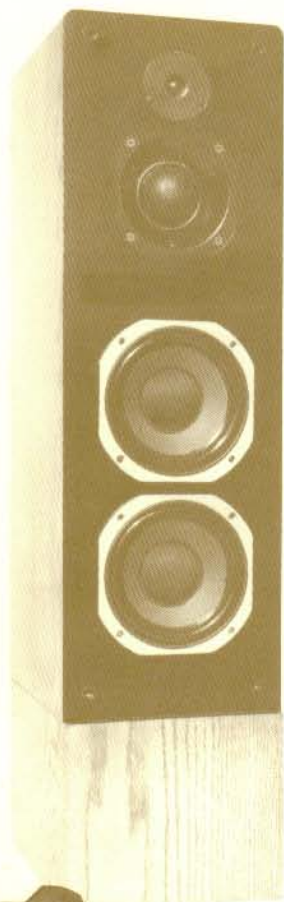


NEW model 8-04/B LOUDSPEAKER



- **THREE-WAY, FLOOR-STANDING**
- **FULL DYNAMIC RANGE, 120 dB SPL**
Most of any single-midrange loudspeaker in the world
- **ULTRA-LOW DISTORTION**
Under 0.35% at 110 dB
- **HAND-TUNED CROSSOVER**
- **HIGH EFFICIENCY**
- **BI-AMPABLE**
- **ADJUSTABLE BASS LOADING**
- **MODEL 1204 SUBWOOFER OPTIONAL**

New Features:

- **NEW CROSSOVER TIME-ALIGNMENT**
- **IMPROVED SOUNDSTAGE OPENNESS**
- **EFFICIENCY HIGHER BY 2 dB**
- **NEW 4-FOOT CABINET HEIGHT**
Better listening height and improved bass
- **IMPEDANCE INCREASED TO 8 ohms**
Easy load to drive

*Not just an Improvement -
a Breakthrough
in Sound Reproduction!*

How does one obtain the unbeatable soundstage of a good mini-monitor and the true dynamics of a large horn driver in one loudspeaker? Nelson-Reed has solved this problem. We first designed a single, low-distortion midrange driver incorporating a 160-ounce magnet assembly, making this 3-inch dome as powerful as ten conventional midranges. We then designed a loudspeaker around our midrange with a very open soundstage and unlimited dynamic range.

Previous designers have tried to work around this problem with limited success, using endless combinations of multiple cone arrays, horn loading, and drivers pointing in different directions. Nelson-Reed's solution is direct and scientific. We have created a loudspeaker with the legendary mini-monitor soundstaging and the sonic power of the largest horn or multiple array system... **the new 8-04/B.**

As reviewed in

stereophile

Excerpts from J. Gordon Holt, April 1988, Volume 11, Number 4.

"This is one of the most alive and punchy—dare I say 'dynamic?'—speaker systems I have heard for some time. I don't know whether to attribute this to its frequency response, its dynamic range, or its unusually high efficiency (or, possibly, all three)...."

"...if it's emotional involvement you're looking for from your reproduced music, these will provide it, from a wider variety of musical fare than any other speakers I know of...these are very

musical speakers, that do for me what I ask of reproduced sound."

SOUNDSTAGE...

"These speakers can float a soundstage almost as well as the smallest mini-monitors, placing the performers (with appropriate recordings) between the speakers rather than stretching them from speaker to speaker."

BASS...

"...the 8-04/B produced some of the highest-quality bass I have heard for some time."

MODEL 1204 SUBWOOFERS...

"They produced what was without a doubt the deepest low end I have ever heard in my listening room. And the quality of that bass was outstanding, too."

"The Nelson-Reed 1204s are excellent subwoofers, well worth

their price in my opinion. And the combination of one or two of these, and the 8-04/Bs, yields what I feel to be a near-state-of-the-art, supremely musical system that may be hard to beat, especially at this price. I am impressed."

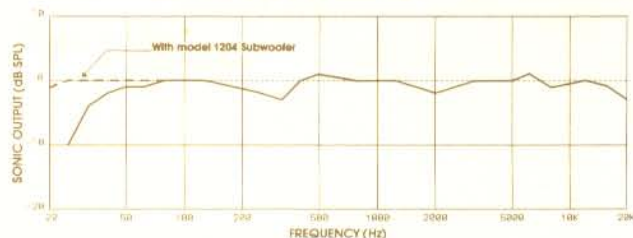
TECHNICAL DATA / MODEL 8-04/B LOUDSPEAKER

SPECIFICATIONS:

