



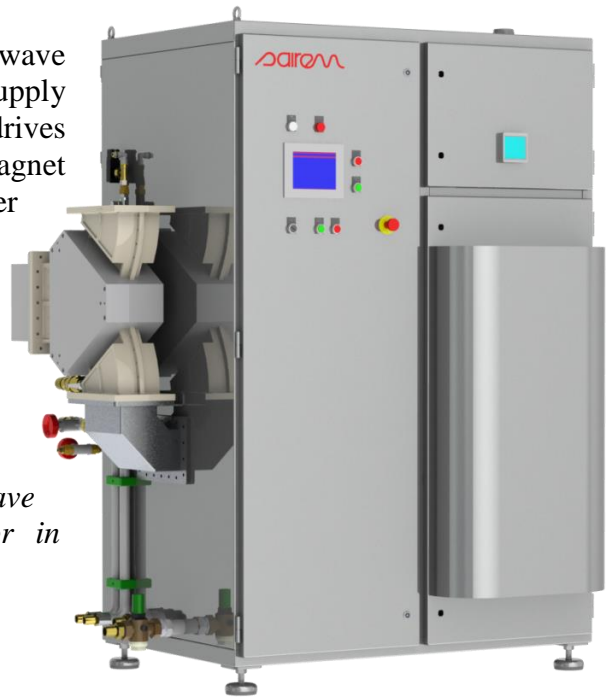
## 100 kW, 915 MHz MICROWAVE GENERATOR

**Ref: GLP1000KSM56T400ME2IRG3**

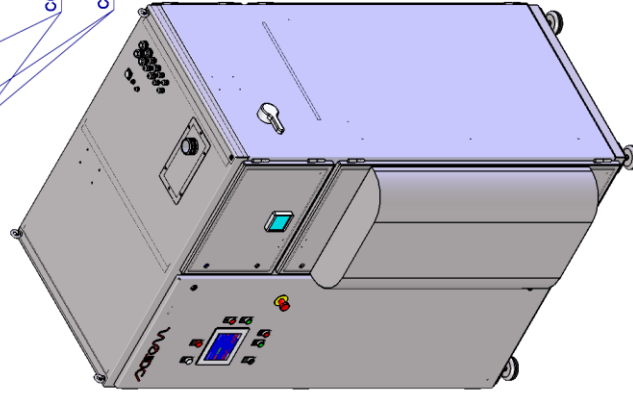
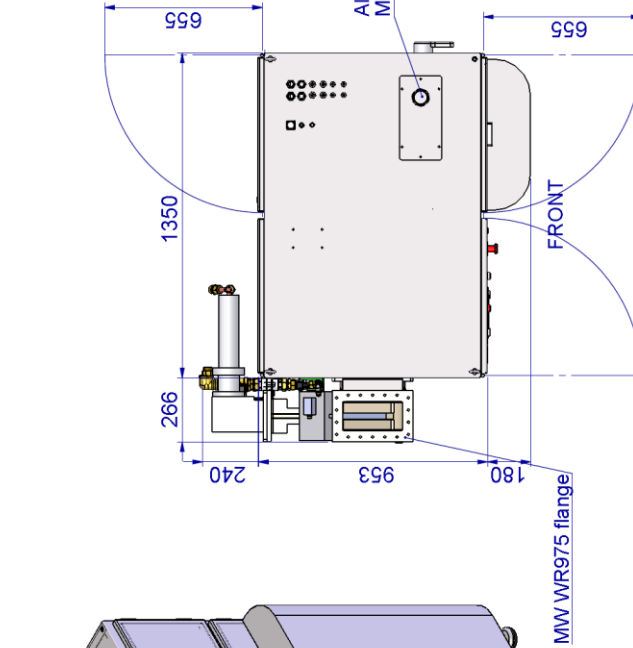
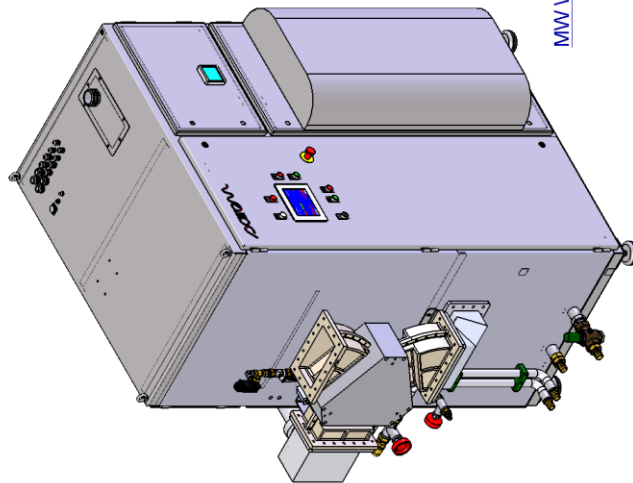
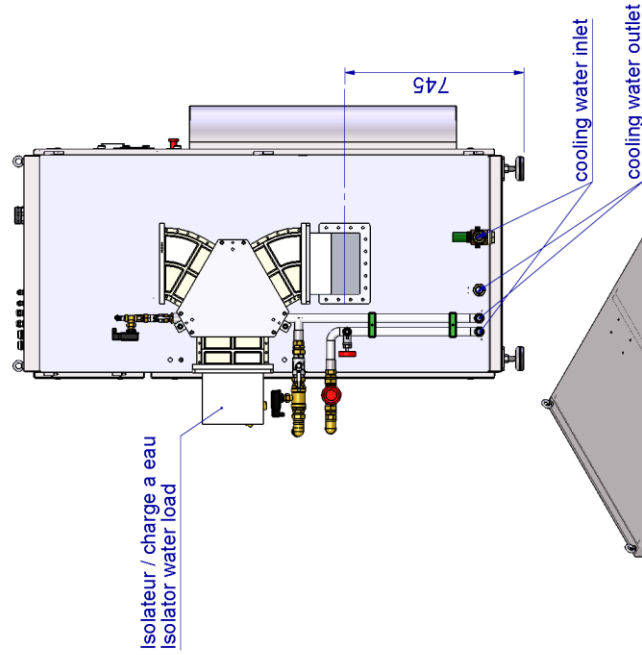
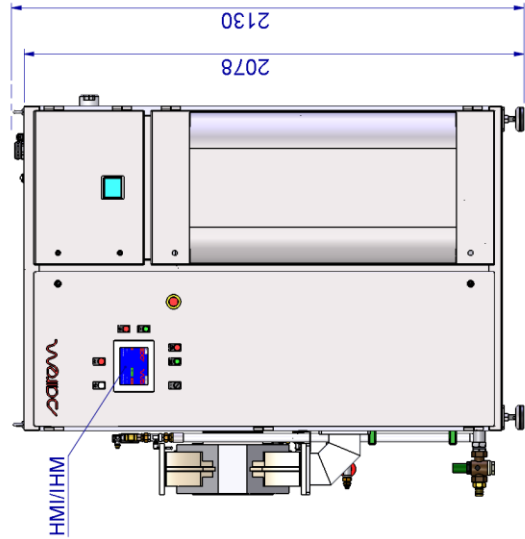
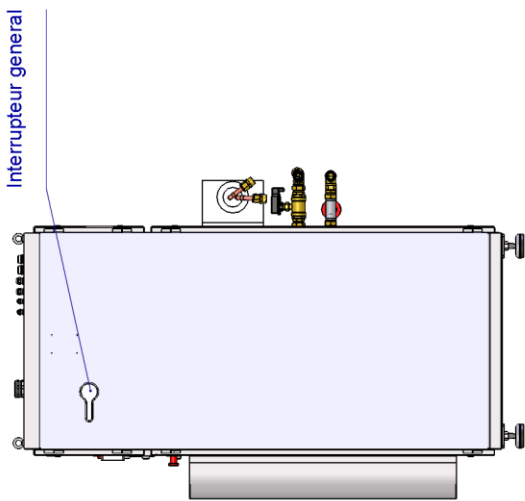
The GLP1000KSM56T400AP3IR is a continuous wave microwave generator consisting of a switch mode power supply and a power head installed in a single cabinet. A PLC drives simultaneously the magnetron anodic power, electromagnet current and filament voltage. The result is a very low power setting possibility (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 the magnetron switches off accidentally.

