

SA792379

Large Mid Twentieth Century Van Der Graaff Generator

Price

GBP 1,200

| USD \$1,621 | EUR 1,404

Item Reference: SA792379

Date of manufacture: 1940

Dimensions

Height = 75 cm (29.5")

Width = 27 cm (10.6")

Depth = 27 cm (10.6")

Description

For sale a large mid Twentieth Century Van Der Graaff Electrostatic Generating Machine. This huge demonstration example is comprised of a galvanised steel domed base with a hollow acrylic shaft which is topped with a galvanised collar and plate which holds a felt pad. At the base and the top plate, a spindle is provided to which a rubber belt is attached and a brush or comb is located at each end. Over the top plate is placed a metal dome which rests upon the felt pad. At the base, a small input point allows for the wand to be attached. The Van Der Graaff generator works by means of the rubber belt moving over two rollers comprised of differing materials each with a comb, the top one connected to the hood and the bottom one connected to earth. Owing to the different materials of the rollers, the movement of the belt causes the transfer of electrons from one to the other. The bottom roller will be negatively charged and the top positively charged. The excess positive charge is subsequently accumulated on the outer surface of the dome and builds up very large amounts of charge. If a wand was attached to the instrument at this point then the electrons drawn up from the gro...

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