**T-CLASS / TFR31**

**THREE-WAY TRIAMPLIFIED 30° X 10° HIGH OUTPUT HORN SYSTEM**

### SPECIFICATIONS (See notes 1 and 2)

**Loudspeaker Type:** 3-way, horn loaded  
**Operating Range:** 60 Hz - 18 kHz  
**Max Input (Passive):** 600W continuous, 1500W program  
**Recommended Power Amp:** 170W to 240W @ 8 Ohms  
**Recommended MF Power Amp:** 600W continuous, 1500W program  
**Recommended Power Amp:** 600W continuous, 1500W program  
**Recommended HF Power Amp:** 670W to 960W @ 8 Ohms  
**Sensitivities 1W/1m:** 670W to 960W @ 8 Ohms  
**Nominal Impedances (Triamp):** LF: 4 Ohms, MF: 8 Ohms, HF: 4 Ohms

### Optional Accessories:

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

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**Applications:**

- 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  
- Symmetrical Coverage Pattern  
- High-Fidelity, Full-Range Reproduction of Music And Speech

**Features:**

- Drivers: LF (2) 12" cast frame  
- MF (2) M200, Ferrofluid cooled  
- HF (2) UC2, Ferrofluid cooled  

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**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:** 161.5 lb. / 73.2 kg
- **Shipping Weight:** 167 lb. / 76 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.
The TFR31 loudspeaker system shall be a horn-loaded, three-way, full-range bass reflex trapezoidal design with two 12” woofers, plus a 2” exit mid-range driver with a non-metallic diaphragm, and (2) 2” exit HF drivers with a non-metallic diaphragm mounted to an integrated, interchangeable MF/HF fiberglass waveguide module. Crossover frequencies shall be of 630 Hz and 3.5 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 (+/-3dB) 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 mid-range and 2100W RMS and 800W 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 Tuf-Coat™. 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 113 dB SPL/1W @ 8 ohms. Nominal dispersion shall be 30°H x 10°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”(307.3mm) W(rear) x 33.5”(852.2mm) D and weigh 161.5lbs (73.2kg). The three-way, full-range loudspeaker system shall be the Community Model TFR31.