



Waterproof Audio Transducers

Audio Transducer Installation Instructions



Introduction: Audio Transducers emit/radiate audio instead of projecting, as with typical speakers. There are 3 factors to consider that will dictate transducer performance: Material Type, Thickness & Density. PQN Audio Transducers are used in many products, such as hot tubs, float tanks, float pods, security & medical devices.

Mounting Plate Positioning & Installation Recommendations:

- Spa Installs:** Position Transducers ~ 2-4" above waterline on underneath of shell surface
Position one (1) transducer on each four sides, or
Position two (2) as a pair on opposite sides. For optimum performance space ~ 18-24" apart, or
Position two (2) transducer w/ (1) on opposite sides and two (2) w/ (1) on opposite topsides
Adhere mounting plates with epoxy or embed into fiberglass.
- Float Installs:** Position ~1-2" above to ~1-2" below waterline
Position two (2) transducers at preferred end of tank, or
Position one (1) transducer on opposite sidewalls. For ideal performance place at shoulder/knee
Adhere mounting plate with epoxy or embed int fiberglass
- Bath Installs:** Position one (1) transducer on opposite sidewalls, or
Position two (2) transducers on preferred sidewall ~ 18-24" apart
Position the transducers 1-4" down from topside
Adhere mounting plate with epoxy or embed into fiberglass
- Security Installs:** Secure to metal airducts and/or walls as needed
Secure glass ~2-6" from window framing
- Sauna Installs:** Secure mounting plate with screws, however, adding epoxy will assist with sound performance
Position transducers either to underside of bench or to wall surface
Adhere within wall construction

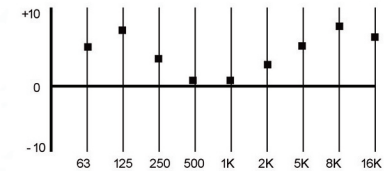
Recommendation: It is always best to test & evaluate various positioning prior to final installations

*Note: Allow mounting plate epoxy to properly cure/dry prior to attaching transducer
Never use screws to affix mounting plates to tanks, spas or bath surface walls
Use a 2-part epoxy suitable for mounting plate & surface material
Assure epoxy & surface are capable of suspending transducer weight.*

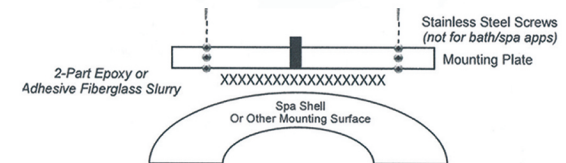
Note: The sound performance of these transducers should not be evaluated open handed or unmounted. The performance will not be evident and will sound inferior until assembled onto mounting plate and affixed/secured onto chosen project surface.

Customizing Audio Performance

- 1-To optimize yor listening pleasure search your device's audio menu to adjust tonal quality, or for device Equalizer, if available.
 - 2-Typical EQ setting should look similar to curve below, or to your preference.
- Note:** Excessive low freq distortion may cause transducer damage.



Adjust for speaker clarity and tonal preference



WARNING: DO NOT USE Thread Locking Liquids on Mounting Plate Studs

Wiring: PQN Transducers can be wired either (1) per channel, or, for some applications (2) in parallel per channel.



Warranty Policy

PQN Audio products are warranted to be free of manufacturing defects for a period of one (1) year. Warranty is subject to proper installation & application. Warranty does not cover exposure to excessive chemical usage or operational abuse. Return defective product prepaid to point of purchase for replacement or refund as determined by PQN. Warranty is not transferable. Proof of Purchase must be included.

PQN is not responsible for speaker failure caused by defects/misuse/mfg issues of other amp/subwoofer products.



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For expert product & technical support contact PQN Audio directly.