

## Genius HF-C MK2 RF 80 kW

## Radiographic/Fluoroscopic 80 kW high frequency generator

## Product Data

### Radiological features

80 kW		
0,001 ÷ 6 s according to R'10 scale (36 steps)		
40 ÷ 150 kV in 1 kV step		
40 ÷ 125 kV in 1 kV step		
10 ÷ 800 mA according to R'10 scale (31 steps)		
10 ÷ 1000 mA according to R'10 scale (32 steps) in option		
0.5 ÷ 5 mA		
80 kV 800 mA standard, 1000 mA in option		
100 kV 800 mA		
126 kV 630 mA		
150 kV 500 mA		
150 kV 400 mA		
0.4 ÷ 800 mAs according to R'10 scale		
Less than ± 5%		
Less than ± 10%		
Less than ±15%		
±1%		
64 kHz		
100 kHz in burst mode (intermittent) for low load applications		
< 5%		
Max 1.5 ms up to 75% of kV value		
3 + direct exposure		
1		
Normal speed (standard)		
High speed (optional)		



### **Functionality**

<ul> <li>3 points (kV, mA, s)</li> <li>2 points (kV, mAs)</li> <li>AEC technique (option), with possibility to select 1 point technique (kV) or 2 point technique (kV, mA)</li> <li>0 point using transfer tables that allow the automatic kV and mA setting according to the last kV value used in fluoroscopy</li> </ul>	
432 programs (8 anatomic levels, 3 memory banks for each anatomic level, 6 programs for each memory bank, 3 patient sizes)	
Automatic selection of tomographic times with Villa remote control tables (4 angles, 2 speeds)	
<ul> <li>With 1Kx1K TV chains. The operator can adjust from generator console the frame rate from 1 to 30 fps. Fluoro current can be selected during system setup among 40/60/80/100 mA</li> <li>With DIVA-HDE and DRF digital acquisition systems, the frame rate can be adjusted by the operator from digital system console.</li> </ul>	
Automatic, depending on tube load	
mA self-calibration during each exposure	
Automatic or manual kV/mA adjustment	
Maximum load, thermal load of anode, anode rotation, tube thermal switch, filament over-heating, maximum voltage protection	
12" touch screen console with display of every operating parameter and message of anomalies	
<ul> <li>From console</li> <li>From an external PC with dedicated software, linked to the processor via USB connection</li> </ul>	
Italian, English, French, Spanish, German, Greek, Cyrillic	
Manual or automatic selection of 2 focus	
Real time calculation and display of anode load (absolute anode thermal load in kJ and in percentage of maximum load)	
RS 232 serial port for the automatic selection of exposure parameters with DRF and VDX digital systems only	



AEC (option)

Number of receptors	Up to 2
Measuring chamber	3 fields, semiconductor chamber or ionization chamber
Screen-film combination	3 choices
Film darkening adjustment	7 steps

Integrated DAP meter (option)

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Type	Ionization chamber	
Number of ionization chambers	1	
Parameters display	The following parameters are visualized on the generator display:  - Date and time  - Exposure parameters (kV, mA, mAs, cumulated time of sequence, number of exposures in the sequence)  - Dose-Area Product (mGy cm²) (actual exposure)  - Total dose from last print out	
Printer	Option. It allows to print the displayed parameters (Dose-Area Product, kV, mA, sec, number of runs, date and time, anatomic program name, exposure technique, user's input string) on labels	

#### **Electrical characteristics**

Electificat cital acteristics		
Three-phase 400 Vac ± 10%		
50-60 Hz		
≤ 0,13 Ohm		
Automatic		
With 20 m cable		
208 A		
108 kW active, 144 kVA apparent		
	50-60 Hz  ≤ 0,13 Ohm  Automatic  With 20 m cable  208 A	

# Mechanical characteristics

	DIMENSIONS	WEIGHT	
Electrical cabinet	LS Starter Version:	75 kg	
	500 x 350 x 890 mm (LxDxH)		
	HS Starter Version:	85 kg	
	500 x 350 x 1100 mm (LxDxH)		
HT transformer	Integrated in the cabinet	Integrated in the cabinet	
12" touch screen console	360 x 360 x 125 mm	5,2 kg	



#### **Environmental conditions**

Operating conditions	Temperature:	from +10° to +40° Celsius
	Humidity:	from 30% to 75%
	Pressure:	from 700 hPa to 1060 hPa
Conditions for transport and	Temperature:	from -20° to +70° Celsius
storage	Humidity:	≤ 95% non condensing
	Pressure:	> 630 hPa

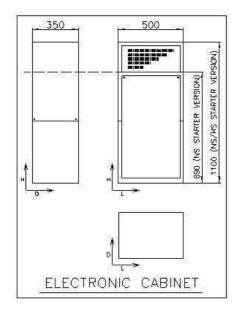
### Standards and regulations

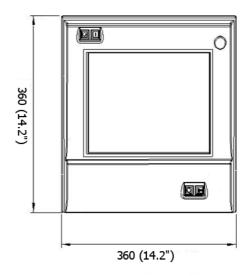


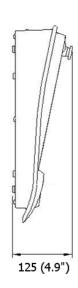
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CE symbol grants the product compliance to the European Directive for Medical Devices 93/42/EEC and its revised versions as a class IIB device

### Dimensions (in mm)







Electronic cabinet

12" touch screen console

Note: Products are continuously under review in the light of technical advancement. The actual specification may therefore be subject to improvement or modification without notice.

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