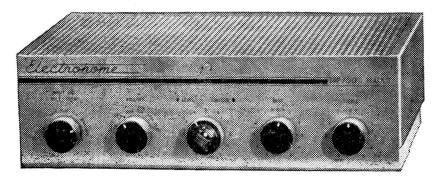
## "VA-100 MK.1" PREAMPLIFIER-EQUALIZER



FREQUENCY RESPONSE

20 to 20,000 cps.

**HUM & NOISE LEVEL** 

85 db. below 2 volts rated output

INTERMODULATION DISTORTION

Less than .5% at 5 volts output

HARMONIC DISTORTION

0.05% at 5 volts output

VOLTAGE GAIN

CONTOUR CONTROL

Designed to provide 20 db. lift at 20 cps.

BASS TONE CONTROL

— Designed to provide 15 db. cut or lift at 50 cps.

TREBLE TONE CONTROL

Designed to provide 15 db. cut or lift at 10,000 cps.

HIGH PASS FILTER SWITCH

2 Position (Rumble Frequencies): FLAT position—Flat response. BASS CUT position—20 db. at 30 cps.

LOW PASS FILTER SWITCH

2 Position (Tweet & Sratch Frequencies): FLAT position—Flat response. TREBLE CUT Position—14 db. at 5 Kc. and —25 db. at 10

**EQUALIZATION** 

24 different equalization curves are available using the roll-off and

roll-over selector switches. Included are equalization curves for Early 78, Columbia LP, RIAA, London LP, FFRR, Flat, etc.

TUBE COMPLEMENT

(3) 12AX7 — (a) Preamp. & Equalizer.

(b) Cathode follower input to filter circuit (Lo-Pass High-Pass), Voltage Amplifier.

(c) Tone control circuitry to Voltage Amplifier to Loudness Control and Low Imped, Coupling stage

Rectifier - (1) 6X4

DC FILAMENT SUPPLY ON PREAMPLIFIER TUBES

POWER CONSUMPTION

20 Watts at 117 Volts 25/60 Cycle

SIZE & WEIGHT

4½" High x 13¼" Wide x 7½" Deep. 9 lbs.

FOUR INPUT JACKS

- Magnetic Phono for low level magnetic cartridge
- \*Radio for connection of AM or AM-FM Tuner.
- \*TV for connection of TV sound to utilize tone controls and other features of the VA-100 in combination with a hi-fi amplifier and speaker system.
- \*Tape for connection of tape reproducing system.

\*These jacks can also be used for connection of phono with a crystal cartridge.

FRONT CONTROLS

- 1. Input & Roll-over Selector
  - 2. Roll-off Selector
  - 3. Level & Contour Control
  - 4. Bass Tone Control
  - 5. Off-on AC Switch and Treble Tone Control

OUTPUT JACKS (2)

- (a) Low impedance to work into minmum load of 250,000 ohms for best results.
  - (b) Output to tape recorder.

REAR CONTROLS

- (a) Hum Balance Control
  - (b) Magnetic, load adjusting control (Phono Input)

All values shown are nominal.