TFR94 Specifications

- **Loudspeaker Type:** 3-way, horn loaded
- **Operating Range:** 70 Hz - 18 kHz
- **Max Input (Passive):** 600W continuous, 1500W program
- **Recommended Power Amp:** 1250W to 1800W @ 4 Ohms
- **Maximum Inputs (Triamp):**
  - **LF:** (Same as for Passive mode)
  - **MF:** 75W continuous, 200W program
    - 24 volts RMS, 75 volts momentary peak
  - **HF:** 100W continuous, 400W program
    - 28 volts RMS, 80 volts momentary peak
- **Sensitivities 1W/1m:**
  - **LF:** 108 dB SPL (80 Hz - 630 Hz 1/3 octave bands)
  - **MF:** 114 dB SPL (630 Hz - 4000 Hz 1/3 octave bands)
  - **HF:** 112 dB SPL (4000 Hz - 12500 Hz 1/3 octave bands)
- **Nominal Impedance (passive):** 4 Ohms
- **Nominal Impedances (Triamp):**
  - **LF:** 4 Ohms
  - **MF:** 8 Ohms
  - **HF:** 8 Ohms
- **Nominal -6dB Beamwidth:**
  - **H:** 90° (-6° / -20°, 1600 Hz - 16000 Hz)
  - **V:** 40° (+9° / -11°, 1600 Hz - 16000 Hz)
- **Axial Q / DI:** 20.4 / 13.1, 1.6 kHz - 16 kHz
- **Crossover Frequencies:** 630 Hz / 4 kHz
- **Recommended Signal Processing:**
  - 70 Hz - 700 Hz crossover (for biamp)
  - 700 Hz - 4 kHz crossover (for triamp)
- **Drivers:**
  - **LF:** (2) 12” cast frame
  - **MF:** (1) M200, 2” (51mm) exit, low compression driver with non-metallic diaphragm
  - **HF:** (1) UC2, 2” (51mm) exit, low compression driver with non-metallic diaphragm
- **Input Connections:** Neutrik NL8MP (tri-amp), NL4 (passive/bi-amp)
- **Enclosure:** 13-ply 18 mm Baltic Birch
- **Enclosure Hardware:** (10) Ergo-Grip handles
- **Mounting / Rigging Provisions:**
  - 8) 3/8-16 rigging points, W.L.L. 300 lb. vertical pull each
  - (3) seat track
- **Grille:** 16 gauge perforated steel (see options)
- **Required Accessories:** Digital Signal Processor
- **Supplied Accessories:** None
- **Optional Accessories:** 3/8-EYLBTKIT: (4) forged 3/8-16 eyebolts, Digital speaker controller, TFRP: Joiner Plate connects adjacent TFR FLY-BAR, TFR-FB: Single flybar, TFR-RAFRAC: Rear seat track mount, TFR-COVER, TFR-DOLLY, TFR-RIGCABLE, SKIP1, SKIP5
- **Dimensions:**
  - **Height:** 25.1 in. / 637.5 mm
  - **Width Front:** 25.45 in. / 646.4 mm
  - **Width Rear:** 12.1 in. / 307.3 mm
  - **Depth:** 33.55 in. / 852.2 mm
  - **Weight:** 155 lb. / 70.3 kg
  - **Shipping Weight:** 161 lb. / 73 kg

1. Sensitivity: Free field pink noise measurement at 40 ft / 12.2 m at 50% power; extrapolated to 1 meter and an input of 2 volts RMS.
2. Watts: All wattage figures are calculated using the rated nominal impedance.

**Applications:**
- Full-Spectrum, Center Cluster Reinforcement for Churches, Auditoriums, etc.
- Dance/Nightclubs
- Athletic Field Houses (basketball, skating/ice hockey rinks, etc.)
- Convention Centers, Stadia

**Features:**
- Drivers: LF (2) 12” cast frame
- MF (1) M200, 2” (51mm) exit, low compression driver with non-metallic diaphragm
- HF (1) UC2, 2” (51mm) exit, low compression driver with non-metallic diaphragm
- Trapezoidal Baltic Birch enclosure ships with a Tri-amp input panel
- Passive/Biamp crossover available
- Input Connections: Neutrik NL4 (passive/bi-amp), NL8 (tri-amp)
- Four top/bottom eye-bolt rigging points.

**Description:**
The TFR94 is an all horn-loaded tri-axial design using precision, hand-laminated fiberglass, proprietary waveguides to deliver quality, full-range sound projection in short throw applications. Its wide, smooth frequency response and high efficiency provide superb projection of clear, intelligible speech and ensure high-fidelity music reproduction at very low distortion.

The outer TFR94 enclosure forms a double wall construction, while the mid/high frequency horn assembly is mounted in the mouth of the bass horn. The unique TFR94 mid/HF horn uses single M200 mid-range and UC2 HF drivers for symmetrical 90°H x 40°V coverage. For flexibility, a switchable, high quality passive crossover/bi-amp input panel is available.

Five-year limited non-component warranty.
Two-year limited component warranty.
The TFR94 loudspeaker system shall be a horn-loaded, three-way, full-range bass reflex trapezoidal design with two 12”woofers, plus one 2” exit mid-range driver with a non-metallic diaphragm, and one 2” exit HF driver with a non-metallic diaphragm mounted to an integrated, interchangeable MF/HF fiberglass waveguide module. Crossover frequencies shall be 630 Hz and 4000 Hz. There shall be two NL8MP (tri-amp) connectors. The system shall meet the following performance criteria: Overall amplitude response of 80Hz to 16 kHz (+/-2dB) with LF section amplitude response 70-630Hz, mid-range section amplitude response 630 Hz-4000 Hz, and HF section amplitude response 4000 Hz-16 kHz (+/-2dB). Tri-amp mode power handling shall achieve, 600W RMS and 1200W PGM for LF, 75W RMS and 200W PGM for mid-range and 100W RMS and 400W PGM for HF (@4kHz/24dB HPF). NOTE: HF bandpass NOT accessible in passive mode. The loudspeaker enclosure shall be well-braced 18mm 13-ply Baltic birch with a black powder-coated 16 gauge perforated steel grille. The enclosure is finished with black TufCoat™. There shall be eight 3/8in-16(threads per inch) integral threaded insert mounting points connected to top and bottom internal steel bracing. The LF sensitivity is 108 dB SPL/1W @ 4 ohms. The MF sensitivity is 114 dB SPL/1W @ 8 ohms. The HF sensitivity is 112 dB/1W @ 8 ohms. Nominal dispersion shall be 90°H x 40°V from 1.6 kHz to 16 kHz. The loudspeaker shall be 25.1”(637.5mm) H, 25.45”(646.4mm) W(front), 12.1”(309.88mm) W(rear) x 33.55”(852.2mm) D and weigh 155lbs (70.3kg). The three-way, full-range loudspeaker system shall be the Community Model TFR94.