

# McIntosh

McIntosh  
MR 75

The McIntosh MR 75 AM-FM Stereo Tuner is a superb instrument incorporating the latest high technology tuner circuits from McIntosh engineering. When you use this fine tuner you will discover more FM stations with good quality than you have ever heard before. The unique McIntosh AM circuit represents the most advanced techniques that bring about a re-discovery of AM. The McIntosh MR 75 can be used with other McIntosh products such as an integrated preamp-amplifier or separate preamplifier and power amplifier.

## MR 75 AM-FM STEREO TUNER

### FM AFL AUTOMATIC FREQUENCY LOCK

The Automatic Frequency Lock is a patented McIntosh circuit that activates when you tune to the center frequency of an FM station. A varactor diode fine tunes the tuner with a correction voltage from the AFL circuit. When the center ON-STATION vertical LED indicator lights, the AFL circuit is in operation and the tuner stays locked to the signal. There will be no drift from this accurate tuning, insuring minimum distortion and best performance.

### AUTOMATIC STEREO NOISE SUPPRESSION

A new third generation phase locked loop stereo decoder incorporates a unique variable stereo separation—noise reduction control circuit. This circuit operates from the IF amplifier signal strength detector. When listening to weak or distant FM stations, optimum stereo separation and signal to noise ratio is automatically provided. You get a smooth transition between stereo and mono depending on the prevailing signal conditions. This means that with the McIntosh MR 75 you always get the most noise-free reception of weaker stereo signals. Since this circuit automatically adjusts in varying amounts, you never hear the abrupt switching present in conventional circuits.

### ELECTRONIC RF SELECTIVITY SWITCHING

A back panel switch gives additional FM RF selectivity for best performance in areas with extremely strong station signal strengths. This switch directs a DC voltage to PIN semiconductor diodes which electronically perform the RF switching functions.

### UNIQUE AM TUNER SECTION

The AM tuner section in the McIntosh MR 75 is unique in design for a superheterodyne receiver. The AM RF amplifier circuit has constant selectivity, constant sensitivity and high image rejection across the complete AM band. In addition there is no loss of frequency response at the low end of the band. No conventional AM circuit can offer all these performance features simultaneously.

### HEADPHONE/OUTPUT AMPLIFIER

The headphone amplifier is capable of driving a pair of dynamic headphones with less than 0.02% harmonic distortion. Because of its extremely low distortion and power capability, it is also the main output preamplifier.



SHOWN IN OPTIONAL WALNUT VENEER CABINET



# Performance Limits and Ratings

Performance limits are the maximum deviation from perfection permitted for a McIntosh instrument. We promise you that when you purchase a new MR 75 from a McIntosh Franchised dealer it will be capable of performance at or exceeding these limits or you can return the unit and get your money back. McIntosh is the only manufacturer that makes this statement.

## FM SECTION

### TUNING

88 to 108 MHz

### ANTENNA INPUTS

One 300 $\Omega$  balanced and one 75 $\Omega$  unbalanced.

### INTERMEDIATE FREQUENCY

10.7 MHz

### USABLE SENSITIVITY

2 $\mu$ V (11.2 dBf) IHF

### QUIETING SENSITIVITY

5 $\mu$ V (19.1 dBf) IHF -50 dB (Mono)

50 $\mu$ V (39.5 dBf) IHF -50 dB (Stereo)

