



T-122

Flyable Two-Way Loudspeaker System



General

The T-122 is a two-way passive trapezoid shaped loudspeaker system designed for flying operation. The low frequency spectrum is handled by a cast frame 12" radiator, while a 1" throat titanium diaphragm driver coupled to a 90° x 40° defined coverage horn extends high frequency performance. To achieve low crossover insertion loss and high reliability, 14-gauge wire and mylar capacitors are used throughout with all components mechanically secured to a glass epoxy PC board. To ensure enclosure stability, 3/4" void-free birch plywood is used with all interconnecting surfaces extensively braced and glued.

The T-122 is easily flyable via six fly points. Two points on the top, two points on the bottom, and two points on the back facilitate horn up or horn down rigging. The T-122 has two 1/4" 28-thread inserts installed at each of the six points for use with the optional flying hardware. Top and bottom fly points are connected by two load-bearing 1/4" threaded rods. A flying hardware kit, model FHK is available and includes one flying hardware plate model FHP, one flying hardware tie-down model FHT, and two 1/4" 28-thread machine screws. The model FHP and FHT as well as the screws also are available separately. The tie-down simply slides and locks into the plate and is held in place by a spring load. The tie-down has a round ring with an inside dimension of 1.12" which can be used with most standard rigging hardware. You must use at least two FHK to safely suspend the T-122. For permanent installations, 1/4" 28-thread drop-forged I-bolts (FIB) are available from the factory and may be used in place of the FHKs.

The T-122 uses a 16-gauge perforated grill for speaker component protection. Standard finish is black textured paint, with white, grey, or unpainted as an option. Like all other OAP loudspeaker systems, the T-122 comes with a five-year warranty.

Applications

The T-122 should be used when a compact, high output full-range is needed for portable or installed sound. It can be a stand-alone system operated passively with frequency response down to 65 Hz. The T-122 can also be used as a "mid-hi" section of an extended range system when used with low-frequency speakers such as the OAP Audio LF-118 or TR-218. It can be stand mounted by using a 1.5" diameter tube speaker stand, or suspended horn up or horn down using the optional rigging hardware. The T-122 can also be ordered without the handle and socket.

T 122xover and optional Connector Panels

The T-122 is supplied with the T-122XOVER input panel. This panel has parallel 1/4" jacks for input connectors. For all OAP 1/4"

operations, the tip is positive and the sleeve is negative. For multi-pin cable use, the optional IP-4NS Neutrik Speakon connector panel is available. For the IP-4NS Neutrik Speakon, input panel: pin 1 - is LF negative; pin 1 + is LF positive; pin 2- is HF negative; pin 2+ is HF positive. Terminal strip input panels are also available.

To change input panels, remove the phillips head screws. Lift the panel from the enclosure and disconnect the input panels by pulling apart the connector. To install the new panel, reverse the above procedure. Insure that there is a color continuity on both sides of the connector.

Weatherizing Option

For outdoor use, the T-122 can be enhanced with OAP's weatherizing process. Weatherizing includes polyurethane coating on cabinet exterior, water repellent treatment of speaker cone, added moisture bug barrier to metal grill, hand fitted acrylic cover to input plate, and stainless steel fasteners used at strategic points. Call factory for further information.

