

T-CLASS / TFR94

PROFESSIONAL LOUDSPEAKERS THREE-WAY TRIAMPLIFIED 90° X 40° HIGH OUTPUT HORN SYSTEM

SPECIFICATIONS (See notes 1 and 2)

Loudspeaker Type: 3-way, horn loaded **Operating Range:** 70 Hz - 18 kHz

80 Hz - 16 kHz (+/-2dB)

Max Input (Passive): 600W continuous, 1500W program

49 volts RMS, 110 volts momentary peak

Recommended Power Amp:1250W to 1800W @ 4 Ohms

Maximum Inputs (Triamp):

LF:(Same as for Passive mode) **Recommended LF Power Amp:** (Same as for Passive mode)

MF:75W continuous, 200W program 24 volts RMS, 57 volts momentary peak

Recommended MF Power Amp: 170W to 240W @ 8 Ohms

HF:100W continuous, 400W program 28 volts RMS, 80 volts momentary peak

Recommended HF Power Amp: 330W to 480W @ 8 Ohms

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)

136 dB SPL / 143 dB SPL (peak) **Maximum Output:**

Nominal Impedance (passive): 4 Ohms

3.7 Ohms @ 110 Hz Min Impedance:

Nominal Impedances (Triamp): LF: 4 Ohms MF: 8 Ohms

HF: 8 Ohms

Nominal -6dB Beamwidth:

 90° H (-6° / -20°, 1600 Hz - 16000 Hz) 40° V (+9° / -11°, 1600 Hz - 16000 Hz) 20.4 / 13.1, 1.6 kHz - 16 kHz Axial Q / DI:

Crossover Frequencies: 630 Hz / 4 kHz **Recommended Signal Processing:**

70 Hz - 700 Hz crossover (for biamp) 700 Hz - 4 kHz crossover (for triamp)

70 Hz high pass filter **Drivers:** LF (2) 12' MF (1) M200

HF (1) UC2

Input Connection: (2) Neutrik NL8MP, (tri-amp)

(3) dual banana jacks

Controls: None

13-ply 18 mm Baltic Birch **Enclosure: 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 Processer

Supplied Accessories: None

3/8-EYBLTKIT: (4) forged 3/8-16 eyebolts, **Optional Accessories:** Digital speaker controller, TFRJP: 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:

The TFR94 is well suited for use as a stand-alone element, or as a distributed system loudspeaker in properly configured indoor applications including:

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

DESIGN BENEFITS:

- · High Efficiency Horn Loading
- High-Fidelity, Full-Range Reproduction of Music and Speech

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 highfidelity 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.

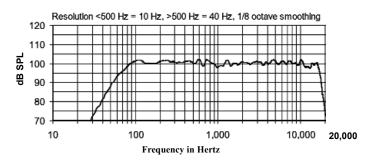
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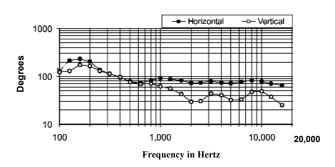
T-CLASS / TFR94

THREE-WAY TRIAMPLIFIED 90° X 40° HIGH OUTPUT HORN SYSTEM

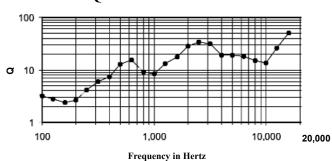
FULL-RANGE FREQUENCY RESPONSE



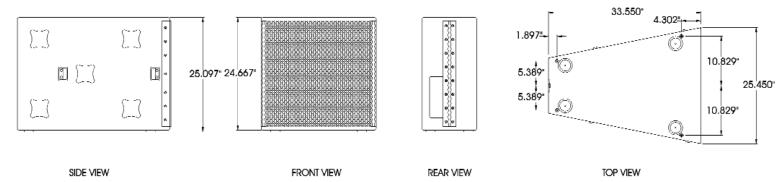
BEAM WIDTH



AXIAL Q



DIMENSIONS



ARCHITECTS AND ENGINEERS SPECIFICATIONS

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 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 accessable 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 TufCoatTM. 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/IW @ 4 ohms. The MF sensitivity is 114 dB SPL/IW @ 8 ohms. The HF sensitivity is 112 dB/IW @ 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.

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