

**Experiment(s):**

1. Verification of Helmholtz law
2. Determination of volume of the resonator

(For more details, procedure & manual visit: [www.kamaljeeth.net](http://www.kamaljeeth.net))

Reference : *Lab Experiments Journal vol-12, No.1, Page-55*

**Experiment setup consists:**

- a) Helmholtz resonator on stand
- b) Digital tuning fork
- c) Relative sound intensity meter and stand

**Specifications:****a) Helmholtz resonator on stand**

Speaker and microphone arrangement directed into container

Frequency response: 20 Hz to 16 KHz

Volume: 250 ml

**b) Digital tuning fork**

Alternate to manual tuning fork,

Frequency: Variable

Amplitude: Fixed

Output: fed to speaker, up to 85 dB

Rated Input: 220 V/50 Hz

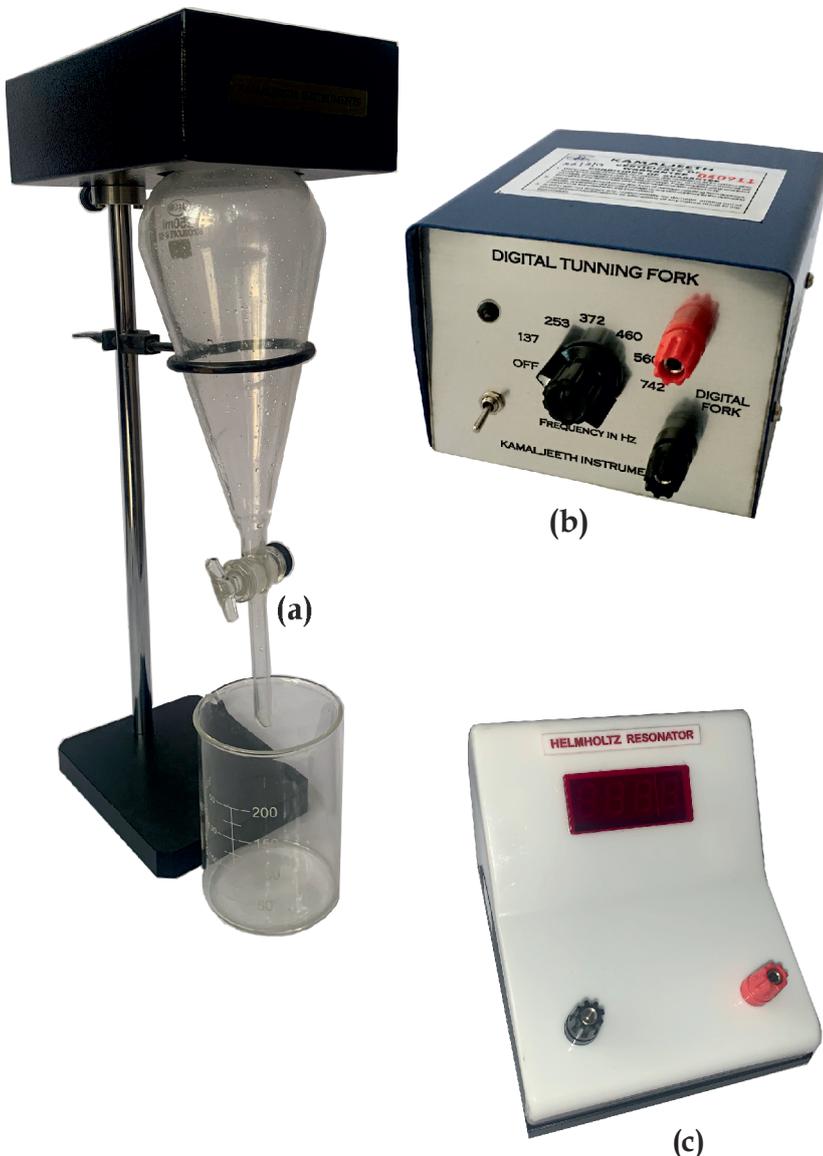
or 110 V/60 Hz

Power consumption: <30 W

**c) Relative sound intensity meter**

Input: From the microphone  
Built-in amplifier for conditioning microphone current

Output: Display of relative sound intensity



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