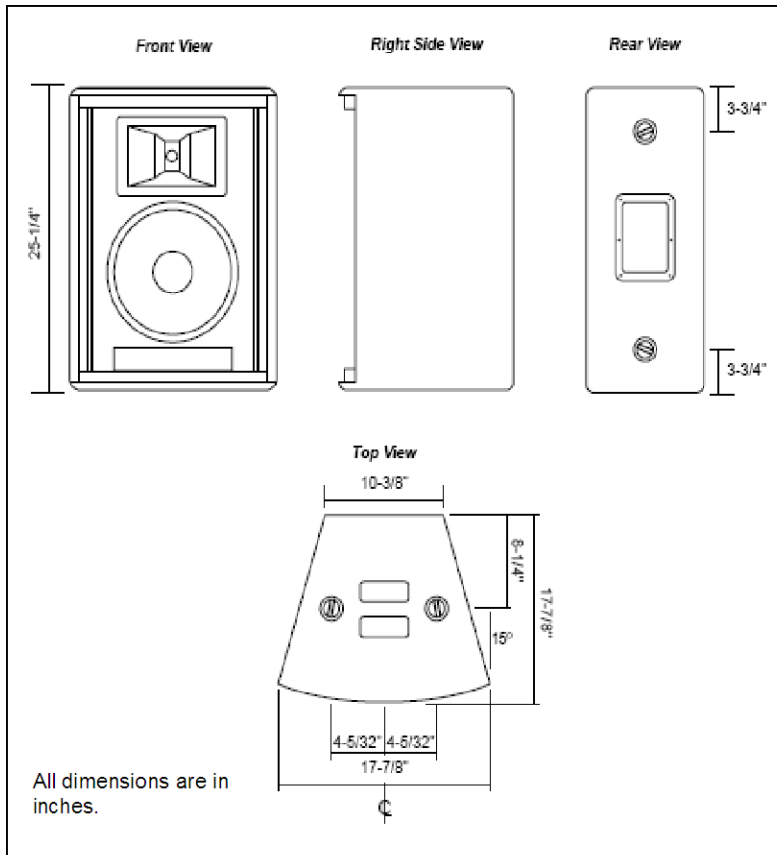
Flying Operation

WARNING!!! Rigging and flying of the T-122 should be done by persons familiar with standard rigging practices. Overhead rigging requires extensive experience including (but not limited to) calculating working load limits, hardware installation and periodic safety inspection of all hardware and cabinetry. If you lack these qualifications, do not attempt the installation yourself, but instead use a professional structure rigger. OAP Audio recommends that any installation of this product be done by a qualified professional. OAP Audio will accept no liability for any damage or injury caused as a direct or indirect result of improper handling, installation or use of this product.

Warranty

OAP Audio Engineered Sound Series loudspeakers are guaranteed against failure due to workmanship and materials for a period of five (5) years from date of purchase and is limited to original purchaser. If such failure does occur, unit will be replaced or repaired (at the discretion of OAP Audio) without charge for labor or materials. Unit must be delivered to OAP Audio or one of it's authorized service facilities prepaid. In warranty items will be returned prepaid. Items not covered by warranty includes finish or appearance items, burned coils, or failure due to operation under other than specified conditions. This warranty also does not include any incidental or consequential damages. Repair by other than OAP Audio or an authorized service facility will void this guarantee.

Rev. C (05/07)



Architectural Specifications

The loudspeaker shall be of the two-way type and trapezoid shape (15° taper). The loudspeaker shall incorporate a 12" low frequency driver, and a 1" compression driver mounted on a defined coverage horn. The system shall have a frequency range of 65 Hz to 16,000 Hz, a pressure sensitivity of 104 dB at 1 watt power capacity giving a maximum output capability of 123 dB measured at 1 meter and averaged between 125 Hz and 8,000 Hz. The cabinet shall be constructed of void-free 3/4" birch plywood and stiffened internally. All exposed corners shall be rounded for damage resistance. Six fly-points shall be fitted with 1/4" 28-thread inserts to be used with optional aircraft type rigging fittings. The top and bottom of the cabinet shall be 1.5" thick. The top and bottom shall be reinforced with steel plates and connected together with 1/4" threaded rod to facilitate the rigging of one enclosure to another. The system shall be the OAP T-122.

Specifications

Low Frequency Driver	12" with a cast frame, 2.5" edgewound V.C.
High Frequency Driver	1" throat driver with 1.75" titanium diaphragm
High Frequency Horn	1" throat defined coverage horn, 90°x40° dispersion
Impedance	8 ohms nominal
Frequency Response	65Hz to 16 KHz
Sensitivity	104db 1 watt @ 1 meter averaged between 125 Hz and 8,000 Hz. 123db maximum @ 1 meter averaged between 125 Hz and 8,000 Hz.
Power Handling	300 watts program power
Dimensions	18" W x 25.375" H x 16" D
Weight	70 lbs.
Trapezoid Taper	Front to back, 15° each side
Flypoints	Six: 2 on top, 2 on bottom and 2 on back
Input Connector	Parallel 1/4" jacks or barrier strip, NL4 optional
Color	Black texture is standard with gray, white and unfinished optional
Grill	Black epoxy perforated 16 gauge carbon steel, white grill available as option

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