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



<b>REF</b>	GLP1000KSM56T400ME2IRG3
<b>Presentation</b>	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
<b>Frequency</b>	915 MHz $\pm$ 10 MHz or 896 MHz $\pm$ 10 MHz (to be specified); central frequency is imposed by the magnetron
<b>Output power</b>	Adjustable from 5 to 100 kW
<b>Power stability, ripple</b>	Better than 1 % between 5 kW and 100 kW, ripple $\pm$ 2 % at full output power
<b>Rise &amp; fall times (KIP)</b>	10 ms in standard KSM (Continuous wave) version; 1 to 3 ms if KIP (continuous wave and controlled pulse) version
<b>HMI Display</b>	7.5" colour touch screen digital display, all controls & functions accessible, PRO-FACE PLC, fault history...
<b>Operating mode</b>	Continuous wave (KSM), pulse (KIP version), plasma starting, ramp, timer, ARF system
<b>Maximum SWR</b>	integrated isolator, SWR = $\infty$ any phase, 30 kW RP (reflected power) by forward power limitation or stop by fault (to be chosen from menu)
<b>Remote control</b>	Analog, Profibus, Canopen or Modbus RS485
<b>Safety interlock</b>	Safety relay, emergency stop...
<b>Mains</b>	380/415 V, 50 Hz or 60 Hz, 3 phase + earth
<b>Consumption</b>	125 kVA at full power
<b>Microwave output</b>	WR975, flange CPR 975
<b>Weight</b>	1010kg
<b>Water cooling</b>	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.



Interrupteur general

HMI/IHM

Isolateur / charge a eau  
Isolator water load

cooling water inlet  
cooling water outlet

Alimentation generale  
Mains connection

MW WR975 flange

FRONT

					
				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	
				EMISSIION ORIGINALE MODIFICATION DU DESSIN	
A	28/05/12	ML	DESSINE	VERIFIE	APPROUVE
INDICE	DATE	ML	DESSINE	VERIFIE	APPROUVE
				TITRE: 915MHZ 100KW GENERATOR WITH ISOLATOR	
				FORMAT: A3	
				ECHELLE: 1:20	
				DESIGN NO. 3339-100A	
				WEIGHT: 459.50	