

**C220**  
**Vacuum Tube**  
**Preamplifier**



**“a flexible yet purist design that maintains the highest quality two channel audio performance”**

The McIntosh C220 is an amalgamation of McIntosh's 56+ years expertise in tube design and newly developed control circuits. It has all the flexibility modern systems require while maintaining the highest quality two channel performance.

As an example, all signal switching is done inside glass cylinders filled with inert gas. These switches are located adjacent to the input/output jacks, virtually eliminating crosstalk. Switch cleaning is a thing of the past.

The C220 allows for electronic, independent adjustment level settings for each of the eight source inputs from either the front panel or remote control. Channel Balance is electronically adjusted and stored in memory.

Particular attention has been paid to the MM Phono Input. Its innovative circuit incorporates time-proven 12AX7 vacuum tubes. The brilliance of its design is reflected in both its simplicity and superior performance.

The C220's bypassable, low distortion Bass and Treble controls will prove invaluable for older recordings or may be bypassed when not needed.

**Complete Input Versatility**

**7 Unbalanced High-Level Inputs**

**2 Balanced (XLR) Inputs**

**Moving Magnet Phono Input**

**Multi-Output Flexibility**

**3 Pairs of Unbalanced Outputs**

**2 Pairs Switched plus 1 Pair Fixed**

**1 Pair Balanced (XLR) Outputs**

**1/4" Headphone Jack**

**Front Panel Headphone Mute Mode**

**Hand Held System Remote**

**External Remote Sensor Jack**

**Fiber Optic Panel Illumination**

POWER OUTPUT

*A Tradition of Excellence*



McIntosh Laboratory, Inc. 2 Chambers Street, Binghamton, New York 13903-2699  
Tel (607) 723-3512 • US Toll-Free (800) 538-6576 • Fax: (607) 724-0549 • www.mcintoshlabs.com

*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.*

## C220 Vacuum Tube Preamplifier

### ADVANCED VOLUME CONTROL

The McIntosh two stage VRV (Variable Rate Volume) Control is electronic in action. It never wears or needs cleaning, and keeps channels matched to within an amazing 1/10th of 1dB

### CUSTOMIZABLE INPUTS

The inputs can be renamed from an internal list to match the needs of the user. Unused inputs can be deleted from the display and level matching between inputs is provided.

### POWER SUPPLY DESIGN

Multiple stages of regulation ensure top performance unaffected by power fluctuations. The R-Core transformer radiates no hum that could otherwise compromise the preamplifier's low noise floor.

### COMPANION PRODUCTS



The MC275 Tube Amplifier and the MCD201 SACD/CD Player are logical companions for the C220. Your Authorized Dealer can provide additional information on other McIntosh product combinations.

### FREQUENCY RESPONSE

+0, -0.5dB from 20Hz to 20,000Hz

### TOTAL HARMONIC DISTORTION

0.08% from 20Hz to 20,000Hz

### MAIN OUTPUT

2.5V for rated input

### MAXIMUM VOLTAGE OUTPUT

8V RMS Unbalanced  
16V RMS Balanced

### SENSITIVITY (for rated output)

High Level: 450mV Unbalanced,  
900mV Balanced  
Phono: 4.5mV

### SIGNAL-TO-NOISE RATIO (A-Rated)

High Level, 90dB below rated output  
Phono: 80dB below 10mV input

### INPUT IMPEDANCE

High Level: 22K ohms  
Phono: 47K ohms; 65pF

### MAXIMUM INPUT SIGNAL

High Level: 5V Unbalanced,  
10V Balanced  
Phono: 50mV (@ 1,000Hz)

### OUTPUT IMPEDANCE

250 ohms

### VOLTAGE GAIN

High Level to Tape Output: 0dB  
High Level to Main Output: 15dB  
Phono to Main Output: 55dB

### HEADPHONE OUTPUT IMPEDANCE

16 ohms to 250 ohms

### TUBE COMPLIMENT

Phono Circuitry: 2-12AX7A  
High Level Circuitry: 2-12AX7A

### POWER REQUIREMENTS

100 Volts, 50/60Hz at 75 Watts  
110 Volts, 50/60Hz at 75 Watts  
120 Volts, 50/60Hz at 75 Watts  
220 Volts, 50/60Hz at 75 Watts  
230 Volts, 50/60Hz at 75 Watts  
240 Volts, 50/60Hz at 75 Watts

### OVERALL DIMENSIONS (H x W x D including front panel, knobs and cables)

6" (15.24cm) x 17-1/2" (44.45cm) x 18" (45.72cm)

### WEIGHT

21 lbs. (9.59Kg) net, 37.5 lbs. (17.1Kg) in shipping carton

