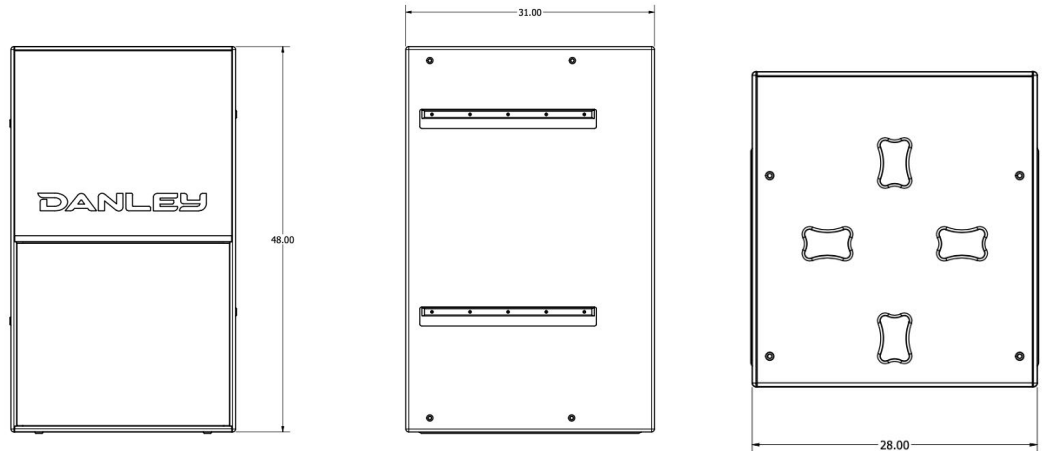


TH121

21" Neodymium Tapped Horn Subwoofer

Preliminary



The TH121 is a high-output subwoofer utilizing a 21-inch neodymium driver with a 6.5-inch dual-layer voice coil for exceptional thermal and mechanical power handling. Its performance is driven by our patented Tapped Horn technology, which is unlike conventional horns or bass reflex designs, the Tapped Horn uses a driver placed partway down a folded horn path. The front of the driver radiates directly into the horn's throat while the rear of the driver is vented through a tap into the horn, closer to the mouth. This configuration achieves acoustic phase alignment at the horn's exit, effectively summing energy from both sides of the driver, this in-phase alignment effectively doubles the radiating surface area of the driver leading to greater efficiency and output than would be possible with a traditional design of the same size. The result is increased output, reduced distortion, and minimized cone excursion under high power, improving linearity and reliability.

The enclosure is constructed from 13-ply Baltic birch with a PolyUrea coating for impact and environmental resistance. Interlocking skids provide secure stacking with compatible models such as the TH118XL, SH96 and SH96HO. Touring and install versions include multiple M10 rigging points, while the Extreme Weather variant replaces plywood with fiberglass-reinforced polyurethane panels for maximum durability in harsh conditions.

For optimal system integration, use Danley DNA amplifiers or processors, which offer advanced DSP for precise tuning, protection, and performance optimization.

SPECIFICATIONS Preliminary TH121

PERFORMANCE	
Operating Mode	Passive single channel - 4 Ohm
Operating Range	28 Hz - 96 Hz +/- 3 dB / 22 Hz - 100 Hz -10 dB
Coverage Pattern	Omni
Transducers	1 x 21" Neodymium subwoofer
Power Handling	3,000 W Cont. / 6,000 W Program / 12,000 W Peak
Sensitivity	104 dB / Preliminary
Output	Continuous 138 dB / Program 141 dB / Peak 145 dB

PHYSICAL	TH121	
Connections	2x Neutrik NL4 Speakon Pin 1+/- Low Frequency	

Mounting / Suspension Points	M10 rigging points		
Dimensions / Weight	W: 28 x H: 48 x D: 31in / 711.2 x 1219.2 x 787.4 mm / 225 lbs / 102 kg		
Finish	Black polyurea coated enclosure w/ matte black grille White polyurea coated enclosure w/ matte white grille Grey UV resistant coated enclosure w/ matte grey grille		
Enclosure Material	18mm Baltic Birch, polyurea coated 18mm high-density polyurethane, polyurea coated - grey		
Options	TH121-T	TH121-I	TH121-EW
Accessories	TBD		

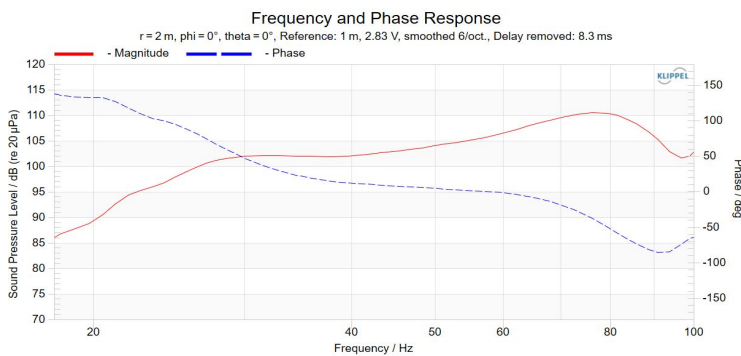
To view product details or download additional specs or presets, please visit <https://www.danleysoundlabs.com>

SPECIFICATIONS Preliminary TH121

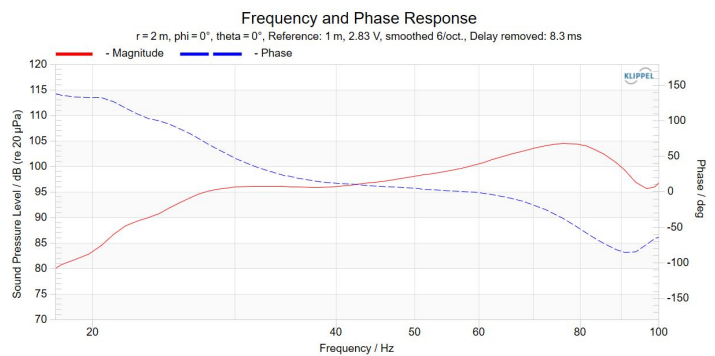
ARCHITECT/ENGINEERING

The subwoofer shall utilize the Tapped Horn enclosure. The coverage pattern shall be omnidirectional. The subwoofer shall have an operating range of 22 Hz - 100 Hz (-10 dB). Sensitivity of 104 dB (measured at 2.83V referenced to 1M by 28.3V @ 10M distance). Output of 138 dB SPL program / 145 dB SPL peak. Power handling shall be 3,000W continuous and 12,000W peak. The enclosure shall be constructed of 13 ply, 18mm Baltic birch, polyurea coated. The subwoofer shall be the Danley Sound Labs TH121.

Sensitivity - half space



Sensitivity - free field



Magnitude

