

MC2102 VACUUM TUBE POWER AMPLIFIER



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.

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

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

McIntosh®

LEGENDARY™

MC2102 VACUUM TUBE POWER AMPLIFIER



CUSTOM OUTPUT TRANSFORMER

Unique McIntosh-wound transformer delivers the full rated amplifier output with the least possible distortion and maximum bandwidth into loudspeaker impedances of 2, 4, or 8 Ohms; you get all the power you paid for and the freedom to choose any loudspeaker.

WATTMETER

Swift, accurate response reveals program peaks so staying within the power limits of your loudspeakers is easy.

BALANCED INPUTS

Allows the use balanced cables for 40dB better rejection of induced noise.

MONO MODES

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.

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"

WEIGHT

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

ADDITIONAL SPECIFICATION

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

FOR THE CONSUMER'S PROTECTION

In order to ensure the highest level of customer satisfaction, "new" McIntosh products may only be purchased over-the-counter or delivered and installed by an Authorized McIntosh Dealer.

McIntosh products that are purchased over the Internet, by phone or mail order are presumed to be "used" and do not qualify for any McIntosh Warranty. McIntosh does not warrant, in any way, products that are purchased from anyone who is not an Authorized Dealer or products that have had their serial number altered or defaced.

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