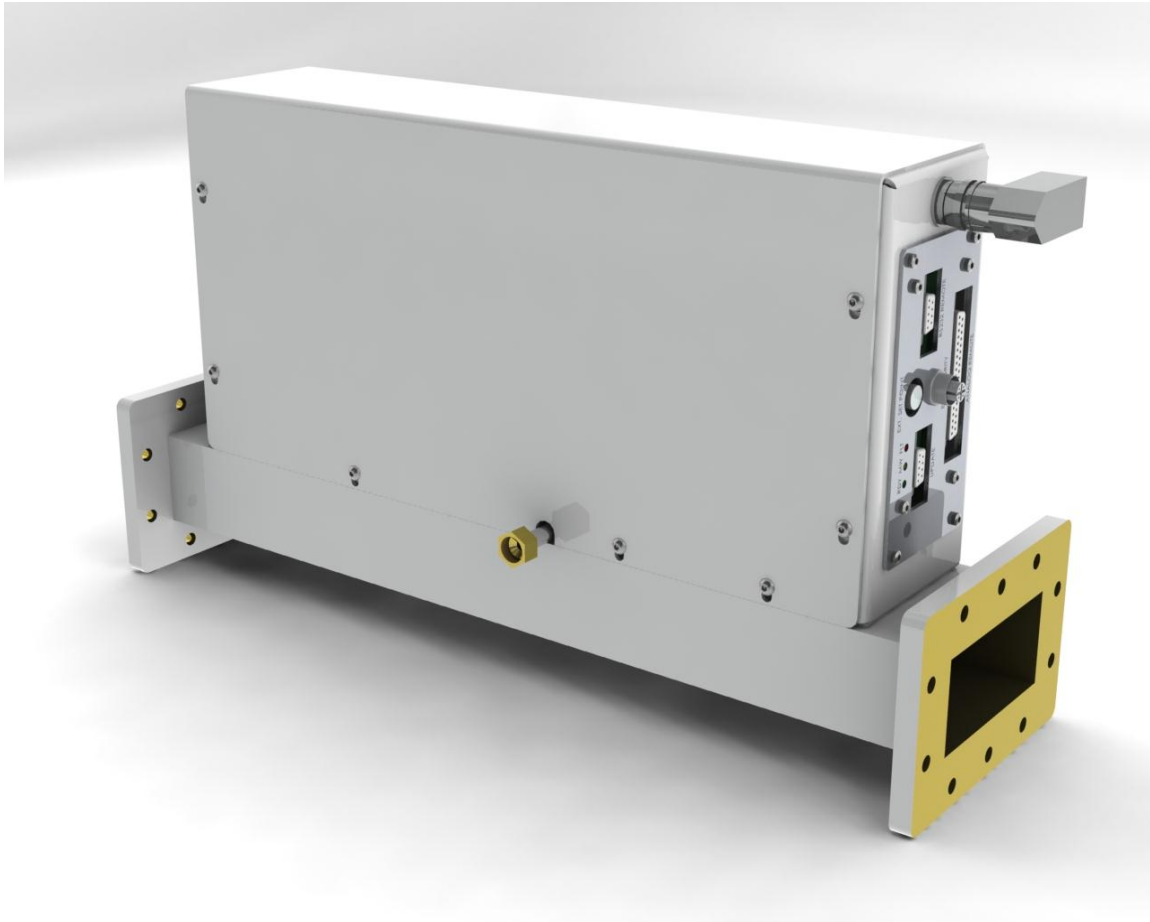




2.45 GHz 4-STUB AUTOMATIC TUNER AI 4S A 2450/340

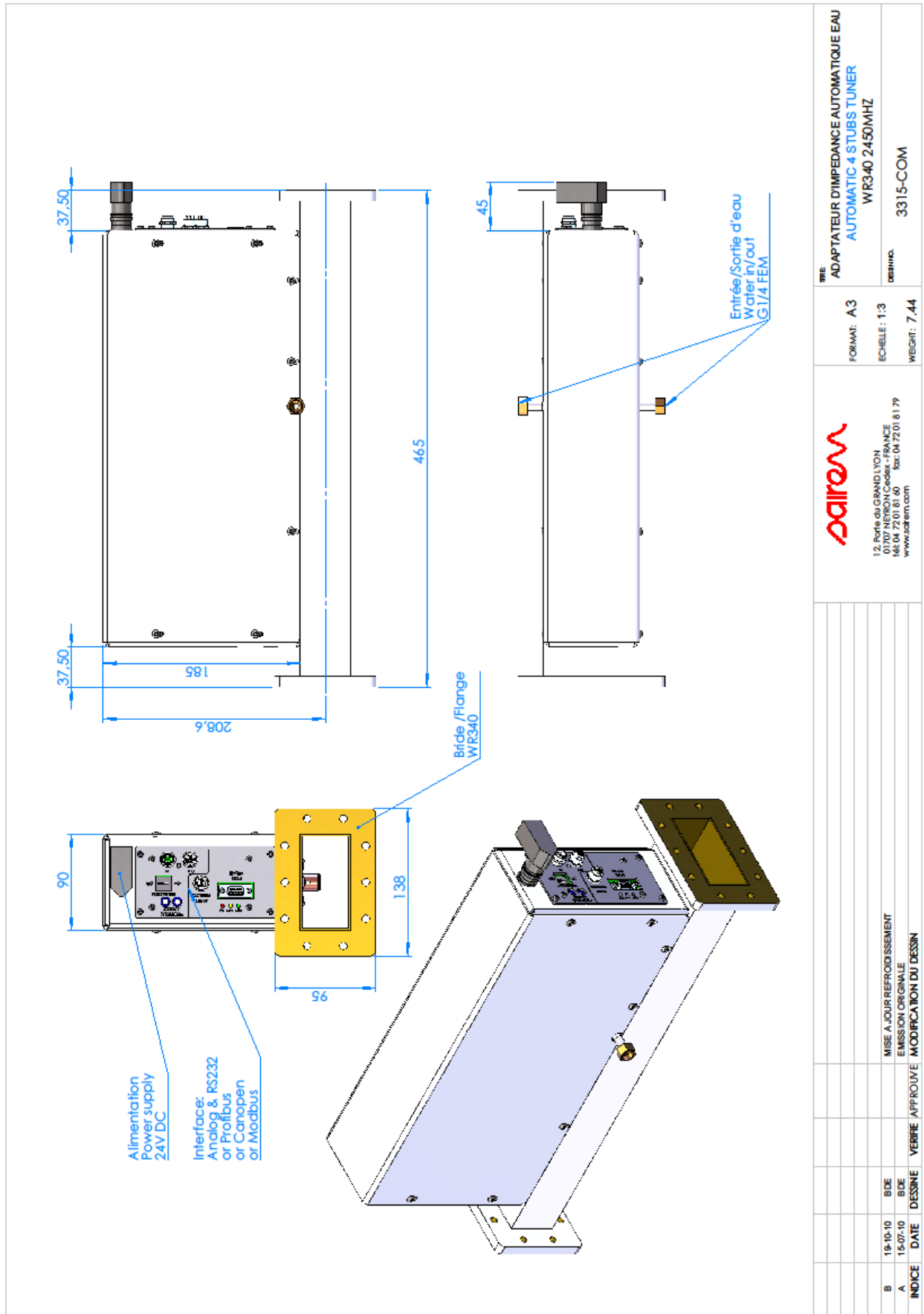


The AI4S automatic tuner contains the impedance sensors, 4 tuning stubs and the electronic control system all integrated in one waveguide. As soon as the generator delivers microwaves, the auto tuner matches instantaneously the load and maintains permanently the reflected power at zero watts.

The tuner is specially designed with an efficient water cooling system for high power applications up to 6 kW.

A control system makes possible to control the auto tuner either manually or automatically, using Labview or a PLC (programmable logic controller).

REF	AI 4S A 2450/340
Description	2 pairs of 2-stub matching system, ¼ wavelength choke, integrated sensor consists of 4 diodes, X&Y remote giving the load impedance “rho”, manual or automatic control by the external connector.
Frequency	2450 MHz ± 25 MHz