Frequency Response: ± 3 dB, 32 Hz to 20 kHz guaranteed (± 2 dB typical)
with 1204 Subwoofer: ± 3 dB, 16 Hz to 20 kHz guaranteed (± 2 dB typical)
Corner Frequencies: -10 dB @ 25 Hz and 30 kHz, -3 dB @ 32 Hz
with 1204 Subwoofer: -10 dB @ 12 Hz and 30 kHz, -3 dB @ 16 Hz
Sensitivity: 93 dB @ 1M @ 1W
Nominal Impedance: 8 Ohms
Power Handling: 500 Watts Music (120 dB SPL)
with 1204 Subwoofer: 1000 Watts Music (123 dB SPL)
Linear Music Power*: 320 Watts (115 dB SPL)
RMS Continuous: 100 W RMS 50 Hz to 250 Hz (113 dB SPL)
 75 W RMS 250 Hz to 4 kHz (112 dB SPL)
 10 W RMS 4 kHz to 20 kHz (93 dB SPL)
Distortion: Under 0.15% @ 1 kHz @ 100 dB SPL
 Under 0.35% @ 1 kHz @ 110 dB SPL
Driver Types — Woofer: Two 8-inch fiber cones, 40-oz. magnets
Midrange: 3-inch dome, 160-oz. magnet
Tweeter: $\frac{3}{4}$ -inch ferro-fluid soft dome
Crossover Frequencies: 320 Hz, 4 kHz
with 1204 Subwoofer: 62 Hz
Crossover Type: Proprietary, minimal phase shift, hand-tuned
with 1204 Subwoofer: Active Crossover, model AC-1204
System Q: 0.7
Thermal Protection: 3 amp fast-blow fuse, low-frequency inputs
 2 amp fast-blow fuse, high-frequency inputs
 Low distortion bypassed
Cabinet Finish: Oiled Oak or Walnut, or Diamond-Black Lacquer
Size and Weight: 47"H x 12"W x 15"D, 100 lbs.

* Compressed music simulation defined by a burst of 10 cycles @ 1 kHz @ 20% duty cycle causing acoustic output loss of 3 dB.

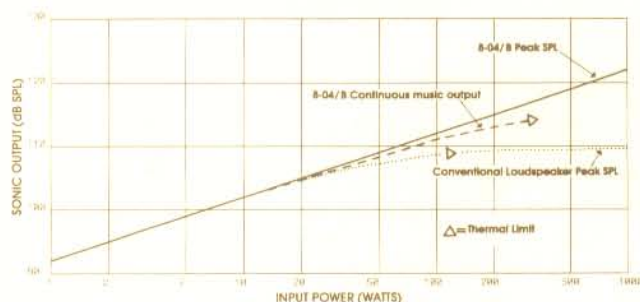
FREQUENCY RESPONSE



Individually hand-tuned crossovers ensure flat frequency response within ± 3 dB from 32 Hz to 20 kHz. The optional 1204 subwoofer extends the bass to below 16 Hz.

POWER COMPRESSION

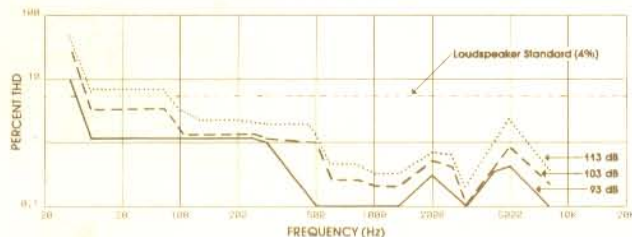
Measured at 1 kHz



The musical peak power output (SPL) of the 8-04/B is ten times (10 dB) greater than conventional single-midrange loudspeakers.

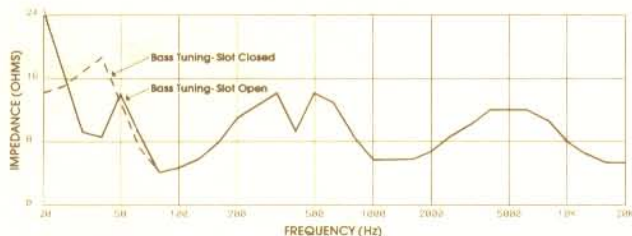
TOTAL HARMONIC DISTORTION

Measured at three power levels



Harmonic distortion in the critical 1 to 4 kHz midrange frequencies is less than 1/10 typical loudspeaker standards.

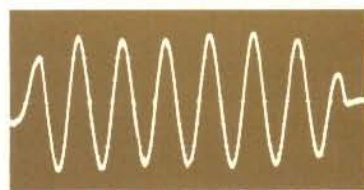
IMPEDANCE



Impedance stays within a few ohms of the nominal 8 ohms, making the 8-04/B an easy load for any amplifier.

TONE BURST TEST

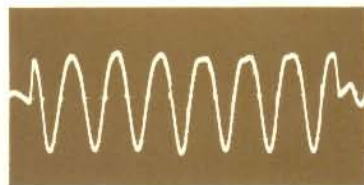
8-04/B



8-04/B

The clarity of the tone illustrates low harmonic distortion and minimal power compression. A 1 kHz, 125 watt tone burst shows that 114 dB musical peaks are cleanly reproduced with the 8-04/B.

Conventional Loudspeaker



Conventional Loudspeaker

The same tone reproduced by a conventional cone midrange shows musical peaks of lower amplitude, exhibiting power compression. Also, the signal is distorted.