



HVAC fundamentals

Octave bands

The most commonly measured frequencies are octave band frequencies between 100 -10,000 Hz. The amount and frequency distribution of the total noise is determined by measuring it with an octave band analyser; A set of contiguous filters covering essentially the fully frequency range of human hearing.

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An octave represents a frequency interval of a factor of two.

Octave	1	2	3	4	5	6	7	8
Frequency (Hz)	63	125	250	500	1K	2K	4K	8K

For finer resolution of data, narrower band filters are used and as a result, each octave band can be further divided, and the 1/3 octave is regularly used.

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