Calibration	Calibration is realized at the factory according to the generator’s power, i.e. 300 W, 1200 W, 2000 W, 3000 W and 6000 W. This power MUST be indicated on ordering.
Impedance self adjustment	SWR 4.2 max any phase. Note: for calibration at 6000 W, SWR self adjustment is limited to 2.3 max.
Response time	Maximum 4 s from the medium position of the stub to the matching point
Voltage	24 VDC, 1.5 A
Wave guide	WR340
Weight	7.6 kg
Size	Length between flanges 465 mm, height above guide 185 mm, width above guide 90 mm
Material	Waveguide in brass, stubs in copper.
Cooling	Water 1 l/min, necessary above 2 kW, waveguide temperature controller
Remote control	Modbus RS232 or Profibus or Canopen



		SAIREM		12 Porte du GRAND LYON, 01702 NEYRON Cedex - FRANCE tel: 04 72 01 81 60 fax: 04 72 01 81 79 www.sairem.com	
		TRE ADAPTATEUR D'IMPEDANCE AUTOMATIQUE EAU AUTOMATIC 4 STUBS TUNER WR340 2450MHZ	FORMAT: A3 ECHELLE: 1:3 WEIGHT: 7.44		
				MISE A JOUR REPRODUCTION EMISSION ORIGINALE MODIFICATION DU DESSIN	
B	19-10-10	BDE			
A	15-07-10	BDE			
INDEXE	DATE	DESSINE	VERBEE	APPROUVE	INDICE