



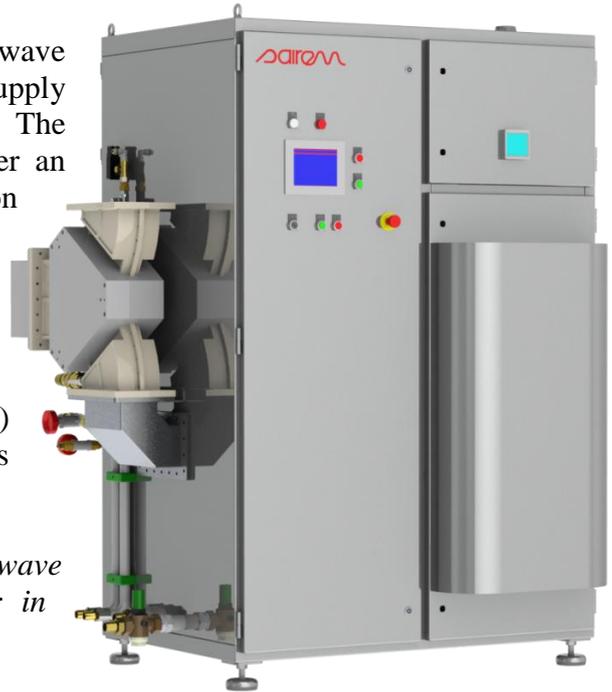
100 kW, 915 MHz MICROWAVE GENERATOR

Ref: GLP1000KSM56T400ME2IRG3

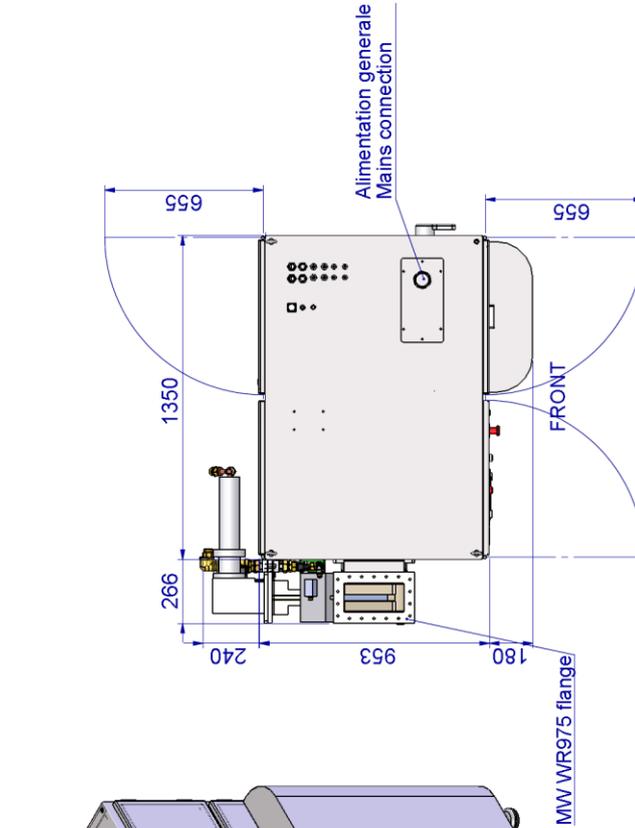
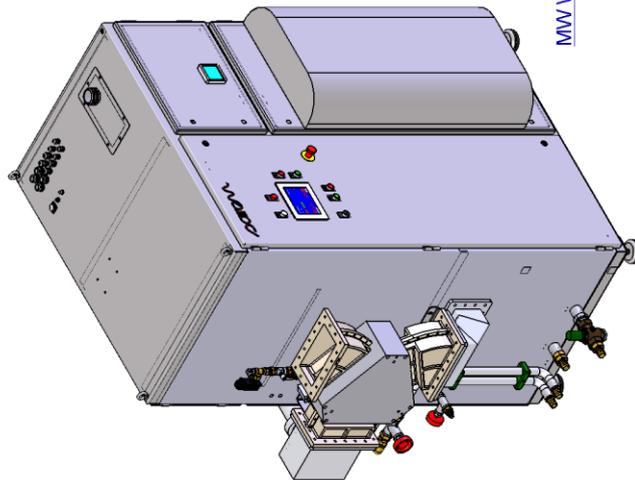
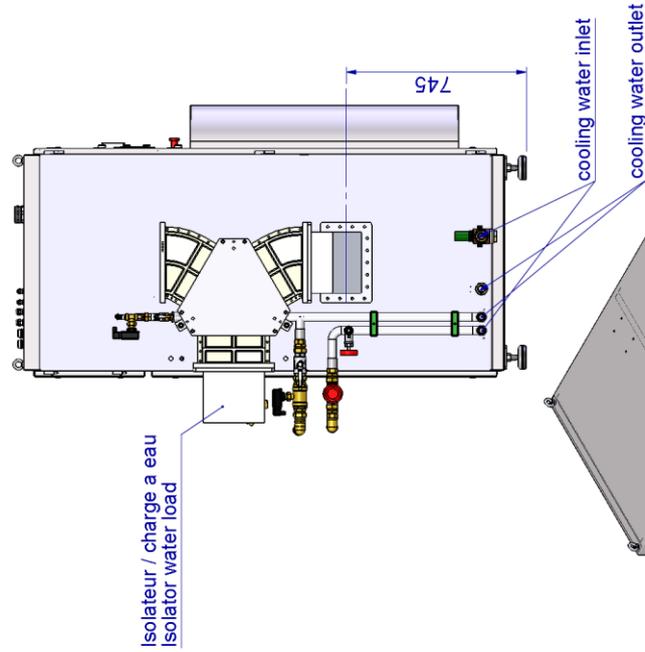
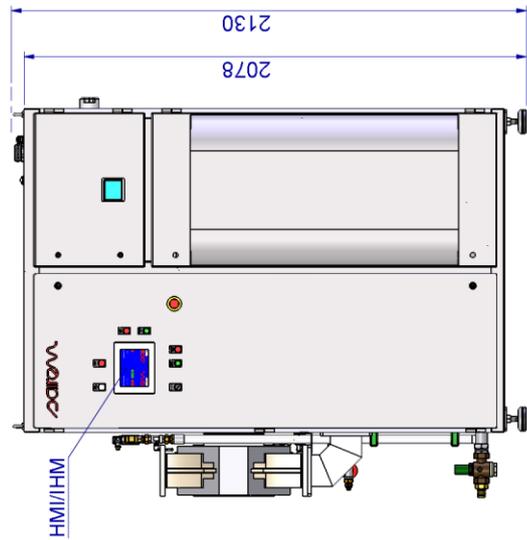
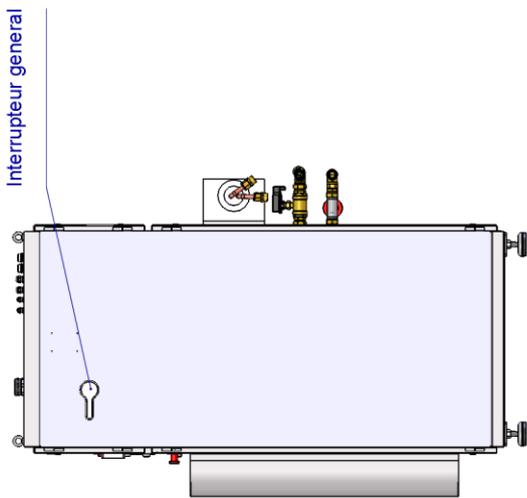
The GLP1000KSM56T400AP3IR is a continuous wave microwave generator consisting of a switch mode power supply and a power head installed in a single cabinet. The measurement of the reflected power is done using either an isolator. A PLC drives simultaneously the magnetron anodic power, electromagnet current and filament voltage. The result is a very low power setting possibility (5 kW), maximum efficiency, reduced ripple and increased magnetron life time.

