



36 kW, 915 MHz MICROWAVE GENERATOR REF. GLP360KSM56T400ME2IR1C-Air Tight

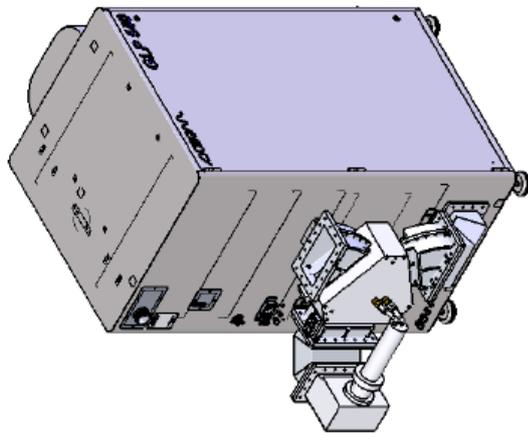
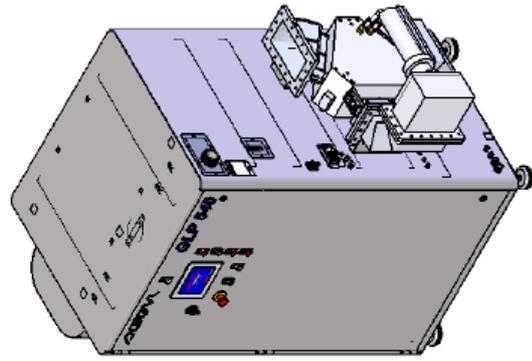
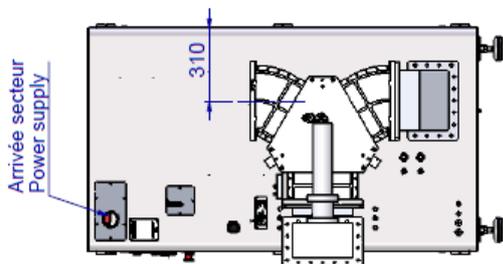
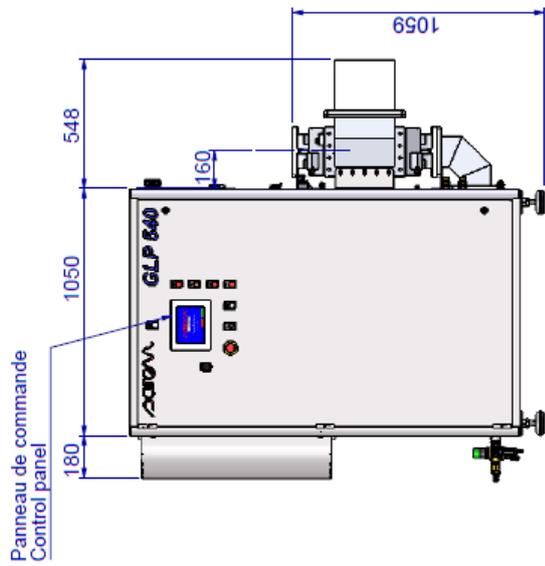
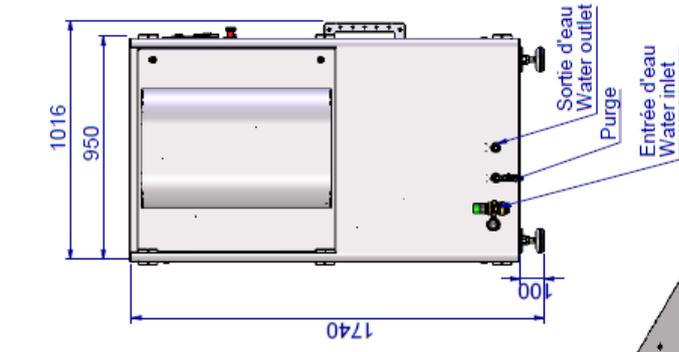
The GLP360KSM56T400ME2IR1C is a continuous wave microwave generator consisting of a switch mode HV power supply and a magnetron head installed in a single cabinet. The measurement of the reflected power is done using either an isolator (if ordered) or a bi-directional coupler. A PLC drives simultaneously the magnetron anodic power, electromagnet current and filament voltage. The result is a very low power setting possibility (3 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. All operational parameters and faults are available on the touch screen colour digital HMI. The position of the HMI can be changed depending of the customer's requirement.



***Figure:** 915 MHz, 36 kW continuous wave generator (single cabinet) – represented with isolator.
The footprint is identical to the 54kW generator.*

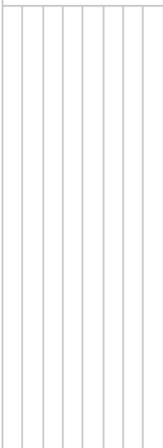
| REF | GLP360KSM56T400ME2IR1C-Air Tight |
|---------------------------|---|
| Presentation | Switch mode power supply ($\eta > 90$). Electromagnet's supply consists of a switch mode system with current regulation. Filament supply enables soft start, voltage regulation and anti-moding system, ARF (Automatic Restart 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 3 to 36 kW |
| Power stability & ripple | Stability better than 1 % between 3 kW and 36 kW, ripple \pm 2 % at full output power, even with a unstable mains. |
| Ripple | Better than 2 % between 2 and 36 kW |
| Rise and 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... Position of display cabinet adjustable (top side on the picture). |
| Operating mode | Continuous wave (KSM), pulse (KIP version), plasma starting, ramp, timer, ARF function. |
| Maximum SWR | Integrated isolator, SWR = ∞ any phase, and thermal limitation at 15 kW RP (reflected power) by forward power limitation or stop by fault (to be chosen from menu) |
| Remote control | Analogue, Profibus, CanOpen, or Modbus RS485 |
| Safety interlock | Safety relay, emergency stop... |
| Mains | 380/415 V, 50 Hz or 60 Hz, 3 phase + earth |
| Consumption | 44 kVA at full power |
| Microwave output | WR975, flange CPR 975 |
| Weight | 550 kg, (comprising isolator 140 kg) |
| Cooling | By water, temperature between 18 °C and 23 °C, 45 L/min and 4 bar, for max. 15 kW reflected power. Power capacity: 30 kW maximum. |



TITRE: MW GENERATOR 915MHz 36kW and 54kW
GLP360 / GLP540

FORMAT: A3
ECHELLE: 1:20
WEIGHT: 684,62

DESIGN NO. 3457-ENS A



| INDICE | DATE | ML | DESINE | VERIFIE | APPROUVE | EMISSION ORIGINALE | MODIFICATION DU DESSIN |
|--------|----------|----|--------|---------|----------|--------------------|------------------------|
| A | 19/12/16 | | | | | | |