

## Large 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:

Large Kundt's tubes (impedance tubes)

### Standard/Reference:

Literature documenting this method

Determination of sound absorption coefficient and impedance in impedance tubes - Part 2: Transfer-function method (ISO 10534-2)

### Manufacturer:

### Technical specifications:

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

Two tubes each of 5 m length, square cross section of 0.25 m x 0.25 m of the smaller tube and square cross section of 0.5 m x 0.5 m of the larger tube

### Description:

The tubes are built perpendicular into the institutes testing facility building. The probe to be tested is placed at the bottom of either tube. Due to its dimensions the tubes can be used in a frequency range of approximately 20 Hz to 300 Hz for the larger tube respectively 20 Hz to 600 Hz for the smaller tube.

