

T-CLASS / TFR34A

PROFESSIONAL LOUDSPEAKERS THREE-WAY TRIAMPLIFIED 30° X 40° HIGH OUTPUT HORN SYSTEM

SPECIFICATIONS (See notes 1 and 2)

Loudspeaker Type: 3-way, horn loaded **Operating Range:** 60 Hz - 18 kHz

70 Hz - 17 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: 112 dB SPL (630 Hz - 4000 Hz 1/3 octave bands) HF: 117 dB SPL (4000 Hz - 12500 Hz 1/3 octave bands)

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

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:

 30° H (+43° / -7°, 2000 Hz - 16000 Hz)

28.5 / 14.5, 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)

(2) Neutrik NL4MP, (passive/bi-amp)

(3) dual banana jacks **Controls:** Passive / Bi-amp switch **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 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: 33.5 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 TFR34A 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
- Asymmetrical Coverage Pattern
- High-Fidelity, Full-Range Reproduction of Music And Speech

FEATURES.

- Drivers: LF (2) 12" cast frame
- 40° V (0° above 40° below plane) (+23° / -10°, 2000 Hz 16000 Hz) 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 TFR34A 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 downfill 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 TFR34A enclosure forms a double wall construction, while the mid/high frequency horn assembly is mounted in the mouth of the bass horn. The unique TFR34A mid/HF horn uses single M200 mid-range and a UC2 HF driver for asymmetrical 30°H x 40°V coverage. Intensity is highest on axis and drops off as down angle increases. Asymetrically, vertical coverage is 0° up and 40° down. For flexibility, a switchable, high quality passive crossover/bi-amp input panel is available.

The TFR34A permits good down-angle coverage from a dead-hung array, especially where TFR34As can be interspersed with TSS subwoofers. The TFR34A is also appropriate where a section of the listening area is positioned above the loudspeaker array and can be used in vertical pairs with the upper cabinet inverted in situations requiring 80°V coverage.

Five-year limited non-component warranty. Two-year limited component warranty.

Page 1 of 2

COMMUNITY PROFESSIONAL LOUDSPEAKERS 333 East 5th Street, Chester, PA USA 19013-4511 TEL (610) 876-3400 FAX (610) 874-0190 www.loudspeakers.net

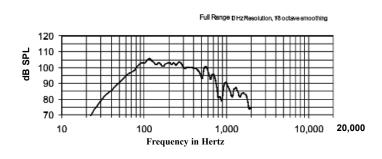


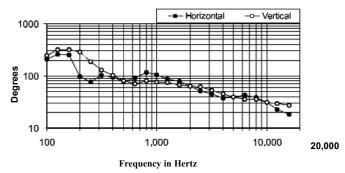
T-CLASS / TFR34A

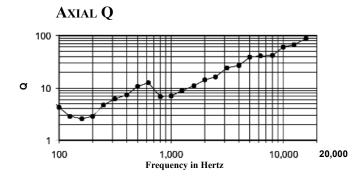
THREE-WAY TRIAMPLIFIED 30° X 40° HIGH OUTPUT HORN SYSTEM

FULL-RANGE FREQUENCY RESPONSE (PROCESSED)

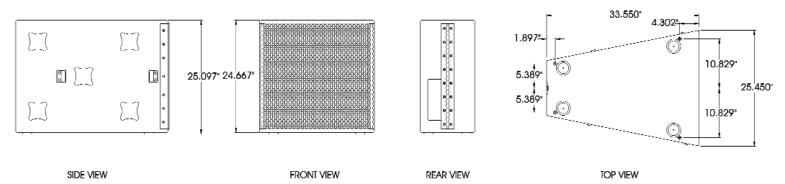
BEAM WIDTH







DIMENSIONS



ARCHITECTS AND ENGINEERS SPECIFICATIONS

The TFR34A 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 of 630 Hz and 4 kHz. There shall be two NL8MP (tri-amp) connectors. The system shall meet the following performance criteria: Overall amplitude response of 70Hz to 17 kHz (+/-2dB) with LF section amplitude response 80-630Hz, mid-range section amplitude response 630 Hz-4000 Hz, and HF section amplitude response 4000 Hz-12.5 kHz. (+/-2dB) Tri-amp mode power handling shall achieve, 600W RMS and 1500W PGM for LF, 75W RMS and 200W PGM for midrange 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 guage perforated steel grille. The enclosure is finished with black Tuf-CoatTM. 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 112 dB SPL/1W @ 8 ohms. The HF sensitivity is 117 dB/1W @ 8 ohms. Nominal dispersion shall be 30°H x 40°V from 1.6 kHz to 16 kHz (verticle 0° up and 40° down). The loudspeaker shall be 25.1"(637.5mm) H, 25.45"(646.4mm) W(front), 12.1"(307.3mm) W(rear) x 33.5"(852.2mm) D and weigh 155lbs (70.3kg). The three-way, full-range loudspeaker system shall be the Community Model TFR64A.

Page 2 of 2

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