

MC2102
Vacuum Tube
Power Amplifier



“high bandwidth in a tube amplifier thanks to an innovative McIntosh circuit”

2005
Amplifier
of the Year
The Absolute Sound

GREAT
American
CLASSIC
Men's Journal Magazine

Almost fifty years ago Frank McIntosh and Gordon Gow invented and patented the McIntosh Unity Coupled Output Circuit. Two features differentiate from other designs. First, the output tubes deliver power from both their plates (anodes) and their cathodes, not from their plates alone as in conventional circuits. Second, the output transformer's two bifilar primary windings give it one-half the turns ratio of conventional transformers, equating to one-fourth the impedance ratio. This allows a close coupling of the primary and secondary windings, resulting in wide bandwidth, flat frequency response, and low distortion. The MC2102 is at once a tribute to the past and present McIntosh.

This characteristic is ideal for both analog and the latest ultra high-resolution digital formats.

The MC2102 will deliver 100 watts per channel into a full 20-20,000Hz band, and deliver that power with 8, 4, or 2 ohm speakers.

Balanced and unbalanced inputs and huge gold-plated speaker terminals provide the connectivity you need.

Dual Monoblock Amplifier with
All Signal Amplification by tubes
Tube Complement
(8) KT88
(4) 12AX7A Input Tubes
(4) 12AT7 Driver Tubes
Ceramic Tube Sockets with
Gold-Plated Contacts
Patented Unity Coupled Circuit with
Bifilar-Wound Output Transformers
Soft-Start Inrush Protection
Remote Power Control Trigger

A Tradition of Excellence



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UNITY COUPLING

The McIntosh Unity Coupled Output Circuit with four output tubes (KT88) per channel in a push-pull parallel configuration for high power of 100 watts per channel.

ACCURATE METERS

The illuminated peak-responding meters display output power in watts. Response is almost 10 times faster than a VU meter.

HIGH CONNECTIVITY

Balanced input connectors guard against noise pick up and allow long input cable runs without compromising sound quality.

Huge Gold-Plated Output Posts with connections for 2, 4, and 8 ohms. This ensures you get all the power you paid for with any type of loudspeakers.

Mono-Bridge and Mono-Parallel modes enable the MC2102 to deliver a full 200 watts as a mono amplifier into 1, 2, 4, 8 or 16 ohm loads.

FREEDOM FROM DISTORTION

Low Distortion is a hallmark of McIntosh tube amplifiers. Distortion remains under 0.5% THD and IM over the complete range of 20-20kHz.

POWER OUTPUT STEREO

Minimum sine wave continuous average power output per channel, all channels operating is:
100 watts into 2 ohm load
100 watts into 4 ohm load
100 watts into 8 ohm load

POWER OUTPUT MONO PARALLEL

Minimum sine wave continuous average power output is:
200 watts into 1 ohm,
2 ohm or 4 ohm load.

POWER OUTPUT MONO BRIDGE

Minimum sine wave continuous average power output is:
200 watts into 4 ohm,
8 ohm or 16 ohm load

RATED POWER BAND

20Hz to 20kHz

TOTAL HARMONIC DISTORTION

0.05% max at any power level from 250 milliwatts to rated power output is:
0.5% for 2, 4 or 8 ohm loads (stereo)
0.5% for 1, 2 or 4 ohm loads (mono parallel)
0.5% for 4, 8, or 16 ohm loads (mono bridge)

FREQUENCY RESPONSE

20Hz to 20kHz, +0 / -0.25dB
10Hz to 100kHz, +0 / -3dB

SENSITIVITY

2.5V unbalanced inputs
5.0V balanced inputs

A-WEIGHTED SIGNAL-TO-NOISE RATIO

100dB below rated output

WIDE BAND DAMPING FACTOR

Greater than 18

OUTPUT LOAD IMPEDANCE

Terminals for 2, 4, or 8 ohms (stereo)
Terminals for 1, 2, or 4 ohms (mono parallel)
Terminals for 4, 8, or 16 ohms (mono bridged)

INTERMODULATION DISTORTION

SMPTE 0.5% maximum if instantaneous peak output does not exceed twice the output rating.

INPUT IMPEDANCE

20,000 ohms (unbalanced)
40,000 ohms (balanced)

POWER REQUIREMENTS

120V, 50/60Hz, 5.0A

OVERALL DIMENSIONS

(H x W x D including feet and knobs)

10-1/8" (25.72cm) x 17-3/4" (45.54cm) x 17" (43.18cm)

WEIGHT

88 lbs. (40.87kg) net
121lbs. (54.9kg) boxed

Designed by McIntosh co-founder Sidney A. Corderman and the McIntosh Engineering Staff

Stereo: 100 watts per channel (8/4/2 ohm)

Mono parallel: 200 watts per channel (4/2/1 ohms)

Mono bridged: 200 watts per channel (16/8/4 ohms)

Air-pipe cooling at base for output tubes

Gold-plated input jacks

Gold-plated 200A multi-way output binding posts

