

Kundt's tubes

Application area

- Facility
- Mechanical Property measurement
- Physical Property measurement
- Acoustical Property measurement

Parameter

What can be measured with this method

Sound absorption coefficient, acoustic impedance

Principle/Method:

Kundt's tubes (impedance tubes)

Standard/Reference:

Literature documenting this method

Determination of sound absorption coefficient and impedance in impedance tubes - Part 1: Method using standing wave ratio (ISO 10534-1)

Manufacturer:

B&K

Technical specifications:

(Dimensions of rooms, size of the test-rig, working frequency range...)

- A) Cylindrical tube of 1 m length, diameter of 0.1 m
- B) Cylindrical tube of 0.3 m length, diameter of 0.03 m

Description:

Due to its dimensions the tubes can be used in a frequency range of approximately 100 Hz to 1500 Hz for the larger tube respectively 1500 Hz to 6000 Hz for the smaller tube.

