99.60% Perfect Amplification

Any zero VU line level or tuner will drive to full output.

McIntosh 30 Watt Amplifier

Model A-116

Unity coupling guarantees this performance.

At any frequency 20-20,000 cycles, any power output up to 30 watts is a perfect reproduction of input signal within 0.0016.

Full 30 watts, 20-20,000 cycles, less than 0.5% Harmonic Distortion at all 30 watts.
Electrical And Mechanical Specifications

Power Supply: 117/125 volts, 60 cycles
Power Consumption: 135 watts at 30 watts output
105 watts at zero signal output
Power Output: 20 watts continuous
Input Level: Input #1 — 5 volts to 30 volts, with gain control
Input #2 — 2.5 volts, (for use with McIntosh C 104 Pre Amp.)
Frequency Range: 20 to 30,000 cycles ± 1 db at 30 watts output
10 to 50,000 cycles ± 0.5 db at 20 watts output
10 to 100,000 cycles ± 1 db at 15 watts output
Harmonic Distortion: Guaranteed less than 0.5% at 20 watts output or less, 20 to 20,000 cycles.
Intermodulation Distortion: Less than 1% if instantaneous peak power is below 60 watts for any combination of frequencies 20 to 20,000 cycles.
Impulse Distortion: Negligible
Noise and Hum Level: 80 db or more below rated output

Damping Factor: 12 or better for 4, 8 and 16 ohm outputs.
10 for 600 ohms
Input Impedance: 0.3 meg for 2.5 volt input and
0.25 meg for 0.5 volt input from
50 cycles to 40 Kh.
Output Impedance: 4, 8, 16 and 600 ohms (600 ohm is balanced to ground)
Phase Shift: 2.5 Volt input
20 cycles 8.5°
20,000 cycles 4.5°
Tube Complement:
Rectifier: 5U4-G
Pre-Amps: 12AX7
Phase Inverter: 12AU7 or 12BH7
Driver: 12BH7
Output: 2 — 6966-G
Auxiliary Equipment Connection: Designed to power C-104 and other McIntosh Preamplifiers
Size: 12” x 8” x 5” high, chassis type construction
Weight: 33 pounds net
Finish: Grey hammerene

Test set up to measure distortion at very low power

Typical Measurements

<table>
<thead>
<tr>
<th>Power Output</th>
<th>Distortion</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 watts</td>
<td>0.3%</td>
</tr>
<tr>
<td>15 watts</td>
<td>0.18%</td>
</tr>
<tr>
<td>1.5 watts</td>
<td>0.15%</td>
</tr>
<tr>
<td>157 milliwatts</td>
<td>0.15%</td>
</tr>
<tr>
<td>15 milliwatts</td>
<td>0.15%</td>
</tr>
<tr>
<td>1.5 milliwatts</td>
<td>0.35% (Noise Level)</td>
</tr>
</tbody>
</table>

Because of the unique design of the McIntosh Output Transformer, the high efficiency of Class "B" amplification can be used with wide band, distortion free performance. The McIntosh Circuit guarantees substantially less than 5% distortion at all frequencies 20-20,000 cycles even at full power output.

The McIntosh Circuit Patents 2477074 and 2543788. Others pending.

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