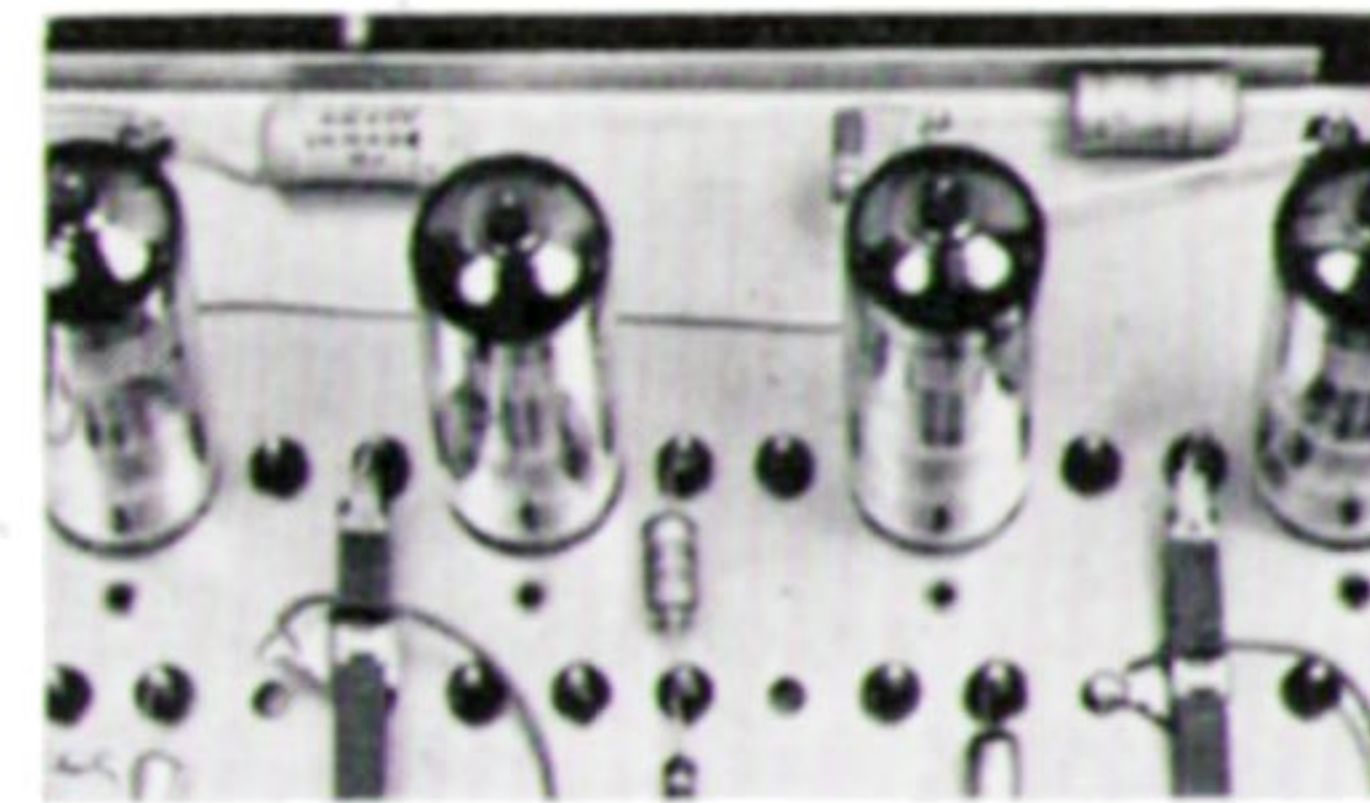
Accurate matching adaptors. pick-up by plug-in



