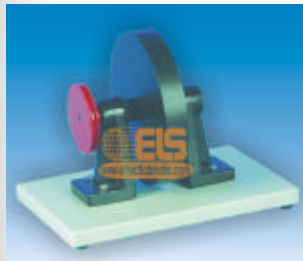




Friction calorimeter unit (ELP.105.192)

Comprising a brass cylinder, internal size 27 x 16 mm. diameter, with an integral V - pulley in the base of the cylinder and a 6 mm. dia. steel shaft which fits in to a bearing block. A vertical pillar carries the cork lined frictin arms and thermometer support. Supplied without thermometer. Dimensions of laminated wooden base 155 x 105 mm.



Fly wheel unit (ELP.105.193)

For use with large motor generator and a lamp unit to demonstrate the conversion of electrical energy to kinetic energy and then back on. Comprising an iron fly wheel 115 mm. dia., mass 1.2 kg., mounted in cast brackets with nylon bearings. The shaft has an aluminum V - pulley 44 mm. dia, for driving the spring belt. Dimensions of laminated wooden base 155 x 105 mm.



Head of water unit (ELP.105.194)

For use with turbine pump unit to provide an open or close system in demonstrating the conversion of electrical energy to kinetic energy and then back on. Comprises of 2 basins 80 mm. dia. and shaped glass tubes. the upper platform has a 38 mm. dia. hole to allow use as simple recirculation system with a single reservoir. Dimensions of laminated wooden base 155 x 105 mm.



Line shaft unit (ELP.105.195)

For showing the conversion from electrical energy via mechanical to potential energy by winding up a weigh on cord. Comprises of a 6 mm. dia steel shaft mounted in brackets with nylon bearings. One end carries and aluminum V - pulley 56 mm. dia. and the other overhanging end is fitted with a chord anchoring collar. Dimensions of laminated wooden base 155 x 105 mm.



Spring unit (ELP.105.196)

For showing potential energy in a wound up spring and its conversion to electrical energy by driving a dynamo and lighting a lamp. Comprising a steel shaft carries a clock spring with a free wheel device & winding ratchet, also an aluminum V - pulley 56 mm. dia. One end of the shaft overhangs the base for use as a line shaft when winding up a weight. Dimensions of laminated wooden base 155 x 105 mm.



Hand Wheel driving unit (ELP.105.197)

The driving & output pulleys are both 75 mm. dia., & the intermediate pulley is 20 mm. dia giving a step up ratio of 3.75. Dimensions of laminated wooden base 155 x 105 mm.



Turbine pump unit (ELP.105.198)

For use as a water turbine to drive a generator producing electricity or for use as a pump driven by a motor and raising a head of water to produce potential energy. Comprising a rotor 40 mm. dia. has 8 bucket blades & is housed in a block turbine chamber 50 x 50 x 50 mm., with a clear perspex front. Two inlet tubules (for turbine and pump operating respectively) & one outlet tubule is provided, and the shaft carries a 15 mm. dia pulley. Dimensions of laminated wooden base 155 x 105 mm.



Large Motor / generator (ELP.105.199)

For use as a driving unit or dynamo. Comprises a 2 to 6 volts d.c. motor is provided with a 15 mm. dia. V - pulley. Dimensions of laminated wooden base 155 x 105 mm.



Lamp unit triple (ELP.105.200)

For use with motor generators to give an indication of their output when used as dynamos. Three lamp holders are connected in parallel. Supplied complete with 3 lamps 1.25 volt, 0.25 amp. M.E.S. Dimensions of laminated wooden base 155 x 105 mm.



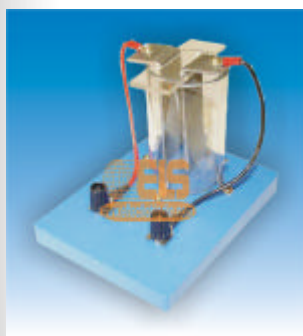
Small motor / generator (ELP.105.201)

For use with the large motor / generator in comparing power input and output by driving each in turn with the other and metering the voltages and currents. Uses a smaller 1.5 volt to 4.5 volt motor. Dimensions of laminated wooden base 155 x 105 mm.



Switch unit (ELP.105.202)

A double - pole double - throw knife switch for connecting the motor / generator. The socket terminals are labelled better, motor and lamp respectively. Dimensions of laminated wooden base 155 x 105 mm.



Storage battery unit (ELP.105.203)

To demonstrate principle of lead/acid 'accumulator'. Glass jar, 250 ml. with plastic screw cap, carrying 4 mm. socket terminals fitted to 2 lead plates. Dimensions of laminated wooden base 155 x 105 mm.



Solar Cell and motor (ELP.105.204)

High-power silicon cell converts light directly into electricity to operate motor. Exceptionally high output, 1/2 V with 40 to 50 milliamperes current output in bright sunlight. Solar cell approximately 6.4cm², with plastic diffusing lens and protective mounting. Motor with special anti-friction bearing revolves 20 to 400 times per minute in bright light with small propeller attached to shaft.