



KEY FEATURES I TECHNICAL DETAILS

- Stable filament control prolong the magnetron life
- Microcontroller based monitoring and controlling of all important magnetron operating parameters like high voltage, current and microwave
- Protective features to guard the magnetron and the generator against failures
- Sophisticated design allows the generator always working at the ideal operating point (high efficiency and longer magnetron lifespan)
- Advanced alarm indication, all alarms are displayed in a plain text
- The microwave generator is operated via a 4" Siemens touch panel
- In addition, it is possible to remotely control the microwave generator via a higher-level PLC control with Profinet
- The complete cooling water distribution and monitoring is integrated in the microwave generator. It is only necessary for the customer to install a fine filter.

SPECIFICATION

Electrical and Technical Data

Connection data high voltage power supply

Voltage	3x 400 VAC +/-5% / 50 Hz
Power consumption	145 kVA
Current consumption	209 A
Recommended back-up fuse	250 A (NH fuse)

Technical data magnetron head

Microwave power	100 kW
Frequency	915 MHz
Anode voltage	20 kV
Anode current	5,8 A
Heating voltage magnetron	12 VAC
Heating current	115 A

Cooling

Cooling water parameters magnetron head

Flow rate	min 90 l/min
Temperature range	20 - 25°C
Pressure	5 - 5,5 bar
Required cooling capacity	min 54 kW
Customer needs	fine filter in cooling water supply, ball valves in supply and return, pressure reducer

Cooling water quality

PH - value	7-9
Conductivity	<300 µS/cm
Hardness	<0,1 °dH
Alkalinity (°dH)	<1 °dH
Chloride Cl content	<20 mg/l
Sulphate So4	<50 mg/l
Ammonium NH4	<1 mg/l
Iron Fe	<0.2 mg/l
Manganese	<0.1 mg/l
Organic germs	<1000 CFU/ml

MICROWAVE GENERATOR
FM - 100kW / 915MHz