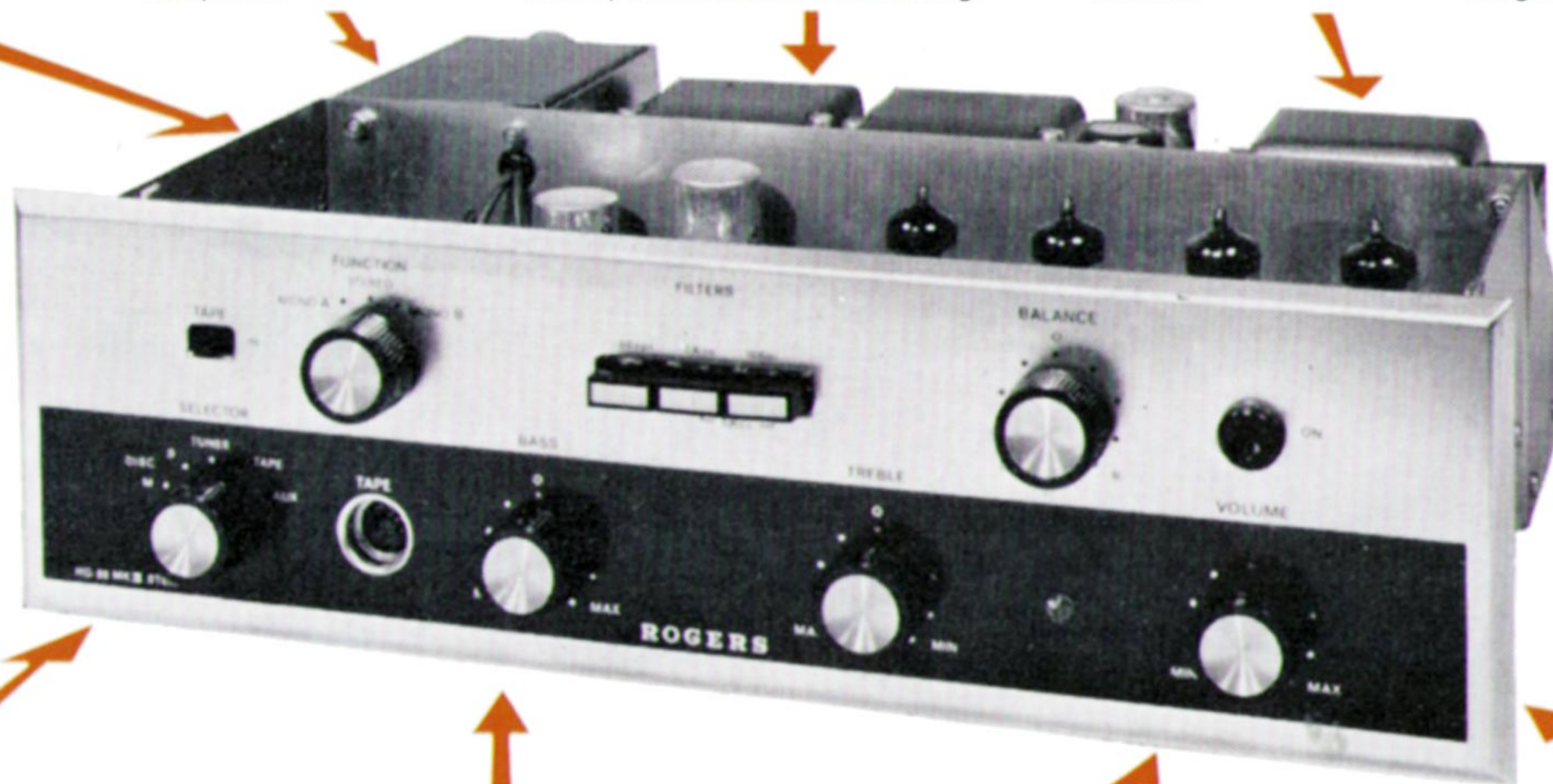
High grade sectionalised output transformers. Impedance links provide 4, 8 and 16 ohm matching.



Dual voltage double-wound mains transformer.



Four ECL86 output valves provide 15 watts per channel. Fixed bias output stage.



5-position Input Selector provides Disc, Tuner, Tape and Aux settings. Mono Disc setting for compatible stereo cartridges.



