INFRA-QSOURCES Qohm
Light weight high power omni-directional sound source

Features:
The extreme low weight of 3.5 kg and small dimensions allow highly efficient measurements, saving time in transportation and test-set-up. This set prevents heavy lifting work and allows flexibility in positioning during tests, because also the tripod, power amplifier, and soft-bag are light weight.

Key was the development of an extremely powerful small 4 inch speaker specifically for this application. This small high tech speaker allows low frequencies from 50 Hz and a sound power level of 122 dB Lw, that is normally only possible with larger/heavier 5 or 6 inch speakers.

Another advantage of the small 4 inch speakers is the improved omni-directionality that exceeds the ISO 3382, ISO 140 and other standards requirements by two octaves.

Reliability and robustness are built in with rubber impact rings, particle protection and thermal protection.

Applications:
- On-site airborne sound isolation
- Reverberation and absorption
- Hall/Room acoustics
- Small up to very large buildings
- Road-railway infrastructure
- Reference sound power testing
- Barrier performance
- Building element performance
- General airborne excitation

Specifications:
- Frequency range: 47-16000 Hz
- Omni-directionality: +1 dB from 50-1600 Hz
  +3 dB from 1600-2500 Hz
- Sound power level: 122 dB SPL, 2 minutes**
  116 dB SPL, 15 minutes**
- Output level stability: better than 0.5 dB,
  10 minutes at 116 dB**
  better than 0.5 dB,
  1.5 minutes at 122 dB**
- Mounting thread: UNC 3/8-16
- Dimension, weight: 26 cm diameter, 3.5 Kg.
- Power requirement: 800 Watt RMS to 4 Ohm***

*These specifications may be adapted if necessary to improve the quality of the product.
**When driven with Qam generated low crest-factor pink noise at 22 Celsius ambient temperature or lower.
***For maximum performance a dedicated power amplifier type Qam is available from Infra-Qsources.
Source directional characteristics:

Third octave and octave spectrum:

Related products:
- Qam: light weight measurement amplifier
- Qref: reference sound power source
- Qohm72: extreme level omnidirectional source
- Qohl: low freq. volume velocity sound source

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