

Sputter Coater GIT-8731

The GIT-8731 Sputter Coater is ideally suited to the user who demands quality results from an easy-to-use instrument. Designed for routine applications, the GIT-8731 Sputter Coater uses a basic magnetron sputter head with a simple-to-replace disc target (gold/palladium (Au/Pd) as standard). The head is hinged for easy operation and fitted with electrical safety interlocks. To prevent accidental damage the high voltage lead is shielded. The plasma current is variable by adjustment of the vacuum level using an argon leak valve with the plasma voltage pre-set. For maximum sputter coating efficiency the gas injector system ensures that argon gas enters the chamber close to the plasma discharge. Venting is to argon.



Fast cycle times

The 100mm/4" diameter Pyrex cylinder is mounted on an aluminum collar and sealed with O rings. The small vacuum chamber means pump-down times and cycle times are fast; it also allows a small economical rotary pump to be used. The specimen stage is height-adjustable over a wide range and can easily be removed to accommodate larger specimens. The system is controlled manually by a 180-second timer with 15-second resolution. Pressure and plasma current are monitored by analogue meters.

Quality coating

The GIT-8731 Sputter Coater will deposit a quality coating and has the advantage of simple operation, ensuring reliability and suitability for general use. The GIT-8731 Sputter Coater also comes complete with 1m x 12mm bore vacuum hose and fittings, and requires a rotary pump.

Specifications

Dimensions:

340mm W x 130mm D x 250mm H (unpacked) excluding chamber Supplied with: gold/palladium (Au/Pd) target, 1m length of 12mm bore flexible vacuum hose, 1 x KF25 hose adapter flange and fittings to fit a rotary pump, 1 x rotary pump plug, comprehensive operating instructions

Electrical: Ensure that a suitable mains electricity supply (110VAC - 20A or 240VAC - 13A, frequency 50/60Hz) is available. The units are supplied for either 230V or 110V operation at 50/60Hz. The power rating is 250VA excluding the rotary pump. The rotary pump outlet is rated at 230V at 10A or 110V at 16A

Rotary Pump

rotary pump with oil mist filter (230V 50/60Hz)

Choosing a target

Gold/Palladium (Au/Pd): Supplied as standard. Has the same properties (sputtering rate, secondary electron yield) as gold but the sputtered grain size is smaller.

Gold (Au): Gold sputter coating is still widely used in many laboratories

Palladium (Pd): Sometimes used instead of gold for x-ray microanalysis.

Platinum (Pt): The sputtered grain size is smaller than gold or gold/palladium. Platinum has a slower sputtering rate. However, Pt target will not interfere the analysis result if a sample have gold such as gold wire, gold solder, gold pin, gold plated

All targets are 57mm Ø x 0.1mm thick