



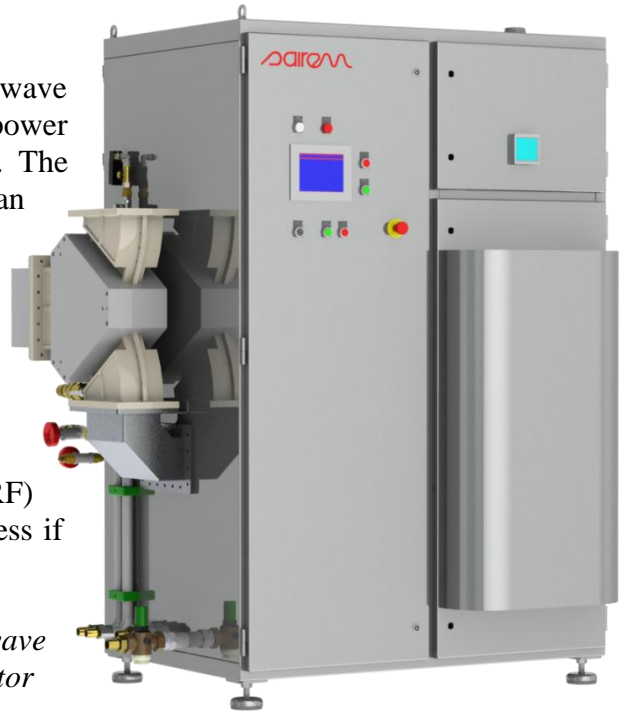
100 kW, 915 MHz MICROWAVE GENERATOR

Ref: GLP1000KSM56T400ME2IRG3

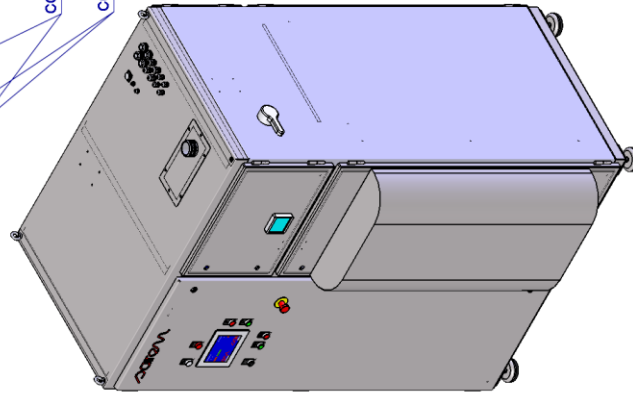
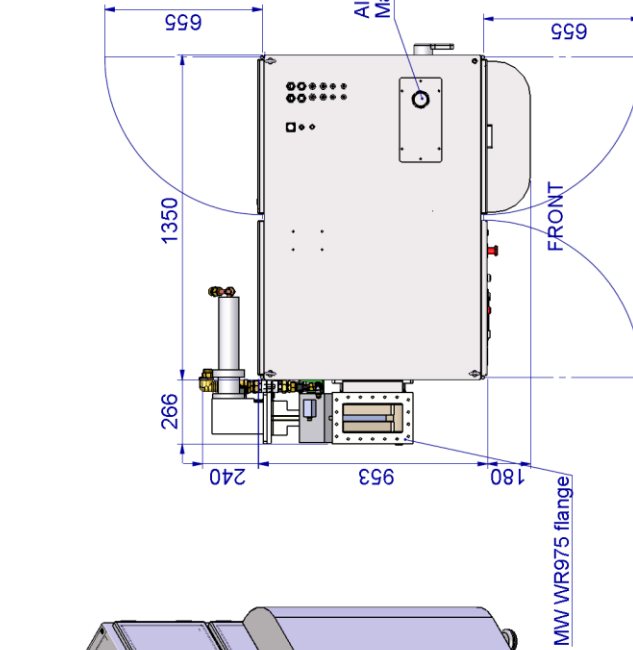
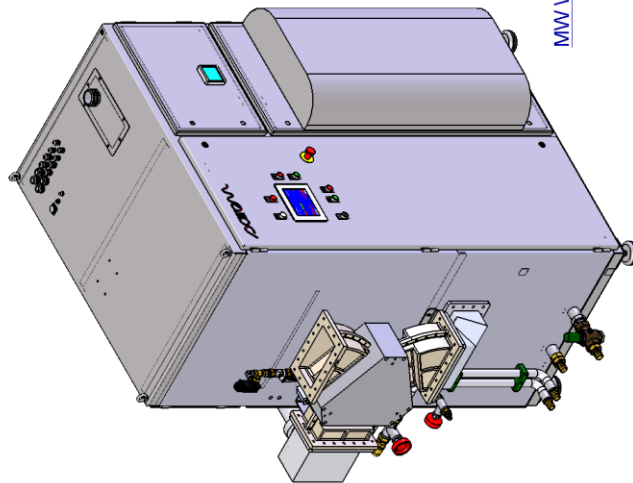
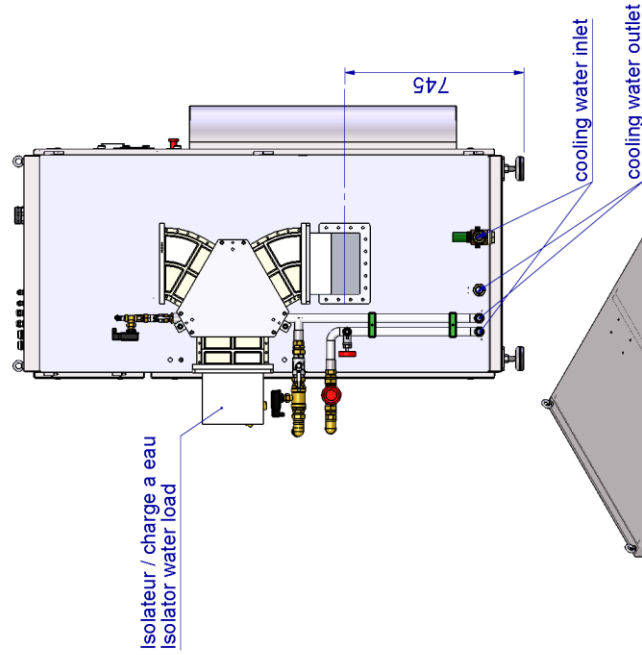
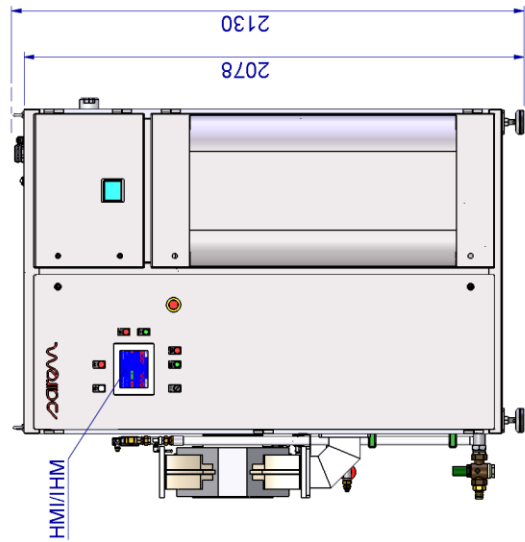
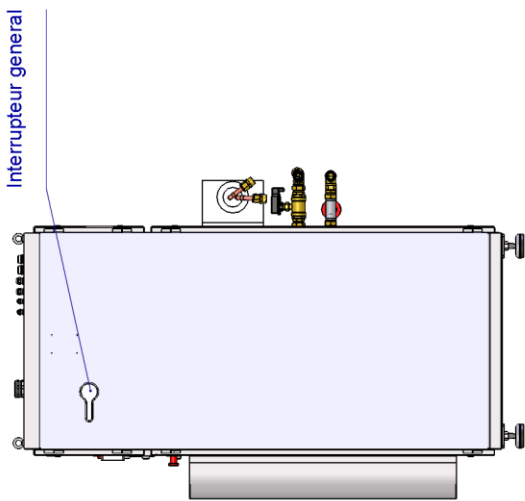
The GLP1000KSM56T400AP3IR is a continuous wave microwave generator consisting of a switch mode power supply and a power head installed in a single cabinet. The measurement of the reflected power is done using either an isolator (if ordered) or a bi-directional coupler. A PLC drives simultaneously the 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 without the isolator



| | |
|------------------------------------|---|
| REF | GLP1000KSM56T400ME2IRG3 |
| Presentation | Switch mode power supply ($\eta > 93$). 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, pulse (KIP version), plasma starting, ramp, timer, ARF system |
| Maximum SWR | integrated isolator, 30 kW RP (reflected power) any phase by forward power limitation or stop by fault (to be chosen from menu) |
| Remote control | USB, Ethernet, Canopen or Modbus |
| Safety interlock | Safety relay, emergency stop... |
| Mains | 380/415 V, 50 Hz or 60 Hz, 3 phase + earth |
| Consumption | 120 kVA at full power |
| Microwave output | WR975, flange CPR 975 |
| Weight | Power supply & power head 510kg, isolator 140 kg |
| Water cooling (max. 4 bar) | 60 L/min Air/water exchanger inside the power head, 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

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