# MICROWAVE GENERATOR 6 kW AT 2450 MHz

SAIREM's latest generation (G4) of microwave generators has been specially designed for **customers' industrial applications and plasma generation.** The 100 % digital architecture makes it a **modern and highly reliable product**, with smart power control.

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



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

## **APPLICATIONS**

#### LABORATORY APPLICATIONS

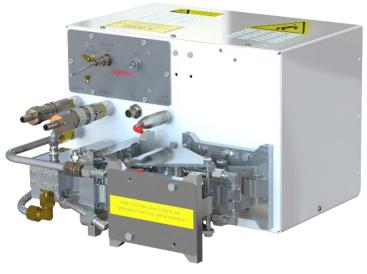
- Microwave-assisted liquid or solid chemistry
- Biochemistry
- Drying
- Sintering
- Melting

#### **PLASMA APPLICATIONS**

- CVD and CVD for diamonds
- Plasma generation with surface wave plasma source (Downstream, Surfaguide, Dual-stream ...)
- Nitriding
- Thin film deposition

#### INDUSTRIAL APPLICATIONS

- Microwave-assisted liquid or solid chemistry
- Drying
- Melting





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### **KEY BENEFITS**

#### **COMPACT 2 MODULES DESIGN**

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

#### **BEST IN CLASS RELIABILITY**

- Automatic Restart Function (ARF) in less than 5 ms, to avoid production stop or loss
- Environment monitoring: 35 parameters.
- Custom designed SAIREM magnetron, with high reliability and spectrum stability
- Expected Magnetron lifespan above 15000 hours, depending on operating conditions
- Arc detection included. One arc input is also available for customer's applicator/process.
- **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.

#### MEASURED REFLECTED SETPOINT 0.00kw 0.00kw 2.00 kW MAIN SETTINGS FUNCTION Normal Continuous Front Panel Disj. 0.00 kw 3 0 00 DOILOVV.

#### 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





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- full specifications
- technical drawings

# **CONTACT US !**



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