5-pin DIN Panel Socket for complete Tape Recorders. Tape slide-switch provides monitoring and speaker muting facility.



Immaculate wiring and high grade components ensure reliability and consistent performance.



High-performance Filter provides single High-Pass characteristic and three Low-Pass characteristics.

# Technical Specification

|                                   |   |                    |                                     |
|-----------------------------------|---|--------------------|-------------------------------------|
| <b>Power Output</b>               | 15 + 15 watts + 0 dB 1000 cps.<br>- 1 dB        |                    |                                     |
| <b>Power Response</b>             | 12 watts, 30-10,000 cps.                        |                    |                                     |
| <b>Frequency Response</b>         | ± 1 dB, 20-25,000 cps.                          |                    |                                     |
| <b>Harmonic Distortion</b>        | Less than 0.25%, 14 watts, 1000 cps.            |                    |                                     |
| <b>Intermodulation Distortion</b> | Less than 1%, 14 watts, 50 cps & 6000 cps., 4:1 |                    |                                     |
| <b>Hum and Noise</b>              | - 80 dB below 14 watts                          |                    |                                     |
| <b>Output Impedance</b>           | 4 ohms, 8 ohms, 16 ohms                         |                    |                                     |
| <b>Input Sensitivity</b>          | <i>Input</i>                                    | <i>Sensitivity</i> | <i>Impedance</i>                    |
|                                   | Radio   | 100 m/V            | 470K Flat                           |
|                                   | Disc:   |                    |                                     |
|                                   | Magnetic  | 4 m/V              | 68K RIAA                            |
|                                   | Crystal/Ceramic                                 | 65 m/V             | 2 megohms Flat                      |
|                                   | Tape Replay                                     | 100 m/V            | 470K Flat                           |
|                                   | Auxiliary                                       | 60 m/V             | 100K Adj.                           |
|                                   | Tape Replay:                                    |                    |                                     |
|                                   | Panel Socket                                    | 600 m/V            | Approx. Flat<br>250K                |
|                                   | Tape Record Output                              | 600 m/V            | External load not<br>less than 100K |

|                           |   |                         |
|---------------------------|---|-------------------------|
| <b>Bass Control</b>       | + 15 dB - 18 dB, 40 cps.  |                         |
| <b>Treble Control</b>     | ± 18 dB, 10 kcs.  |                         |
| <b>Balance Control</b>    | 9 dB Range  | Operative on all inputs |
| <b>Low-Pass Filter</b>    | 5-7-10 kcs.   | 12 dB per octave        |
| <b>High-Pass Filter</b>   | 60 cps.   | 12 dB per octave        |
| <b>Cross-Talk</b>         | 42 dB 1000 cps. 30 dB 10,000 cps.                                 |                         |
| <b>Valve Line-up</b>      | 4 × ECC807 4 × ECL86<br>2 × BY114 Silicon rectifiers              |                         |
| <b>Operating Voltage</b>  | 110-125-220-240 V, 50/60 cps.                                     |                         |
| <b>Mains Consumption</b>  | 72 watts  |                         |
| <b>Overall Dimensions</b> |   |                         |
| Chassis                   | 14½" long × 10½" deep × 4½" high<br>(36.2 cm × 26.7 cm × 10.8 cm) |                         |
| Case                      | 16" long × 10½" deep × 5½" high<br>(40.6 cm × 26.7 cm × 14.0 cm)  |                         |
| <b>Weight</b>             |   |                         |
| Chassis                   | 21 lb. (9.5 kilos)  |                         |
| Case                      | 25 lb. (11.3 kilos)   |                         |

(Each amplifier supplied complete with comprehensive Installation and Operation Instructions and all necessary connectors)

**ROGERS DEVELOPMENTS (ELECTRONICS) LIMITED**

RODEVCO WORKS · 4-14 BARMESTON ROAD · CATFORD · LONDON S.E.6 · ENGLAND

Telephone: HITHer Green 7424/4340

Telegrams: RODEVCO LONDON S.E.6