

INFRA-QSOURCES Qm

High efficiency omni-directional source



Dodecahedron sound source for building acoustics and other airborne excitation measurements. The output spectrum and omni-directionality easily satisfies the ISO 3382, ISO 140, ISO 16283-1 requirements.

The design and drivers were optimized for high noise levels with high efficiency, allowing use with a low power amplifier. The intended frequency range for high noise levels is from the 50 Hz third octave band till the 16 kHz third octave band.

The structure is very solid with a single piece fibre reinforced housing and a central tube for stable support and lifting and positioning.

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

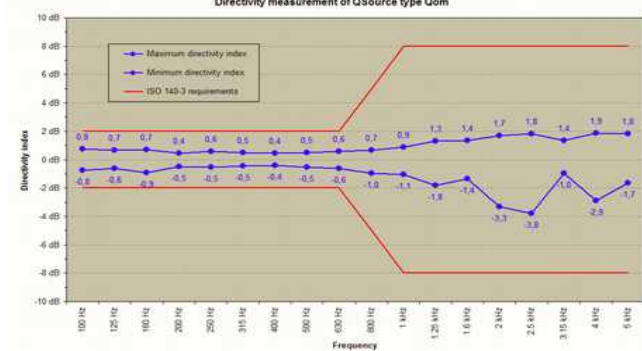
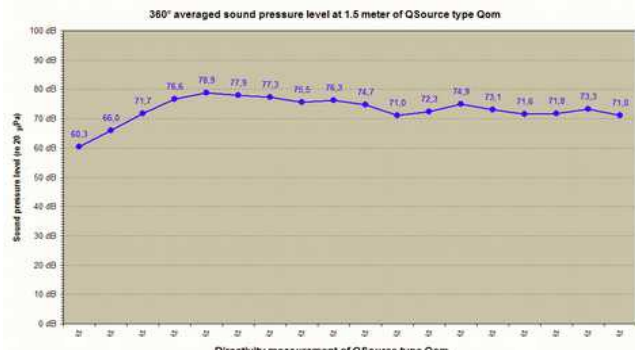
Specifications:

Frequency range:	50-16000 Hz
Omni-directionality:	+1 dB from 50-1600 Hz +4 dB from 2000-5000 Hz
Sound power level:	120 dB SPL, over 1 minute** 114 dB SPL, 15 minutes**
Output level stability:	better than 0.5 dB, 10 minutes at 114 dB**
Mounting tube:	25 mm in-, 30 mm outside
Dimension, weight:	38 cm diameter, 15 Kg
Power requirement:	120 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.



Related products:

- | | |
|--------|--------------------------------------|
| Qam | light weight measurement amplifier |
| Qohm | extreme light weight omnidir. source |
| Qohm72 | extreme omnidirectional source |
| Qohl | low freq. volume velocity source |
| Qref | sound power reference source |

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