### SIGNAL TO NOISE RATIO

70 dB IHF minimum both Mono and Stereo

### HARMONIC DISTORTION

0.18% (Mono) IHF maximum

0.38% (Stereo) IHF maximum

### ALTERNATE CHANNEL SELECTIVITY

75 dB IHF minimum

### IMAGE REJECTION

100 dB IHF minimum

### STEREO SEPARATION

45 dB minimum at 1 kHz

## AUDIO FREQUENCY RESPONSE

20 Hz to 15 kHz +0, -1 dB

## CAPTURE RATIO

1.8 dB

## SPURIOUS REJECTION

100 dB IHF minimum

## SCA REJECTION

60 dB minimum

## AM SECTION

### SENSITIVITY

75 $\mu$ V IHF with external antenna

### SIGNAL TO NOISE RATIO

45 dB minimum IHF or 55 dB at 100% modulation

### FREQUENCY RESPONSE

+0 -6 dB from 20 Hz to 3500 Hz

### HARMONIC DISTORTION

0.8% maximum at 30% modulation

### ADJACENT CHANNEL SELECTIVITY

30 dB minimum IHF

### IMAGE REJECTION

65 dB minimum from 550 kHz to 1600 kHz

## GENERAL INFORMATION

### AUDIO OUTPUT

Variable:

2.5V into 47k $\Omega$

Fixed:

1V into 47k $\Omega$

## AUDIO HUM

95 dB down from 100% modulation

## POWER REQUIREMENT

120 Volts 50/60 Hz, 20 Watts

## SEMI CONDUCTOR COMPLEMENT

22 Bipolar Transistors

4 Field Effect Transistors

23 Silicon Diodes

15 Integrated Circuits

19 LED's

2 Bridge Rectifiers

## MECHANICAL INFORMATION

### SIZE:

Front panel measures 16 inches wide (40.6 cm) by 5 7/16 inches high (13.8 cm). Chassis measures 14 3/4 inches wide (37.5 cm) by 4 13/16 inches high (12.2 cm) by 13 inches deep (33 cm), including connectors. Knob clearance required is 1 1/4 inches (3.2 cm) in front of mounting panel.

### FINISH:

Front panel is anodized gold and black with special gold/teal nomenclature illumination. Chassis is black.

### MOUNTING:

Exclusive McIntosh developed professional PANLOC

### WEIGHT:

23 pounds (10.43 kg) net, 35 pounds (15.88 kg) in shipping carton.

# Why You Should Own McIntosh

- McIntosh instruments are designed and manufactured for long life.
- McIntosh instruments have always been designed for long life with low maintenance costs and high quality performance. McIntosh instruments have been and are the LABORATORY STANDARD for the world. Until 1949 the performance requirements for a McIntosh had long been an engineering dream. They became a reality with the introduction of the first McIntosh amplifier. Through all these years McIntosh has produced instruments that have exceptionally long life. Regardless of age, most McIntosh instruments are still in use today. Amplifier clinics held all over North America have shown that most of the McIntosh instruments ever manufactured are still in service today and still meet or exceed original exacting requirements for performance that were required of them when new.
- Used McIntosh instruments enjoy the highest resale value in this field. Retailers report that customers are constantly searching for used McIntosh instruments. A McIntosh does not remain on the "Used" display long. You'll get more when you trade-in your McIntosh assuring you of maximum return on your investment.
- McIntosh dedication, not only to improvements, but also to fundamentals, has justified many patents on refinements as well as basic circuit structures.
- The size of the McIntosh investment in professional testing instruments bears eloquent testimony to the commitment to acquire knowledge for the benefit of our customers. On a percentage basis McIntosh probably invests more of its sales dollars in testing facilities than anyone else in a like business. As new testing instruments are produced that update the McIntosh ability to know, McIntosh invests in them...wave form analyzers—real time analyzers—low distortion signal generators, etc. Only through this impressive investment, through continuous testing and research, through product analysis, and endless measurement can McIntosh promise and deliver to you reliability, long life, performance, highest value, and freedom from service.
- Since its beginning in 1949, McIntosh Laboratory has had the same management. McIntosh is the only company in this industry that has had this kind of history. McIntosh has been and is still dedicated to the best possible value.
- Doesn't it make good sense to deal with a company that wants to do as much for you as it possibly can?

FRANCHISED DEALER:

# McIntosh

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The continuous improvement of its products is the policy of McIntosh Laboratory Incorporated, who reserves the right to improve design without notice.