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# KINETIC THEORY MODEL

CAT NO. PH0203



## Instruction Manual

# KINETIC THEORY MODEL



## Introduction:

This model provides in analogue form a visual representation of molecular movement in gases.

## Description:

A piston, in a wide vertical perspex tube, is vibrated by a low-voltage electric motor contained in a box supporting the tube. Tiny metal spheres, simulating gas molecules, are propelled upwards in the tube by the piston's vibrations. The movements of the spheres are seen to be random both in direction and extent.

The motor is provided with a speed control. Higher speeds give more extensive movements of the spheres.

## Additional requirements:

The electric motor requires a 6 V d.c. power supply capable of providing a current of 2.5 A.

For demonstrations to other than small groups, illumination from the side and a black background are recommended.

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