SAIREM's built-in Automatic Restart Function (ARF) avoids the total shutdown of the generator during a process if accidentally the magnetron switches off.

Figure: 915 MHz, 100 kW (5 – 100 kW) continuous wave generator (single cabinet) – represented with isolator in vertical position (other options available)



REF	GLP1000KSM56T400ME2IRG3
Presentation	Switch mode power supply ($\eta > 90$). Electromagnet's supply consists of a switch mode system with current regulation. Filament supply enables soft start, voltage regulation and anti-moding function
Frequency	915 MHz \pm 10 MHz or 896 MHz \pm 10 MHz (to be specified); central frequency is imposed by the magnetron
Output power	Adjustable from 5 to 100 kW
Power stability, ripple	Better than 1 % between 5 kW and 100 kW, ripple \pm 2 % at full output power
Rise & fall times (KIP)	10 ms in standard KSM (Continuous wave) version; 1 to 3 ms if KIP (continuous wave and controlled pulse) version
HMI Display	7.5" colour touch screen digital display, all controls & functions accessible, PRO-FACE PLC, fault history...
Operating mode	Continuous wave (KSM), pulse (KIP version), plasma starting, ramp, timer, ARF system
Maximum SWR	integrated isolator, SWR = ∞ any phase, 30 kW RP (reflected power) by forward power limitation or stop by fault (to be chosen from menu)
Remote control	Analog, Profibus, Canopen or Modbus RS485
Safety interlock	Safety relay, emergency stop...
Mains	380/415 V, 50 Hz or 60 Hz, 3 phase + earth
Consumption	125 kVA at full power
Microwave output	WR975, flange CPR 975
Weight	1010kg
Water cooling	With water, 4 bars minimum, from 75l/min (capacity 50 kW) with a maxi RP of 10 kW to 130l/min (capacity 90 kW) with a maxi RP of 50kW. Provide Air/water exchanger, water temperature control&monitoring.



		sairem		12, Porte du GRAND LYON 01 707 NEYRON Cedex - FRANCE tel: 04 72 01 81 60 fax: 04 72 01 81 79 www.sairem.com	
		915MHZ 100KW GENERATOR WITH ISOLATOR			
		TITRE:		DESIGN NO.	
		FORMAT: A3		WEIGHT: 459.50	
		ECHELLE: 1:20		3339-100A	
A	28/05/12	ML	DESSINE	EMISSION ORIGINALE	
INDICE	DATE	ML	VERIFIE APPROUVE	MODIFICATION DU DESSIN	