



2.45 GHz 6 kW MICROWAVE GENERATOR FOR CVD LAB GROWN DIAMONDS



Our latest generation (G4) of Microwave generators has been specially designed with the **Lab Grow Diamonds Industry in mind**. The 100 % digital architecture makes it a **modern and highly reliable product**, with smart power control.

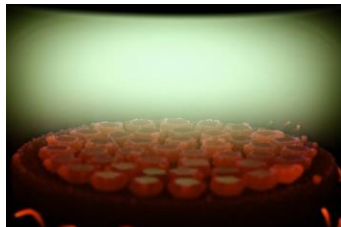
The solution is made of 2 modules for power supply and microwave generation. It can be adapted to most CVD reactors.

This equipment has been specially developed **to support weeks long running cycle** and deliver a narrow spectrum, necessary to offer the purest diamonds.

Multiple features, like de **Automatic Restart Function (ARF)**, and **Preventive Alarm Management (PAM)**, alarms without stopping the production) are implemented to allow you **to go to the end of your production batch**, even in case of micro power-cuts.

SAIREM's **optimized power supply** and magnetron performances helps you to reduce process interruption and costly yield losses.

Finally, SAIREM's comprehensive customer service helps you to **maximize your production yield**, through support and advices.





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KEY BENEFITS

COMPACT 2 MODULES DESIGN

- 6kW rackable Power Supply (19" 3U)
- 6kW 2450MHZ Microwave Head

BEST IN CLASS RELIABILITY

- **Automatic Restart Function (ARF)** in less than 5 ms, to avoid production stop or loss
- Improved reliability of reflected power measurement parts
- **Custom designed SAIREM magnetron** with high reliability and spectrum stability
- Expected Magnetron **lifespan above 15000 hours**, depending on operating conditions
- Arc detection included as standard in the microwave head
- **Preventive Alarm Management (PAM)** that allows the continuation of the production
- **100 % digital design** offers better protection from the electrical network interferences and distortions
- Software compatible with previous generation (no need to change control software)
- **Comprehensive customer service**

CONTROLS

- **7" color TFT touch screen** (option) for easy and efficient control and configuration. Full-screen power display function available to read power easily even far away from the generator.
- Full digital design to allow smart power control.



COMMUNICATION

- **Ethernet connection** for online diagnostic. USB port available to export alarm messages for easy diagnostic.
- Many fieldbus interfaces available
- **Can be ordered without digital display** to save cost. Remote control only, by fieldbus
- Full upgradable USB inlet



To get the complete data sheet :

- full specifications
- technical drawings

CONTACT US !