Vacuum Bell Jar

Vacuum bell jar made of glass with grip knob and polished flange to be set on top of the vacuum experiment plate (P-1003166).

Inner diameter: 190 mm
Total height: 220 mm

P-1003167

P-1003167

P-1003166

Vacuum Experiment Plate

Experiment plate for the assembly of a vacuum chamber in conjunction with the vacuum bell jar (P-1003167) for experiments in the coarse and fine vacuum range. Metal plate with sealing ring on a tripod, hose connection of the pump-side and ventilation cock. Includes two-pole current feed via 4-mm safety sockets and cable of approximately 1 m length with 4 mm safety plugs, plus a central bore with M12 thread for attaching experimental equipment.

Diameter: 250 mm
Height: 90 mm
Electrical limit specs.: max. 48 V, max. 12 A
Vacuum connection: 2 hose nozzles 12 mm and 8 mm diam.

P-1003166

Additionally required:
P-1003167 Vacuum Bell Jar
P-1003317 Rotary-Vane Vacuum Pump, Two-Stage
P-1002619 Vacuum Hose 8 mm

Vacuum Recipient

Inexpensive vacuum recipient made of transparent acrylic for experiments in coarse and fine vacuums. Comprises a base and vacuum cylinder with venting valve, manometer, inlet tap, entrance for contacts and rubber ring.

Volume: 9 l approx.
Leakage rate: < 0.5 mbars/h
Base plate: 320x320x10 mm approx.
Vacuum cylinder: 200 mm x 240 mm (diam.) approx.
Thickness of walls: 5 mm
Weight: 2.9 kg approx.

P-1009943

Additionally required:
P-1012831 Vacuum Tubing, 4 mm
P-1003317 Rotary-Vane Vacuum Pump, Two-Stage

P-1009943

Electric Doorbell

Bell for demonstrating electro-magnetic operation of apparatus and verifying that sound waves do not propagate in a fine vacuum (< 1 hPa). Open acrylic housing with 4-mm safety sockets.

Power supply: 6 V AC
Dimensions: 100x95x50 mm^3

P-1003170

Additionally required:
Vacuum Chamber
Vacuum Pump
P-1003316 Transformer with Rectifier 3/ 6/ 9/ 12 V, 3 A (230 V, 50/60 Hz)
or
P-1003315 Transformer with Rectifier 3/ 6/ 9/ 12 V, 3 A (115 V, 50/60 Hz)

P-1003170

P-1003169

Baroscope

Beam balance on base with suspended polystyrene ball and adjustable counterweight for demonstrating buoyancy on a body due to atmospheric pressure. At a state of equilibrium a Baroscope is placed in a vacuum bell jar under atmospheric pressure. The air in the bell jar is then evacuated, the Styrofoam sphere falls on account of the reduction in lift.

Styrofoam sphere: 50 mm diam.
Base: 120x90 mm^2
Height: 125 mm

P-1003169

Additionally required:
Vacuum Chamber
Vacuum Pump

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