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**Product Name:** 

Free and Forced Vibration Apparatus

**Product Code:** 

TM 155



## **Description:**

Free and Forced Vibration Apparatus

- [1] Basics of mechanical vibration, natural damped and forced vibrations
- [2] Bar-type oscillator
- [3] Three helical springs
- [4] Unbalance exciter with DC motor, 0.77kg
- [5] Displacement exciter with DC motor
- [6] Electronic control unit with digital display, exciter frequency adjustable
- [7] Oil-filled damper
- [8] Electrically driven drum recorder
- [9] Amplitude meter with electric contact for triggering equipment
- [10] Storage system to house the components

**Technical Data** 

Bar-type oscillator: I x w x h: 700x25x12mm, 1.6kg

Helical springs

- 0.75N/mm
- 1.5N/mm
- 3.0N/mm

Exciter frequency: 0...50Hz, electronically controlled Unbalance of the unbalance exciter: 0...1000mmg

Stroke of the displacement exciter: 20mm Damper constant: 5...15Ns/m, oil-filled

Mechanical chart recorder

- feed: 20mm/s paper width: 100mm Dimensions and Weight I x w x h: 1000x420x900mm

Frame opening w x h: 870x650mm

Weight: approx. 52kg

Connections

230V, 50/60Hz, 1 phase or 120V, 60Hz/CSA, 1 phase (exciter control unit)

Scope of Delivery

1 frame

1 bar-type oscillator

3 helical springs

1 unbalance exciter

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- 1 displacement exciter
- 1 exciter control unit
- 1 damper
- 1 amplitude meter
- 1 drum recorder
- 1 storage system
- 1 manual



## **Astra Scientific**

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