

COIL - large, 50T 2A max.

Cat: EM1915-020 max: 2A

DESCRIPTION:

General purpose large air coil, wound to provide a magnetic field in air for general studies in magnetism. It is made from polycarbonate for high temperature resistance and for physical strength. The terminals are 4mm spin-free socket head and the wiring is tamper-proof for student use.

Coil is complete with a strong plastic foot so that the coil can stand on a table with the coil standing edgewise vertically. Alternatively, the coil can be placed flat on a table to lie horizontally. If necessary, the foot can be removed by removing one small screw.

The direction of current flow through the coil is indicated on the coil providing the polarity of the power supply to the terminals is correct.

EM1915-020 large air coil



Physical size: 115mm ID, 163mm OD, 150mm average coil diam. Weight: 0.25 kg

Note: This coil is similar to a 'Helmholtz Coil' except the number of turns is 50T of heavy wire instead of 400T of fine wire.



Specifications:

Inside diameter of coil bobbin: 115mm.

Outside diameter of coil bobbin: 163mm.

Coil winding diameter: 150mm average

Number of turns: 50 turns.

Wire size: 0.9mm diameter

Approx. resistance: 0.7 ohms

Maximum current: 2 amps.

Therefore maximum voltage to apply is: 1.4V.AC or DC

Physical: Weight: 250 gram.

CAUTION: The coil resistance is VERY LOW so it is very easy to cause a very high current to pass through the coil. Take care.

Wire is wound on a plastic former and although the plastic is rated for high temperature, do not overheat. If current of 2 amp is exceeded or if the 2 amp current is permitted to flow for prolonged periods, the coil can become very hot. Always turn off power source or reduce current flow after measurements have been taken.

Designed and manufactured in Australia